

2021 Index

IEEE Transactions on Systems, Man, and Cybernetics: Systems Vol. 51

This index covers all technical items—papers, correspondence, reviews, etc.—that appeared in this periodical during 2021, and items from previous years that were commented upon or corrected in 2021. Departments and other items may also be covered if they have been judged to have archival value.

The Author Index contains the primary entry for each item, listed under the first author's name. The primary entry includes the coauthors' names, the title of the paper or other item, and its location, specified by the publication abbreviation, year, month, and inclusive pagination. The Subject Index contains entries describing the item under all appropriate subject headings, plus the first author's name, the publication abbreviation, month, and year, and inclusive pages. Note that the item title is found only under the primary entry in the Author Index.

Author Index

A

- Abdel-Aty, M.**, *see* Wei, R., *TSMC June 2021 3587-3598*
- Abdel-Aty, M.**, *see* Lin, L., *TSMC June 2021 3565-3574*
- Abdollahi, F.**, *see* Rezaee, H., *TSMC Oct. 2021 6435-6444*
- Abidi, K.**, *see* Teo, T.T., *TSMC Jan. 2021 650-658*
- Agarwal, R.K.**, *see* Kim, S., *TSMC Feb. 2021 705-711*
- Agarwal, R.K.**, *see* Li, L., *TSMC May 2021 3304-3316*
- Aggarwal, M.**, Modeling a Decision-Maker's Choice Behavior Through Perceived Values; *TSMC March 2021 1933-1944*
- Aghababa, M.P.**, Twofold Sliding Controller Design for Uncertain Switched Nonlinear Systems; *TSMC Feb. 2021 1203-1214*
- Aghababa, M.P.**, Lyapunov Control Method for Mismatched Uncertainty and Gain Variation Compensation in Switched Systems; *TSMC July 2021 4227-4237*
- Agrawal, R.K.**, *see* Gupta, A., *TSMC May 2021 3080-3092*
- Ahmad, U.**, *see* Shen, H., *TSMC Dec. 2021 7497-7509*
- Ahmed, S.**, Wang, H., and Tian, Y., Adaptive High-Order Terminal Sliding Mode Control Based on Time Delay Estimation for the Robotic Manipulators With Backlash Hysteresis; *TSMC Feb. 2021 1128-1137*
- Ahn, C.K.**, *see* Li, S., *TSMC Feb. 2021 1075-1084*
- Ahn, C.K.**, *see* Fei, Z., *TSMC Feb. 2021 712-720*
- Ahn, C.K.**, *see* Kim, S., *TSMC Feb. 2021 705-711*
- Ahn, C.K.**, *see* Xu, Y., *TSMC March 2021 1642-1651*
- Ahn, C.K.**, *see* Kim, S., *TSMC March 2021 1582-1589*
- Ahn, C.K.**, *see* Razaq, M.A., *TSMC March 2021 1485-1495*
- Ahn, C.K.**, *see* Zhao, Z., *TSMC April 2021 2382-2390*
- Ahn, C.K.**, *see* Zhang, L., *TSMC April 2021 2370-2381*
- Ahn, C.K.**, *see* Sun, H., *TSMC May 2021 3111-3124*
- Ahn, C.K.**, *see* Du, P., *TSMC May 2021 3136-3147*
- Ahn, C.K.**, *see* Li, L., *TSMC May 2021 3304-3316*
- Ahn, C.K.**, *see* Song, X., *TSMC June 2021 3650-3661*
- Ahn, C.K.**, *see* Kim, S., *TSMC July 2021 4599-4605*
- Ahn, C.K.**, *see* Zhao, Z., *TSMC Aug. 2021 4650-4658*
- Ahn, C.K.**, *see* Qi, W., *TSMC Sept. 2021 5446-5455*
- Ahn, C.K.**, *see* Li, S., *TSMC Sept. 2021 5437-5445*
- Ahn, C.K.**, *see* Rehman, A.u., *TSMC Nov. 2021 7040-7050*
- Ahn, C.K.**, *see* Li, J., *TSMC Dec. 2021 7486-7496*
- Ahn, C.K.**, *see* Shen, M., *TSMC Dec. 2021 7633-7643*
- Ahuja, K.**, *see* Gautam, C., *TSMC March 2021 1917-1932*
- Aissa, Y.B.**, Bachir, A., Khalgui, M., Koubaa, A., Li, Z., and Qu, T., On Feasibility of Multichannel Reconfigurable Wireless Sensor Networks Under Real-Time and Energy Constraints; *TSMC March 2021 1446-1461*
- Aizpurua, J.I.**, Catterson, V.M., Stewart, B.G., McArthur, S.D.J., Lambert, B., and Cross, J.G., Uncertainty-Aware Fusion of Probabilistic Classifiers for Improved Transformer Diagnostics; *TSMC Jan. 2021 621-633*
- Akmandor, A.O.**, Dai, X., and Jha, N.K., YSUY: Your Smartphone Understands You—Using Machine Learning to Address Fundamental Human Needs; *TSMC Dec. 2021 7553-7568*
- Al-Juboori, U.A.**, *see* Lin, L., *TSMC June 2021 3565-3574*
- Al-Mahasneh, A.J.**, Anavatti, S.G., Garratt, M.A., and Pratama, M., Stable Adaptive Controller Based on Generalized Regression Neural Networks and Sliding Mode Control for a Class of Nonlinear Time-Varying Systems; *TSMC April 2021 2525-2535*
- Alam, S.**, *see* Cai, Q., *TSMC Oct. 2021 6244-6257*
- Albin, S.L.**, *see* Tavakkol, B., *TSMC March 2021 1690-1703*
- Alsaadi, F.E.**, *see* Cui, Y., *TSMC Jan. 2021 561-573*
- Alsaadi, F.E.**, *see* Yang, C., *TSMC Jan. 2021 370-377*
- Alsaadi, F.E.**, *see* Ma, L., *TSMC Nov. 2021 6614-6625*
- Ames, A.D.**, *see* Azimi, V., *TSMC Feb. 2021 1174-1191*
- Amini, A.**, Asif, A., and Mohammadi, A., RQ-CEASE: A Resilient Quantized Collaborative Event-Triggered Average-Consensus Sampled-Data Framework Under Denial of Service Attack; *TSMC Nov. 2021 7027-7039*
- An, B.**, *see* Jiang, J., *TSMC July 2021 4417-4432*
- An, H.**, *see* Shih, C., *TSMC May 2021 3240-3250*
- An, J.**, *see* Wan, X., *TSMC Oct. 2021 6445-6456*
- An, X.**, *see* Li, S., *TSMC Aug. 2021 4814-4824*
- Anagnostopoulos, D.**, *see* Kapos, G., *TSMC June 2021 3330-3345*
- Anavatti, S.G.**, *see* Santoso, F., *TSMC March 2021 1817-1829*
- Anavatti, S.G.**, *see* Al-Mahasneh, A.J., *TSMC April 2021 2525-2535*
- Anavatti, S.G.**, *see* Santoso, F., *TSMC Sept. 2021 5664-5673*
- Andersen, P.**, *see* Sharma, J., *TSMC Dec. 2021 7363-7381*
- Anderson, B.D.O.**, *see* Sun, Z., *TSMC July 2021 4308-4320*
- Anderson, C.W.**, *see* Barto, A.G., *TSMC Jan. 2021 40-50*
- Andreu-Perez, J.**, *see* Gupta, A., *TSMC May 2021 3080-3092*
- Aouaidjia, K.**, Sheng, B., Li, P., Kim, J., and Feng, D.D., Efficient Body Motion Quantification and Similarity Evaluation Using 3-D Joints Skeleton Coordinates; *TSMC May 2021 2774-2788*
- Araujo, R.F.**, Torres, L.A.B., and Palhares, R.M., Distributed Control of Networked Nonlinear Systems via Interconnected Takagi-Sugeno Fuzzy Systems With Nonlinear Consequent; *TSMC Aug. 2021 4858-4867*
- Asadi, H.**, *see* Qazani, M.R.C., *TSMC Oct. 2021 6096-6110*
- Asif, A.**, *see* Amini, A., *TSMC Nov. 2021 7027-7039*
- Azimi, V.**, Shu, T., Zhao, H., Gehlhar, R., Simon, D., and Ames, A.D., Model-Based Adaptive Control of Transfemoral Prostheses: Theory, Simulation, and Experiments; *TSMC Feb. 2021 1174-1191*

B

- Bachir, A.**, *see* Aissa, Y.B., *TSMC March 2021 1446-1461*
- Bai, W.**, *see* Sun, W., *TSMC March 2021 1496-1506*
- Bai, X.**, *see* Jin, D., *TSMC July 2021 4365-4378*
- Baldi, S.**, *see* Lv, M., *TSMC Feb. 2021 1035-1045*
- Baldi, S.**, *see* Lv, M., *TSMC Aug. 2021 4936-4942*
- Bao, A.**, *see* Wang, X., *TSMC Sept. 2021 5918-5928*
- Bao, J.**, Wang, H., Liu, P.X., and Cheng, C., Fuzzy Finite-Time Tracking Control for a Class of Nonaffine Nonlinear Systems With Unknown Dead Zones; *TSMC Jan. 2021 452-463*
- Bao, Z.**, *see* Li, X., *TSMC Dec. 2021 7517-7529*
- Barto, A.G.**, Sutton, R.S., and Anderson, C.W., Looking Back on the Actor-Critic Architecture; *TSMC Jan. 2021 40-50*
- Batmani, Y.**, and Najafi, S., Event-Triggered H_∞ Depth Control of Remotely Operated Underwater Vehicles; *TSMC Feb. 2021 1224-1232*

Behera, L., see Dutta, S., *TSMC Jan. 2021* 659-672
Bennoui, H., see Mancera, S., *TSMC June 2021* 3380-3391
Berthoud, L., see Gregory, J., *TSMC Nov. 2021* 6946-6961
Bezdek, J.C., and Keller, J.M., Streaming Data Analysis: Clustering or Classification?; *TSMC Jan. 2021* 91-102
Bhandari, A.K., Singh, A., and Kumar, I.V., Spatial Context Energy Curve-Based Multilevel 3-D Otsu Algorithm for Image Segmentation; *TSMC May 2021* 2760-2773
Blaabjerg, F., see Qu, M., *TSMC April 2021* 2145-2158
Blazic, S., see Klancar, G., *TSMC Aug. 2021* 4868-4882
Bo, Y., see Liu, L., *TSMC Nov. 2021* 6863-6873
Brown, L.J., see Hashim, H.A., *TSMC May 2021* 2949-2962
Bu, Z., see Jiang, J., *TSMC July 2021* 4417-4432

C

Cabrerizo, F.J., see Herrera-Viedma, E., *TSMC Jan. 2021* 191-208
Cabrerizo, F.J., see Xu, Y., *TSMC June 2021* 3498-3511
Cai, B., see Zhang, T., *TSMC Feb. 2021* 1004-1014
Cai, B., Yang, J., Yuan, S., Shi, Y., and Zhang, L., Estimation for Fuzzy Semi-Markov Jump Systems With Indirectly Accessible Mode Information and Nonideal Data Transmission; *TSMC July 2021* 4016-4027
Cai, C., see Ma, L., *TSMC Nov. 2021* 6614-6625
Cai, J., see Yuan, J., *TSMC Jan. 2021* 354-369
Cai, J., see Yuan, J., *TSMC May 2021* 2963-2979
Cai, L., see Qu, Y., *TSMC July 2021* 4183-4192
Cai, M., Wang, S., Wang, Y., Wang, R., and Tan, M., Coordinated Control of Underwater Biomimetic Vehicle-Manipulator System for Free Floating Autonomous Manipulation; *TSMC Aug. 2021* 4793-4803
Cai, M., Wang, Y., Wang, S., Wang, R., Cheng, L., and Tan, M., Prediction-Based Seabed Terrain Following Control for an Underwater Vehicle-Manipulator System; *TSMC Aug. 2021* 4751-4760
Cai, M., see Yuan, W., *TSMC Sept. 2021* 5600-5611
Cai, Q., see Xie, K., *TSMC May 2021* 2653-2664
Cai, Q., see Yang, Y., *TSMC Sept. 2021* 5800-5808
Cai, Q., Alam, S., Pratama, M., and Liu, J., Robustness Evaluation of Multipartite Complex Networks Based on Percolation Theory; *TSMC Oct. 2021* 6244-6257
Cai, Y., Zhang, H., Duan, J., and Zhang, J., Distributed Bipartite Consensus of Linear Multiagent Systems Based on Event-Triggered Output Feedback Control Scheme; *TSMC Nov. 2021* 6743-6756
Cao, J., see Yang, C., *TSMC Jan. 2021* 370-377
Cao, J., see Wang, Z., *TSMC Feb. 2021* 1267-1277
Cao, J., see Qi, W., *TSMC Feb. 2021* 775-785
Cao, J., see Xu, S., *TSMC June 2021* 3617-3628
Cao, J., see Shen, H., *TSMC June 2021* 3608-3616
Cao, J., see Wei, R., *TSMC June 2021* 3587-3598
Cao, J., see Lin, L., *TSMC June 2021* 3565-3574
Cao, J., see Xu, W., *TSMC June 2021* 3541-3551
Cao, J., see Lu, J., *TSMC June 2021* 3867-3875
Cao, J., Manivannan, R., Chong, K.T., and Lv, X., Extended Dissipativity Performance of High-Speed Train Including Actuator Faults and Probabilistic Time-Delays Under Resilient Reliable Control; *TSMC June 2021* 3808-3819
Cao, J., see Jiang, J., *TSMC July 2021* 4417-4432
Cao, J., see Shen, H., *TSMC Sept. 2021* 5535-5546
Cao, J., see Qi, W., *TSMC Sept. 2021* 5446-5455
Cao, J., see Liu, J., *TSMC Oct. 2021* 6544-6554
Cao, J., see He, J., *TSMC Nov. 2021* 6842-6851
Cao, J., see Wang, J., *TSMC Dec. 2021* 7579-7586
Cao, L., Zhou, Q., Dong, G., and Li, H., Observer-Based Adaptive Event-Triggered Control for Nonstrict-Feedback Nonlinear Systems With Output Constraint and Actuator Failures; *TSMC March 2021* 1380-1391
Cao, L., see Xiao, B., *TSMC May 2021* 2751-2759
Cao, L., Li, H., Dong, G., and Lu, R., Event-Triggered Control for Multiagent Systems With Sensor Faults and Input Saturation; *TSMC June 2021* 3855-3866
Cao, M., Wu, J., Chiclana, F., Urena, R., and Herrera-Viedma, E., A Personalized Consensus Feedback Mechanism Based on Maximum Harmony Degree; *TSMC Oct. 2021* 6134-6146
Cao, S., see Liu, Y., *TSMC Aug. 2021* 4716-4728
Cao, W., see Leng, J., *TSMC Jan. 2021* 237-252
Cao, W., see Wu, M., *TSMC March 2021* 1473-1484
Cao, X., see Mo, L., *TSMC Oct. 2021* 6404-6413
Cao, Y., Jiang, T., Kaiwartya, O., Sun, H., Zhou, H., and Wang, R., Toward Pre-empted EV Charging Recommendation Through V2V-Based Reservation System; *TSMC May 2021* 3026-3039
Cao, Y., see Tang, S., *TSMC Aug. 2021* 4895-4910
Cao, Z., Niu, Y., and Zou, Y., Adaptive Neural Sliding Mode Control for Singular Semi-Markovian Jump Systems Against Actuator Attacks; *TSMC March 2021* 1523-1533
Cao, Z., see Pang, L., *TSMC April 2021* 2342-2354
Cao, Z., see Liu, Z., *TSMC May 2021* 3193-3204
Cao, Z., Zhang, Y., Guan, J., Zhous, S., and Wen, G., A Chaotic Ant Colony Optimized Link Prediction Algorithm; *TSMC Sept. 2021* 5274-5288
Cao, Z., Niu, Y., Lam, J., and Song, X., A Hybrid Sliding Mode Control Scheme of Markovian Jump Systems via Transition Rates Optimal Design; *TSMC Dec. 2021* 7752-7763
Cardoso, J.S., see Ferreira, P.M., *TSMC Sept. 2021* 5830-5845
Catterson, V.M., see Aizpurua, J.I., *TSMC Jan. 2021* 621-633
Chai, H., see Pang, L., *TSMC April 2021* 2342-2354
Chandra, S., see Sharma, S., *TSMC Feb. 2021* 987-1003
Chang, L., see Zhou, Z., *TSMC Aug. 2021* 4944-4958
Chang, S., Wang, Y., and Zuo, Z., Fixed-Time Active Disturbance Rejection Control and Its Application to Wheeled Mobile Robots; *TSMC Nov. 2021* 7120-7130
Chang, X., see Li, Z., *TSMC June 2021* 3820-3831
Che, W., see Deng, C., *TSMC Sept. 2021* 5456-5465
Chen, B., see Liu, Z., *TSMC April 2021* 2322-2331
Chen, B., see Liu, X., *TSMC May 2021* 3093-3102
Chen, B., Xing, L., Zhao, H., Du, S., and Principe, J.C., Effects of Outliers on the Maximum Correntropy Estimation: A Robustness Analysis; *TSMC June 2021* 4007-4012
Chen, B., see Hwang, C., *TSMC Sept. 2021* 5674-5685
Chen, B., Dang, L., Gu, Y., Zheng, N., and Principe, J.C., Minimum Error Entropy Kalman Filter; *TSMC Sept. 2021* 5819-5829
Chen, B., see Xiang, B., *TSMC Oct. 2021* 6381-6387
Chen, C., see Liu, D., *TSMC June 2021* 3759-3770
Chen, C.L.P., see Tunstel, E., *TSMC Jan. 2021* 5-21
Chen, C.L.P., see Liu, Z., *TSMC Jan. 2021* 209-222
Chen, D., see Hu, J., *TSMC May 2021* 3217-3228
Chen, E., see Jin, B., *TSMC May 2021* 3068-3079
Chen, E., see Zhang, K., *TSMC June 2021* 3781-3795
Chen, G., see Wang, Q., *TSMC Jan. 2021* 412-419
Chen, G., see Liu, H., *TSMC Feb. 2021* 786-796
Chen, G., see Hao, Y., *TSMC March 2021* 1757-1765
Chen, G., see Lin, C., *TSMC May 2021* 2926-2936
Chen, G., see Li, H., *TSMC Aug. 2021* 5153-5164
Chen, G.R., see Gao, Z., *TSMC Nov. 2021* 7143-7151
Chen, H., Wu, G., Pedrycz, W., Suganthan, P.N., Xing, L., and Zhu, X., An Adaptive Resource Allocation Strategy for Objective Space Partition-Based Multiobjective Optimization; *TSMC March 2021* 1507-1522
Chen, H., Cheng, R., Pedrycz, W., and Jin, Y., Solving Many-Objective Optimization Problems via Multistage Evolutionary Search; *TSMC June 2021* 3552-3564
Chen, H., Wu, N., Li, Z., and Qu, T., Decision on Maximal Permissiveness of Linear Constraints via Structural Analysis of a Subclass of Petri Nets; *TSMC July 2021* 4347-4358
Chen, H., see Liu, Q., *TSMC Aug. 2021* 4639-4649
Chen, H., see Liu, Y., *TSMC Oct. 2021* 6414-6422
Chen, J., see Zhang, X., *TSMC Feb. 2021* 1138-1148
Chen, J., see Gao, H., *TSMC March 2021* 1844-1854
Chen, J., see Sun, H., *TSMC May 2021* 3004-3013

- Chen, J.**, and Qiao, H., Muscle-Synergies-Based Neuromuscular Control for Motion Learning and Generalization of a Musculoskeletal System; *TSMC June 2021* 3993-4006
- Chen, J.**, Zhang, J., Xu, X., Fu, C., Zhang, D., Zhang, Q., and Xuan, Q., E-LSTM-D: A Deep Learning Framework for Dynamic Network Link Prediction; *TSMC June 2021* 3699-3712
- Chen, J.**, see Wang, Q., *TSMC July 2021* 4588-4598
- Chen, J.**, see Zhang, K., *TSMC Nov. 2021* 7191-7200
- Chen, K.**, see Wei, L., *TSMC April 2021* 2611-2623
- Chen, L.**, see Wu, M., *TSMC March 2021* 1473-1484
- Chen, L.**, see Lin, C., *TSMC May 2021* 2926-2936
- Chen, L.**, and Liu, J., Time-Efficient Indoor Navigation and Evacuation With Fastest Path Planning Based on Internet of Things Technologies; *TSMC May 2021* 3125-3135
- Chen, L.**, Yu, X., Xin, X., and Sun, C., Characteristic Model-Based Control Approach for Complex Network Systems; *TSMC June 2021* 3599-3607
- Chen, L.**, see Wang, J., *TSMC July 2021* 4078-4090
- Chen, L.**, see Liu, Z., *TSMC July 2021* 4217-4226
- Chen, L.**, Yu, X., and Sun, C., Characteristic Modeling Approach for High-Order Linear Dynamical Systems; *TSMC Sept. 2021* 5405-5413
- Chen, L.**, see Yang, L., *TSMC Oct. 2021* 6319-6329
- Chen, M.**, and Sun, J., Input-Output Finite-Time Reliable Static Output Control of Time-Varying System With Input Delay; *TSMC Feb. 2021* 1334-1344
- Chen, M.**, see Shao, S., *TSMC Feb. 2021* 742-754
- Chen, M.**, Xiong, S., and Wu, Q., Tracking Flight Control of Quadrotor Based on Disturbance Observer; *TSMC March 2021* 1414-1423
- Chen, M.**, see Li, Y., *TSMC Oct. 2021* 6040-6049
- Chen, Q.**, see Xu, C., *TSMC Feb. 2021* 954-964
- Chen, Q.**, see Liu, C., *TSMC April 2021* 2332-2341
- Chen, Q.**, see Wang, Z., *TSMC May 2021* 2992-3003
- Chen, Q.**, see Ma, R., *TSMC Dec. 2021* 7685-7691
- Chen, S.**, see Yan, H., *TSMC Feb. 2021* 1233-1243
- Chen, S.**, see Zhang, Z., *TSMC May 2021* 3270-3281
- Chen, S.**, see Zhang, Q., *TSMC Dec. 2021* 7510-7516
- Chen, W.**, see Jia, Y., *TSMC Jan. 2021* 634-649
- Chen, W.**, see Wang, X., *TSMC Jan. 2021* 253-265
- Chen, W.**, see Song, A., *TSMC Feb. 2021* 927-942
- Chen, W.**, see Gao, F., *TSMC March 2021* 1404-1413
- Chen, W.**, see Gong, Y., *TSMC May 2021* 2712-2725
- Chen, W.**, see Zhang, S., *TSMC July 2021* 4091-4101
- Chen, W.**, see Zhao, T., *TSMC Aug. 2021* 5090-5104
- Chen, W.**, see Wen, L., *TSMC Aug. 2021* 5030-5045
- Chen, W.**, see Cui, L., *TSMC Oct. 2021* 6282-6292
- Chen, X.**, see Hu, S., *TSMC March 2021* 1392-1403
- Chen, X.**, see Su, H., *TSMC April 2021* 2501-2511
- Chen, X.**, Ding, Z., Dong, Y., and Liang, H., Managing Consensus With Minimum Adjustments in Group Decision Making With Opinions Evolution; *TSMC April 2021* 2299-2311
- Chen, X.**, see Su, H., *TSMC Oct. 2021* 6503-6512
- Chen, X.**, see Fu, H., *TSMC Nov. 2021* 6976-6985
- Chen, X.**, see Ling, Z., *TSMC Dec. 2021* 7475-7485
- Chen, Y.**, see Li, J., *TSMC Feb. 2021* 696-704
- Chen, Y.**, see Wen, S., *TSMC March 2021* 1794-1804
- Chen, Y.**, Zhou, L., Pei, S., Yu, Z., Liu, X., Du, J., and Xiong, N., KNN-BLOCK DBSCAN: Fast Clustering for Large-Scale Data; *TSMC June 2021* 3939-3953
- Chen, Y.**, see Chen, Y., *TSMC June 2021* 3939-3953
- Chen, Y.**, see Tan, P., *TSMC July 2021* 4466-4478
- Chen, Y.**, Qi, D., and Li, C., Distributed Dynamic Averaging Tracking Without Rate Measurements; *TSMC July 2021* 4359-4364
- Chen, Y.**, see Yang, L., *TSMC July 2021* 4262-4273
- Chen, Y.**, Zhang, X., and Wang, J., Robust Vehicle Driver Assistance Control for Handover Scenarios Considering Driving Performances; *TSMC July 2021* 4160-4170
- Chen, Y.**, see Huang, D., *TSMC July 2021* 4067-4077
- Chen, Y.**, see Li, Y., *TSMC Aug. 2021* 5209-5217
- Chen, Y.**, see Yu, W., *TSMC Sept. 2021* 5905-5917
- Chen, Y.**, see Han, S., *TSMC Nov. 2021* 6701-6711
- Chen, Y.**, see Wen, S., *TSMC Nov. 2021* 7250-7259
- Chen, Y.**, see Li, M., *TSMC Nov. 2021* 7228-7237
- Chen, Y.**, see Sun, H., *TSMC Dec. 2021* 7663-7674
- Chen, Z.**, see Yang, X., *TSMC June 2021* 3370-3379
- Chen, Z.**, and Ji, H., Distributed Quantized Optimization Design of Continuous-Time Multiagent Systems Over Switching Graphs; *TSMC Nov. 2021* 7152-7163
- Cheng, B.**, see Wu, Z., *TSMC May 2021* 3263-3269
- Cheng, C.**, see Bao, J., *TSMC Jan. 2021* 452-463
- Cheng, F.**, see Su, Y., *TSMC May 2021* 2833-2846
- Cheng, J.**, see Qi, W., *TSMC Feb. 2021* 775-785
- Cheng, J.**, see Gao, S., *TSMC June 2021* 3954-3967
- Cheng, J.**, see Wang, C., *TSMC Aug. 2021* 5230-5243
- Cheng, J.**, see Qi, W., *TSMC Sept. 2021* 5446-5455
- Cheng, J.**, see Cheng, P., *TSMC Dec. 2021* 7644-7651
- Cheng, L.**, see Yang, H., *TSMC Jan. 2021* 601-609
- Cheng, L.**, see Kong, L., *TSMC March 2021* 1735-1746
- Cheng, L.**, see Yang, C., *TSMC May 2021* 3282-3292
- Cheng, L.**, see Sun, T., *TSMC July 2021* 4193-4200
- Cheng, L.**, see Cai, M., *TSMC Aug. 2021* 4751-4760
- Cheng, P.**, see Hua, M., *TSMC May 2021* 3180-3192
- Cheng, P.**, He, S., Cheng, J., Luan, X., and Liu, F., Asynchronous Output Feedback Control for a Class of Conic-Type Nonlinear Hidden Markov Jump Systems Within a Finite-Time Interval; *TSMC Dec. 2021* 7644-7651
- Cheng, R.**, see Chen, H., *TSMC June 2021* 3552-3564
- Cheng, R.**, see Tian, Y., *TSMC Sept. 2021* 5880-5894
- Cheng, S.**, Li, L., Liu, C., Wu, X., Fang, S., and Yong, J., Robust LMI-Based H-Infinite Controller Integrating AFS and DYC of Autonomous Vehicles With Parametric Uncertainties; *TSMC Nov. 2021* 6901-6910
- Cheng, S.**, see Ma, L., *TSMC Nov. 2021* 6723-6742
- Cheng, T.**, see Shih, C., *TSMC May 2021* 3240-3250
- Cheng, Y.**, see Wang, X., *TSMC March 2021* 2003-2011
- Cheng, Y.**, see Wang, X., *TSMC June 2021* 3771-3780
- Cheng, Y.**, Zhang, J., Du, H., Wen, G., and Lin, X., Global Event-Triggered Output Feedback Stabilization of a Class of Nonlinear Systems; *TSMC July 2021* 4040-4047
- Cheng, Y.**, see Wang, X., *TSMC Sept. 2021* 5918-5928
- Cheng, Y.**, see Shi, L., *TSMC Dec. 2021* 7745-7751
- Cheng, Z.**, see Hu, S., *TSMC March 2021* 1392-1403
- Cheng, Z.**, see Hu, S., *TSMC Oct. 2021* 6050-6061
- Chi, K.**, see Liu, X., *TSMC June 2021* 3844-3854
- Chi, R.**, see Hui, Y., *TSMC March 2021* 1881-1891
- Chi, R.**, see Lin, N., *TSMC June 2021* 3358-3369
- Chi, R.**, see Lin, N., *TSMC July 2021* 4048-4056
- Chi, R.**, see Hui, Y., *TSMC Dec. 2021* 7813-7822
- Chi, W.**, see Wang, C., *TSMC Aug. 2021* 5230-5243
- Chiclana, F.**, see Herrera-Viedma, E., *TSMC Jan. 2021* 191-208
- Chiclana, F.**, see Xu, Y., *TSMC June 2021* 3498-3511
- Chiclana, F.**, see Zha, Q., *TSMC June 2021* 3900-3910
- Chiclana, F.**, see Cao, M., *TSMC Oct. 2021* 6134-6146
- Chinnasamy, K.**, see Gnaneswaran, N., *TSMC June 2021* 3346-3357
- Choi, E.**, see Hoang, M.C., *TSMC May 2021* 3040-3052
- Choi, S.H.**, Kang, B.G., and Kim, T.G., A Heuristic Procedure for Selecting the Best Feasible Design in the Presence of Stochastic Constraints; *TSMC Feb. 2021* 1016-1026
- Choi, T.**, see Xu, L., *TSMC Nov. 2021* 7177-7190
- Choi, T.**, Mobile-App-Online-Website Dual Channel Strategies: Privacy Concerns, E-Payment Convenience, Channel Relationship, and Coordination; *TSMC Nov. 2021* 7008-7016
- Choi, Y.H.**, and Yoo, S.J., Decentralized Event-Triggered Tracking of a Class of Uncertain Interconnected Nonlinear Systems Using Minimal Function Approximators; *TSMC March 2021* 1766-1778
- Choi, Y.H.**, and Yoo, S.J., Distributed Containment Control of MIMO Pure-Feedback Multiagent Systems Using Filter-Driven-Approximation Approach; *TSMC Sept. 2021* 5490-5502
- Chong, K.T.**, see Cao, J., *TSMC June 2021* 3808-3819

- Chou, C.**, see Lin, C., *TSMC May 2021 2926-2936*
- Chu, H.**, Yue, D., Gao, L., and Lai, X., Consensus of Multiagent Systems With Relative State Saturations; *TSMC April 2021 2391-2402*
- Chu, H.**, Yue, D., Dou, C., Xie, X., and Chu, L., Consensus of Multiagent Systems With Time-Varying Input Delay via Truncated Predictor Feedback; *TSMC Oct. 2021 6062-6073*
- Chu, H.**, Yue, D., Dou, C., and Chu, L., Consensus of Multiagent Systems With Time-Varying Input Delay and Relative State Saturation Constraints; *TSMC Nov. 2021 6938-6944*
- Chu, L.**, see Chu, H., *TSMC Oct. 2021 6062-6073*
- Chu, L.**, see Chu, H., *TSMC Nov. 2021 6938-6944*
- Chung, F.**, see Zhou, J., *TSMC Oct. 2021 6015-6028*
- Cobo, M.J.**, see Tunstel, E., *TSMC Jan. 2021 5-21*
- Cong, Y.**, see Liu, H., *TSMC Nov. 2021 7109-7119*
- Costa-Castello, R.**, see Na, J., *TSMC Feb. 2021 731-741*
- Cross, J.G.**, see Aizpurua, J.I., *TSMC Jan. 2021 621-633*
- Cui, L.**, see Gao, H., *TSMC March 2021 1844-1854*
- Cui, L.**, Zuo, Z., and Yang, Y., A Control-Theoretic Study on Iterative Solution to Control Allocation for Over-Actuated Aircraft; *TSMC June 2021 3429-3439*
- Cui, L.**, Wang, H., Liang, X., Wang, J., and Chen, W., Visual Servoing of a Flexible Aerial Refueling Boom With an Eye-in-Hand Camera ; *TSMC Oct. 2021 6282-6292*
- Cui, R.**, see Xie, X., *TSMC Oct. 2021 6535-6543*
- Cui, Y.**, Liu, Y., Zhang, W., and Alsaadi, F.E., Sampled-Based Consensus for Nonlinear Multiagent Systems With Deception Attacks: The Decoupled Method; *TSMC Jan. 2021 561-573*

D

- Dai, J.**, see Xiao, L., *TSMC June 2021 3629-3640*
- Dai, J.**, see Xiao, L., *TSMC Aug. 2021 4729-4740*
- Dai, X.**, see Hua, M., *TSMC May 2021 3180-3192*
- Dai, X.**, see Akmandor, A.O., *TSMC Dec. 2021 7553-7568*
- Dalakas, V.**, see Kapos, G., *TSMC June 2021 3330-3345*
- Danesh, M.**, see Parsa, M., *TSMC April 2021 2312-2321*
- Dang, L.**, see Chen, B., *TSMC Sept. 2021 5819-5829*
- Dang, W.**, see Gao, Z., *TSMC Nov. 2021 7143-7151*
- de la Rosa, E.**, see Yu, W., *TSMC Nov. 2021 6660-6668*
- De Schutter, B.**, see Lv, M., *TSMC Aug. 2021 4936-4942*
- Deconinck, G.**, see Kumar, R., *TSMC April 2021 2036-2040*
- Deng, C.**, Cooperative Fault-Tolerant Output Regulation of Linear Heterogeneous Multiagent Systems Under Directed Network Topology; *TSMC Aug. 2021 4773-4781*
- Deng, C.**, and Che, W., Fault-Tolerant Fuzzy Formation Control for a Class of Nonlinear Multiagent Systems Under Directed and Switching Topology; *TSMC Sept. 2021 5456-5465*
- Deng, F.**, see Hu, Z., *TSMC Jan. 2021 552-560*
- Deng, F.**, see Hu, Z., *TSMC Feb. 2021 755-764*
- Deng, F.**, see Hua, M., *TSMC May 2021 3180-3192*
- Deng, M.**, Liu, B., Li, S., Du, R., Wu, G., Li, H., and Wang, L., A Two-Phase Coordinated Planning Approach for Heterogeneous Earth-Observation Resources to Monitor Area Targets; *TSMC Oct. 2021 6388-6403*
- Deng, Z.**, see Xu, M., *TSMC March 2021 1567-1581*
- Deng, Z.**, Distributed Algorithm Design for Resource Allocation Problems of Second-Order Multiagent Systems Over Weight-Balanced Digraphs; *TSMC June 2021 3512-3521*
- Deng, Z.**, see Wang, J., *TSMC July 2021 4078-4090*
- Deng, Z.**, see Li, S., *TSMC Aug. 2021 4814-4824*
- Ding, C.**, see Wu, Z., *TSMC March 2021 1590-1600*
- Ding, D.**, Han, Q., Ge, X., and Wang, J., Secure State Estimation and Control of Cyber-Physical Systems: A Survey; *TSMC Jan. 2021 176-190*
- Ding, D.**, see Mao, J., *TSMC Oct. 2021 6170-6182*
- Ding, D.**, Han, Q., Wang, Z., and Ge, X., Recursive Filtering of Distributed Cyber-Physical Systems With Attack Detection; *TSMC Oct. 2021 6466-6476*
- Ding, E.L.**, see Zhong, M., *TSMC July 2021 4251-4261*
- Ding, J.**, see Tan, P., *TSMC July 2021 4466-4478*
- Ding, K.**, Zhu, Q., and Li, H., A Generalized System Approach to Intermittent Nonfragile Control of Stochastic Neutral Time-Varying Delay Systems; *TSMC Nov. 2021 7017-7026*
- Ding, L.**, see Ning, Y., *TSMC May 2021 3293-3303*
- Ding, L.**, see Li, S., *TSMC Aug. 2021 4814-4824*
- Ding, L.**, Hu, P., Guan, Z., and Li, T., An Efficient Hybrid Control Strategy for Restraining Rumor Spreading; *TSMC Nov. 2021 6779-6791*
- Ding, N.**, see Yu, X., *TSMC June 2021 3440-3449*
- Ding, S.**, see Mei, K., *TSMC Jan. 2021 497-507*
- Ding, S.**, see Fang, L., *TSMC Nov. 2021 7201-7213*
- Ding, S.X.**, see Zhong, M., *TSMC July 2021 4251-4261*
- Ding, T.**, see Qu, M., *TSMC April 2021 2145-2158*
- Ding, W.**, see Gupta, A., *TSMC May 2021 3080-3092*
- Ding, Z.**, see Chen, X., *TSMC April 2021 2299-2311*
- Do, T.N.**, see Lin, C., *TSMC Jan. 2021 298-312*
- Do, V.**, and Lee, S., Neural Integral Backstepping Hierarchical Sliding Mode Control for a Ridable Ballbot Under Uncertainties and Input Saturation; *TSMC Nov. 2021 7214-7227*
- Dong, G.**, see Cao, L., *TSMC March 2021 1380-1391*
- Dong, G.**, see Sun, W., *TSMC March 2021 1496-1506*
- Dong, G.**, see Cao, L., *TSMC June 2021 3855-3866*
- Dong, H.**, see Han, F., *TSMC March 2021 1892-1903*
- Dong, H.**, see Wu, X., *TSMC May 2021 2665-2675*
- Dong, H.**, see Mao, J., *TSMC Oct. 2021 6170-6182*
- Dong, J.**, see Wu, Y., *TSMC Jan. 2021 326-338*
- Dong, J.**, see Wu, Y., *TSMC Feb. 2021 864-874*
- Dong, J.**, see Huang, X., *TSMC Dec. 2021 7466-7474*
- Dong, J.**, see Zhang, Z., *TSMC Dec. 2021 7652-7662*
- Dong, L.**, and Nguang, S.K., Relay Tracking Controller Design for Multiagent Systems With Varying Number of Agents; *TSMC Oct. 2021 6147-6158*
- Dong, L.**, Ho, D.W.C., and Du, S., Coordination Tracking of Multiagent Systems With Active Replacement Strategy Under Node Failures; *TSMC Nov. 2021 6852-6862*
- Dong, P.**, see Tang, H., *TSMC Oct. 2021 6074-6084*
- Dong, S.**, see Fang, M., *TSMC May 2021 2916-2925*
- Dong, X.**, see Yuan, J., *TSMC Sept. 2021 5377-5391*
- Dong, X.**, see Zhang, D., *TSMC Nov. 2021 7269-7278*
- Dong, Y.**, see Herrera-Viedma, E., *TSMC Jan. 2021 191-208*
- Dong, Y.**, see Kong, L., *TSMC March 2021 1735-1746*
- Dong, Y.**, see Chen, X., *TSMC April 2021 2299-2311*
- Dong, Y.**, see Zha, Q., *TSMC June 2021 3900-3910*
- Dong, Y.**, He, W., Kong, L., and Hua, X., Impedance Control for Coordinated Robots by State and Output Feedback; *TSMC Aug. 2021 5056-5066*
- Dong, Y.**, Zha, Q., Zhang, H., and Herrera, F., Consensus Reaching and Strategic Manipulation in Group Decision Making With Trust Relationships; *TSMC Oct. 2021 6304-6318*
- Dong, Z.**, see Mao, S., *TSMC April 2021 2068-2079*
- Dong, Z.**, see Li, H., *TSMC Aug. 2021 5153-5164*
- Dong, Z.**, see Liu, Y., *TSMC Sept. 2021 5614-5625*
- Dong, Z.Y.**, see Mao, S., *TSMC April 2021 2068-2079*
- Dong, Z.Y.**, see Jia, Y., *TSMC April 2021 2123-2133*
- Dou, C.**, see Zhang, Z., *TSMC April 2021 2101-2112*
- Dou, C.**, see Hu, S., *TSMC Oct. 2021 6050-6061*
- Dou, C.**, see Chu, H., *TSMC Oct. 2021 6062-6073*
- Dou, C.**, see Chu, H., *TSMC Nov. 2021 6938-6944*
- Dou, R.**, and Ling, Q., Model-Based Periodic Event-Triggered Control Strategy to Stabilize a Scalar Nonlinear System; *TSMC Sept. 2021 5322-5335*
- Du, C.**, Yang, C., Li, F., Gui, W., and Li, W., Design and Implementation of Observer-Based Sliding Mode for Underactuated Rendezvous System; *TSMC Oct. 2021 6003-6014*
- Du, H.**, see Cheng, Y., *TSMC July 2021 4040-4047*
- Du, H.**, see Zhu, W., *TSMC Nov. 2021 6768-6778*
- Du, J.**, see Zhang, B., *TSMC March 2021 1994-2002*
- Du, J.**, see Chen, Y., *TSMC June 2021 3939-3953*
- Du, J.**, see Li, W., *TSMC Oct. 2021 6599-6604*

- Du, P.**, Liang, H., Zhao, S., and Ahn, C.K., Neural-Based Decentralized Adaptive Finite-Time Control for Nonlinear Large-Scale Systems With Time-Varying Output Constraints; *TSMC May 2021* 3136-3147
- Du, P.**, see Zhou, Q., *TSMC Oct. 2021* 6369-6380
- Du, R.**, see Deng, M., *TSMC Oct. 2021* 6388-6403
- Du, S.**, Qiao, J., Ho, D.W.C., and Zhu, L., Fixed-Time Cooperative Relay Tracking in Multiagent Surveillance Networks; *TSMC Jan. 2021* 487-496
- Du, S.**, see Chen, B., *TSMC June 2021* 4007-4012
- Du, S.**, Wu, Z., Wang, J., Qi, S., and Yu, J., Design and Control of a Two-Motor-Actuated Tuna-Inspired Robot System; *TSMC Aug. 2021* 4670-4680
- Du, S.**, see Li, X., *TSMC Sept. 2021* 5846-5854
- Du, S.**, see Dong, L., *TSMC Nov. 2021* 6852-6862
- Du, Z.**, Kao, Y., and Zhao, X., An Input Delay Approach to Interval Type-2 Fuzzy Exponential Stabilization for Nonlinear Unreliable Networked Sampled-Data Control Systems; *TSMC June 2021* 3488-3497
- Duan, C.**, see Liu, H., *TSMC Aug. 2021* 5261-5271
- Duan, J.**, see Cai, Y., *TSMC Nov. 2021* 6743-6756
- Duan, P.**, see Niu, B., *TSMC Feb. 2021* 975-986
- Duan, P.**, see Niu, B., *TSMC July 2021* 4566-4578
- Duan, Q.**, see Zhao, Y., *TSMC Jan. 2021* 532-541
- Duan, Z.**, see Hao, Y., *TSMC March 2021* 1757-1765
- Duan, Z.**, see Wang, J., *TSMC Aug. 2021* 4848-4857
- Dutta, S.**, Behera, L., and Nahavandi, S., Skill Learning From Human Demonstrations Using Dynamical Regressive Models for Multitask Applications; *TSMC Jan. 2021* 659-672
- E**
- Effati, S.**, see Mansoori, A., *TSMC April 2021* 2592-2601
- Effati, S.**, see Mohammadi, M., *TSMC May 2021* 2798-2809
- Er, M.J.**, see Nguyen, V., *TSMC Dec. 2021* 7838-7849
- Esfandiari, K.**, and Shakarami, M., Bank of High-Gain Observers in Output Feedback Control: Robustness Analysis Against Measurement Noise; *TSMC April 2021* 2476-2487
- F**
- Fan, J.**, see Lu, Q., *TSMC Nov. 2021* 6650-6659
- Fan, K.**, see Wu, Z., *TSMC July 2021* 4433-4442
- Fan, Q.**, and Yan, X., Solving Multimodal Multiobjective Problems Through Zoning Search; *TSMC Aug. 2021* 4836-4847
- Fan, Y.**, see Yan, Z., *TSMC Nov. 2021* 6712-6722
- Fang, L.**, see Hipel, K.W., *TSMC Jan. 2021* 131-141
- Fang, L.**, see Zhao, S., *TSMC June 2021* 3911-3925
- Fang, L.**, Ma, L., Ding, S., and Park, J.H., Finite-Time Stabilization of High-Order Stochastic Nonlinear Systems With Asymmetric Output Constraints; *TSMC Nov. 2021* 7201-7213
- Fang, L.**, see Wu, N., *TSMC Dec. 2021* 7889-7902
- Fang, M.**, see Xu, Y., *TSMC March 2021* 1642-1651
- Fang, M.**, Wang, L., and Wu, Z., Asynchronous Stabilization of Boolean Control Networks With Stochastic Switched Signals; *TSMC April 2021* 2425-2432
- Fang, M.**, Shi, P., and Dong, S., Sliding Mode Control for Markov Jump Systems With Delays via Asynchronous Approach; *TSMC May 2021* 2916-2925
- Fang, M.**, see Shen, Y., *TSMC Sept. 2021* 5349-5356
- Fang, Q.**, see Liu, J., *TSMC June 2021* 3664-3677
- Fang, S.**, see Cheng, S., *TSMC Nov. 2021* 6901-6910
- Fang, X.**, Wang, C., Nguyen, T., and Xie, L., Graph Optimization Approach to Range-Based Localization; *TSMC Nov. 2021* 6830-6841
- Fang, Y.**, see Tan, P., *TSMC July 2021* 4466-4478
- Fang, Y.**, see Liang, X., *TSMC July 2021* 4171-4182
- Fang, Y.**, see Xia, X., *TSMC Sept. 2021* 5686-5697
- Faure, L.**, see Gregory, J., *TSMC Nov. 2021* 6946-6961
- Fei, J.**, see Hua, M., *TSMC May 2021* 3180-3192
- Fei, J.**, and Feng, Z., Fractional-Order Finite-Time Super-Twisting Sliding Mode Control of Micro Gyroscope Based on Double-Loop Fuzzy Neural Network; *TSMC Dec. 2021* 7692-7706
- Fei, Z.**, Shi, S., Wang, T., and Ahn, C.K., Improved Stability Criteria for Discrete-Time Switched T-S Fuzzy Systems; *TSMC Feb. 2021* 712-720
- Fei, Z.**, Wang, X., Liu, M., and Yu, J., Reliable Control for Vehicle Active Suspension Systems Under Event-Triggered Scheme With Frequency Range Limitation; *TSMC March 2021* 1630-1641
- Fei, Z.**, see Guan, C., *TSMC May 2021* 2873-2884
- Feng, D.D.**, see Aouaidjia, K., *TSMC May 2021* 2774-2788
- Feng, G.**, see Li, W., *TSMC Jan. 2021* 477-486
- Feng, G.**, see Zhang, D., *TSMC Feb. 2021* 1258-1266
- Feng, G.**, see Qian, Y., *TSMC July 2021* 4139-4148
- Feng, H.**, see Shi, S., *TSMC March 2021* 1869-1880
- Feng, J.**, see Xia, J., *TSMC March 2021* 1945-1953
- Feng, J.**, see Sun, X., *TSMC July 2021* 4532-4542
- Feng, J.**, see Tang, Z., *TSMC Aug. 2021* 4969-4979
- Feng, J.**, see Han, K., *TSMC Sept. 2021* 5855-5866
- Feng, J.**, see Zhuang, G., *TSMC Nov. 2021* 6808-6818
- Feng, Q.**, see Liu, Z., *TSMC Jan. 2021* 209-222
- Feng, S.**, see Liu, Z., *TSMC Jan. 2021* 209-222
- Feng, X.**, see Lai, Z., *TSMC Feb. 2021* 797-808
- Feng, Y.**, Li, H., and Yang, H., Abnormal Source Identification for Parabolic Distributed Parameter Systems; *TSMC Sept. 2021* 5698-5707
- Feng, Y.**, see Wang, X., *TSMC Oct. 2021* 6122-6133
- Feng, Y.**, Zhou, M., Tian, F., Yan, C., and Xing, K., Deadlock Prevention Controller for Automated Manufacturing Systems Modeled by S⁴PR; *TSMC Dec. 2021* 7403-7412
- Feng, Z.**, see Fei, J., *TSMC Dec. 2021* 7692-7706
- Ferreira, P.M.**, Pernes, D., Rebelo, A., and Cardoso, J.S., DeSIRE: Deep Signer-Invariant Representations for Sign Language Recognition; *TSMC Sept. 2021* 5830-5845
- Filev, D.**, see Tunstel, E., *TSMC Jan. 2021* 5-21
- Filev, D.**, see Li, N., *TSMC Jan. 2021* 116-130
- Fortino, G.**, Savaglio, C., Spezzano, G., and Zhou, M., Internet of Things as System of Systems: A Review of Methodologies, Frameworks, Platforms, and Tools; *TSMC Jan. 2021* 223-236
- Franquelo, L.G.**, see Yin, Y., *TSMC Feb. 2021* 674-685
- Fu, C.**, see Chen, J., *TSMC June 2021* 3699-3712
- Fu, H.**, Chen, X., and Wu, M., Distributed Optimal Observer Design of Networked Systems via Adaptive Critic Design; *TSMC Nov. 2021* 6976-6985
- Fu, J.**, see Li, L., *TSMC Dec. 2021* 7675-7684
- Fu, J.**, see Ma, R., *TSMC Dec. 2021* 7685-7691
- Fu, L.**, see Leng, J., *TSMC Jan. 2021* 237-252
- Fu, M.**, see Xie, K., *TSMC May 2021* 2653-2664
- Fu, Q.**, see Zhang, S., *TSMC July 2021* 4091-4101
- Fu, X.**, see Xiao, Z., *TSMC March 2021* 1830-1843
- Fu, X.**, see Li, K., *TSMC April 2021* 2602-2610
- Fu, Z.**, see Shao, F., *TSMC May 2021* 3053-3067
- Fukushima, K.**, Artificial Vision by Deep CNN Neocognitron; *TSMC Jan. 2021* 76-90
- G**
- Galambos, P.**, see Karoly, A.I., *TSMC Jan. 2021* 266-279
- Gao, C.**, see Jiang, B., *TSMC March 2021* 1549-1558
- Gao, D.Y.**, Canonical Duality Theory and Algorithm for Solving Bilevel Knapsack Problems With Applications; *TSMC Feb. 2021* 893-904
- Gao, F.**, see Zhang, R., *TSMC Feb. 2021* 833-841
- Gao, F.**, Chen, W., Li, Z., Li, J., and Yan, R., Neural Network-Based Cooperative Identification for a Class of Unknown Nonlinear Systems via Event-Triggered Communication; *TSMC March 2021* 1404-1413
- Gao, F.**, see Wang, L., *TSMC April 2021* 2536-2549
- Gao, G.**, see Na, J., *TSMC June 2021* 3832-3843
- Gao, H.**, Cui, L., and Chen, J., Reliability Modeling for Sparsely Connected Homogeneous Multistate Consecutive-k-Out-of-n: GSystems; *TSMC March 2021* 1844-1854
- Gao, H.**, see Ning, Y., *TSMC May 2021* 3293-3303
- Gao, H.**, see Sun, K., *TSMC June 2021* 3968-3979
- Gao, H.**, see Li, S., *TSMC Aug. 2021* 4814-4824

- Gao, H.**, *see* Hu, C., *TSMC Sept. 2021 5336-5348*
- Gao, H.**, *see* He, W., *TSMC Dec. 2021 7326-7336*
- Gao, H.**, Ye, C., Lin, W., and Qiu, J., Complex Workpiece Positioning System With Nonrigid Registration Method for 6-DoFs Automatic Spray Painting Robot; *TSMC Dec. 2021 7305-7313*
- Gao, K.**, Yan, X., Peng, R., and Xing, L., Economic Design of a Linear Consecutively Connected System Considering Cost and Signal Loss; *TSMC Aug. 2021 5116-5128*
- Gao, L.**, *see* Chu, H., *TSMC April 2021 2391-2402*
- Gao, S.**, *see* Wang, J., *TSMC April 2021 2284-2298*
- Gao, S.**, Yu, Y., Wang, Y., Wang, J., Cheng, J., and Zhou, M., Chaotic Local Search-Based Differential Evolution Algorithms for Optimization ; *TSMC June 2021 3954-3967*
- Gao, T.**, *see* Ji, L., *TSMC Sept. 2021 5367-5376*
- Gao, W.**, Li, G., Zhang, Q., Luo, Y., and Wang, Z., Solving Nonlinear Equation Systems by a Two-Phase Evolutionary Algorithm; *TSMC Sept. 2021 5652-5663*
- Gao, Y.**, *see* Jia, Y., *TSMC Jan. 2021 634-649*
- Gao, Y.**, *see* Zhang, X., *TSMC Feb. 2021 1138-1148*
- Gao, Y.**, Liu, J., Wang, Z., and Wu, L., Interval Type-2 FNN-Based Quantized Tracking Control for Hypersonic Flight Vehicles With Prescribed Performance; *TSMC March 2021 1981-1993*
- Gao, Y.**, *see* Sun, X., *TSMC July 2021 4532-4542*
- Gao, Y.**, *see* Li, D., *TSMC Sept. 2021 5929-5934*
- Gao, Y.**, *see* Qiao, S., *TSMC Oct. 2021 6229-6243*
- Gao, Z.**, *see* Yang, Y., *TSMC Sept. 2021 5800-5808*
- Gao, Z.**, *see* Pu, Z., *TSMC Nov. 2021 6757-6767*
- Gao, Z.**, Dang, W., Liu, M., Guo, W., Ma, K., and Chen, G.R., Classification of EEG Signals on VEP-Based BCI Systems With Broad Learning; *TSMC Nov. 2021 7143-7151*
- Garcia, A.**, Obeidi, A., and Hipel, K.W., Inverse Engineering Preferences in the Graph Model for Conflict Resolution; *TSMC March 2021 1716-1724*
- Garcia Gomez, J.L.**, *see* Lin, C., *TSMC May 2021 2926-2936*
- Garratt, M.A.**, *see* Santoso, F., *TSMC March 2021 1817-1829*
- Garratt, M.A.**, *see* Al-Mahasneh, A.J., *TSMC April 2021 2525-2535*
- Garratt, M.A.**, *see* Santoso, F., *TSMC Sept. 2021 5664-5673*
- Gautam, C.**, Tiwari, A., Suresh, S., and Ahuja, K., Adaptive Online Learning With Regularized Kernel for One-Class Classification; *TSMC March 2021 1917-1932*
- Ge, C.**, Park, J.H., Hua, C., and Guan, X., Nonfragile Consensus of Multiagent Systems Based on Memory Sampled-Data Control; *TSMC Jan. 2021 391-399*
- Ge, M.**, *see* Wang, L., *TSMC Feb. 2021 905-915*
- Ge, Q.**, *see* Lu, Z., *TSMC May 2021 2701-2711*
- Ge, S.S.**, *see* Zhang, Z., *TSMC July 2021 4479-4491*
- Ge, S.S.**, *see* Wang, S., *TSMC Dec. 2021 7776-7787*
- Ge, X.**, *see* Ding, D., *TSMC Jan. 2021 176-190*
- Ge, X.**, *see* Mao, J., *TSMC Oct. 2021 6170-6182*
- Ge, X.**, *see* Ding, D., *TSMC Oct. 2021 6466-6476*
- Ge, Y.**, *see* Wu, L., *TSMC Jan. 2021 464-476*
- Ge, Y.**, *see* Hong, R., *TSMC March 2021 1434-1445*
- Gehlhar, R.**, *see* Azimi, V., *TSMC Feb. 2021 1174-1191*
- Geng, K.**, *see* Zhuang, J., *TSMC Sept. 2021 5392-5404*
- Geng, Z.**, *see* Peng, X., *TSMC Aug. 2021 4929-4935*
- Giordano, A.**, Mastroianni, C., Menniti, D., Pinnarelli, A., Scarcello, L., and Sorrentino, N., A Two-Stage Approach for Efficient Power Sharing Within Energy Districts; *TSMC March 2021 1679-1689*
- Girard, A.**, *see* Li, N., *TSMC Jan. 2021 116-130*
- Gnanesan, N.**, Chinnasamy, K., Ramasamy, S., and Zhu, Q., Robust Exponential Stability Analysis for Stochastic Systems With Actuator Faults Using Improved Weighted Relaxed Integral Inequality; *TSMC June 2021 3346-3357*
- Goh, R.S.M.**, *see* Xiao, Z., *TSMC March 2021 1830-1843*
- Golkar, A.**, *see* Smirnov, D., *TSMC Feb. 2021 1302-1312*
- Gong, C.**, Zhu, G., and Shi, P., Adaptive Event-Triggered and Double-Quantized Consensus of Leader-Follower Multiagent Systems With Semi-Markovian Jump Parameters; *TSMC Sept. 2021 5867-5879*
- Gong, L.**, *see* Wang, J., *TSMC July 2021 4078-4090*
- Gong, P.**, *see* Wang, X., *TSMC March 2021 2003-2011*
- Gong, X.**, *see* Zhang, J., *TSMC Oct. 2021 5938-5948*
- Gong, Y.**, Liu, Y., Lin, Y., Chen, W., and Zhang, J., Real-Time Taxi-Passenger Matching Using a Differential Evolutionary Fuzzy Controller; *TSMC May 2021 2712-2725*
- Goodwin, M.**, *see* Sharma, J., *TSMC Dec. 2021 7363-7381*
- Granmo, O.**, *see* Sharma, J., *TSMC Dec. 2021 7363-7381*
- Gregory, J.**, Berthoud, L., Tryfonas, T., Prezzavento, A., and Faure, L., Investigating the Flexibility of the MBSE Approach to the Biomass Mission; *TSMC Nov. 2021 6946-6961*
- Grossberg, S.**, Toward Autonomous Adaptive Intelligence: Building Upon Neural Models of How Brains Make Minds; *TSMC Jan. 2021 51-75*
- Gu, H.**, Wang, X., Liu, K., and Lu, J., A Novel Synchronization Protocol for Nonlinear Stochastic Dynamical Networked Systems; *TSMC May 2021 2676-2686*
- Gu, J.**, *see* Shi, S., *TSMC Sept. 2021 5357-5366*
- Gu, N.**, Wang, D., Peng, Z., and Liu, L., Observer-Based Finite-Time Control for Distributed Path Maneuvering of Underactuated Unmanned Surface Vehicles With Collision Avoidance and Connectivity Preservation; *TSMC Aug. 2021 5105-5115*
- Gu, T.**, *see* Jia, Y., *TSMC Jan. 2021 634-649*
- Gu, T.**, *see* Song, A., *TSMC Feb. 2021 927-942*
- Gu, T.**, *see* Zhao, T., *TSMC Aug. 2021 5090-5104*
- Gu, Y.**, *see* Wu, X., *TSMC Aug. 2021 4693-4705*
- Gu, Y.**, *see* Chen, B., *TSMC Sept. 2021 5819-5829*
- Gu, Z.**, Park, J.H., Yue, D., Wu, Z., and Xie, X., Event-Triggered Security Output Feedback Control for Networked Interconnected Systems Subject to Cyber-Attacks; *TSMC Oct. 2021 6197-6206*
- Guan, C.**, Fei, Z., Karimi, H.R., and Shi, P., Finite-Time Synchronization for Switched Neural Networks via Quantized Feedback Control; *TSMC May 2021 2873-2884*
- Guan, J.**, *see* Cao, Z., *TSMC Sept. 2021 5274-5288*
- Guan, P.**, *see* Pang, L., *TSMC April 2021 2342-2354*
- Guan, X.**, *see* Ge, C., *TSMC Jan. 2021 391-399*
- Guan, X.**, *see* Yang, X., *TSMC Feb. 2021 1054-1063*
- Guan, X.**, *see* Zhao, G., *TSMC Aug. 2021 4911-4919*
- Guan, X.**, *see* Hua, C., *TSMC Dec. 2021 7719-7726*
- Guan, Z.**, *see* Ding, L., *TSMC Nov. 2021 6779-6791*
- Gui, W.**, *see* Liu, X., *TSMC Feb. 2021 965-974*
- Gui, W.**, *see* Du, C., *TSMC Oct. 2021 6003-6014*
- Guo, C.**, Xie, R., and Xie, X., Adaptive Control of Full-State Constrained High-Order Nonlinear Systems With Time-Varying Powers; *TSMC Aug. 2021 5189-5197*
- Guo, C.**, *see* Xie, X., *TSMC Oct. 2021 6535-6543*
- Guo, F.**, Li, G., Wen, C., Wang, L., and Meng, Z., An Accelerated Distributed Gradient-Based Algorithm for Constrained Optimization With Application to Economic Dispatch in a Large-Scale Power System; *TSMC April 2021 2041-2053*
- Guo, G.**, *see* Zhao, Z., *TSMC Jan. 2021 441-451*
- Guo, G.**, *see* Hao, L., *TSMC March 2021 2012-2026*
- Guo, J.**, *see* Li, S., *TSMC Feb. 2021 1075-1084*
- Guo, J.**, and Zhang, Y., Stepsize Interval Confirmation of General Four-Step DTZN Algorithm Illustrated With Future Quadratic Programming and Tracking Control of Manipulators ; *TSMC March 2021 1662-1670*
- Guo, J.**, *see* Li, S., *TSMC Sept. 2021 5437-5445*
- Guo, J.**, *see* Hu, C., *TSMC Sept. 2021 5336-5348*
- Guo, K.**, *see* Peng, X., *TSMC Aug. 2021 4929-4935*
- Guo, L.**, *see* Yin, L., *TSMC July 2021 4443-4452*
- Guo, L.**, *see* Li, W., *TSMC Nov. 2021 7099-7108*
- Guo, S.**, *see* Sun, X., *TSMC July 2021 4532-4542*
- Guo, W.**, *see* Leng, J., *TSMC Jan. 2021 237-252*
- Guo, W.**, Shi, Y., and Wang, S., A Unified Scheme for Distance Metric Learning and Clustering via Rank-Reduced Regression ; *TSMC Aug. 2021 5218-5229*
- Guo, W.**, *see* Gao, Z., *TSMC Nov. 2021 7143-7151*
- Guo, Y.J.**, *see* Wang, X., *TSMC March 2021 1601-1611*
- Guo, Z.**, *see* Liang, X., *TSMC March 2021 1534-1548*

Guo, Z., *see* Wen, S., *TSMC March 2021 1794-1804*

Guo, Z., *see* Wen, S., *TSMC Nov. 2021 7250-7259*

Gupta, A., Agrawal, R.K., Kirar, J.S., Andreu-Perez, J., Ding, W., Lin, C., and Prasad, M., On the Utility of Power Spectral Techniques With Feature Selection Techniques for Effective Mental Task Classification in Noninvasive BCI; *TSMC May 2021 3080-3092*

H

Han, C., *see* Li, H., *TSMC July 2021 4453-4465*

Han, F., Wang, Z., Dong, H., and Liu, H., Partial-Nodes-Based Scalable H_∞ -Consensus Filtering With Censored Measurements Over Sensor Networks; *TSMC March 2021 1892-1903*

Han, H., Zhang, L., Liu, H., Yang, C., and Qiao, J., Intelligent Optimal Control System With Flexible Objective Functions and Its Applications in Wastewater Treatment Process; *TSMC June 2021 3464-3476*

Han, H., Liu, Z., Liu, H., and Qiao, J., Knowledge-Data-Driven Model Predictive Control for a Class of Nonlinear Systems; *TSMC July 2021 4492-4504*

Han, J., *see* Wu, X., *TSMC Aug. 2021 4693-4705*

Han, K., and Feng, J., Reduced-Order Estimator-Based Efficient Fault-Tolerant Tracking Control Optimization for Constrained LPV Systems; *TSMC Sept. 2021 5855-5866*

Han, N., *see* Qiao, S., *TSMC Oct. 2021 6229-6243*

Han, Q., *see* Ding, D., *TSMC Jan. 2021 176-190*

Han, Q., *see* Zou, L., *TSMC March 2021 1904-1916*

Han, Q., *see* Zou, L., *TSMC May 2021 2937-2948*

Han, Q., *see* Li, H., *TSMC Aug. 2021 5244-5253*

Han, Q., *see* Lu, C., *TSMC Oct. 2021 6085-6095*

Han, Q., *see* Ding, D., *TSMC Oct. 2021 6466-6476*

Han, S., Zhou, J., Chen, Y., Zhang, Y., Tang, G., and Wang, L., Active Fault-Tolerant Control for Discrete Vehicle Active Suspension Via Reduced-Order Observer; *TSMC Nov. 2021 6701-6711*

Han, T., *see* Wan, X., *TSMC Oct. 2021 6445-6456*

Han, X., *see* Yu, W., *TSMC Sept. 2021 5905-5917*

Han, X., Zhao, X., Sun, T., Wu, Y., Xu, N., and Zong, G., Event-Triggered Optimal Control for Discrete-Time Switched Nonlinear Systems With Constrained Control Input; *TSMC Dec. 2021 7850-7859*

Hao, F., *see* Lin, Y., *TSMC June 2021 3725-3738*

Hao, F., *see* Liu, R., *TSMC Dec. 2021 7622-7632*

Hao, L., Zhang, H., Guo, G., and Li, H., Quantized Sliding Mode Control of Unmanned Marine Vehicles: Various Thruster Faults Tolerated With a Unified Model; *TSMC March 2021 2012-2026*

Hao, M., *see* Yang, B., *TSMC Dec. 2021 7392-7402*

Hao, N., *see* Tian, G., *TSMC March 2021 1855-1868*

Hao, Y., Wang, Q., Duan, Z., and Chen, G., The Role of Reverse Edges on Consensus Performance of Chain Networks; *TSMC March 2021 1757-1765*

Haralick, R.M., and Yuksel, A.C., The N-Tuple Subspace Classifier: Extensions and Survey; *TSMC Jan. 2021 22-39*

Hashim, H.A., Brown, L.J., and McIsaac, K., Nonlinear Pose Filters on the Special Euclidean Group SE(3) With Guaranteed Transient and Steady-State Performance; *TSMC May 2021 2949-2962*

Hashim, H.A., and Lewis, F.L., Nonlinear Stochastic Estimators on the Special Euclidean Group SE(3) Using Uncertain IMU and Vision Measurements; *TSMC Dec. 2021 7587-7600*

He, B., *see* Shen, H., *TSMC Dec. 2021 7497-7509*

He, C., Wan, Y., and Lewis, F.L., On the Identifiability of the Influence Model for Stochastic Spatiotemporal Spread Processes; *TSMC June 2021 3876-3888*

He, C., *see* Tian, Y., *TSMC Sept. 2021 5880-5894*

He, D., *see* Lin, Y., *TSMC June 2021 3725-3738*

He, G., Pan, Y., Xia, X., He, J., Peng, R., and Xiong, N.N., A Fast Semi-Supervised Clustering Framework for Large-Scale Time Series Data; *TSMC July 2021 4201-4216*

He, H., *see* Wang, Z., *TSMC Feb. 2021 1267-1277*

He, H., *see* Yang, X., *TSMC March 2021 1779-1793*

He, H., *see* Su, H., *TSMC April 2021 2501-2511*

He, H., *see* Wang, A., *TSMC July 2021 4520-4531*

He, H., *see* Yi, J., *TSMC Aug. 2021 4980-4992*

He, H., *see* Zhou, Y., *TSMC Aug. 2021 5080-5089*

He, J., *see* He, G., *TSMC July 2021 4201-4216*

He, J., Liu, Y., Lu, J., Cao, J., and Rutkowski, L., Event-Triggered Control for Output Regulation of Probabilistic Logical Systems With Delays; *TSMC Nov. 2021 6842-6851*

He, Q., *see* Zhang, Y., *TSMC June 2021 3796-3807*

He, S., Lyu, W., and Liu, F., Robust H_∞ Sliding Mode Controller Design of a Class of Time-Delayed Discrete Conic-Type Nonlinear Systems; *TSMC Feb. 2021 885-892*

He, S., Kilgour, D.M., and Hipel, K.W., A Three-Level Hierarchical Graph Model for Conflict Resolution; *TSMC March 2021 1424-1433*

He, S., *see* Nie, R., *TSMC April 2021 2467-2475*

He, S., *see* Nie, R., *TSMC Nov. 2021 6885-6891*

He, S., *see* Cheng, P., *TSMC Dec. 2021 7644-7651*

He, W., *see* Kong, L., *TSMC March 2021 1735-1746*

He, W., *see* Dong, Y., *TSMC Aug. 2021 5056-5066*

He, W., *see* Yu, X., *TSMC Nov. 2021 6994-7007*

He, W., Gao, H., Zhou, C., Yang, C., and Li, Z., Reinforcement Learning Control of a Flexible Two-Link Manipulator: An Experimental Investigation; *TSMC Dec. 2021 7326-7336*

He, X., *see* Zhao, Z., *TSMC April 2021 2382-2390*

He, X., Zhao, Z., Su, J., Yang, Q., and Zhu, D., Adaptive Inverse Control of a Vibrating Coupled Vessel-Riser System With Input Backlash; *TSMC Aug. 2021 4706-4715*

He, Y., *see* Hong, R., *TSMC March 2021 1434-1445*

He, Y., *see* Long, F., *TSMC April 2021 2457-2466*

He, Y., *see* Wu, D., *TSMC July 2021 4285-4296*

He, Y., *see* Liu, Y., *TSMC Sept. 2021 5614-5625*

He, Y., *see* Lu, C., *TSMC Oct. 2021 6085-6095*

He, Y., *see* Lian, Z., *TSMC Oct. 2021 6477-6487*

Hei, X., *see* Xie, G., *TSMC May 2021 2980-2989*

Herrera, F., *see* Herrera-Viedma, E., *TSMC Jan. 2021 191-208*

Herrera, F., *see* Dong, Y., *TSMC Oct. 2021 6304-6318*

Herrera-Viedma, E., *see* Tunstel, E., *TSMC Jan. 2021 5-21*

Herrera-Viedma, E., Palomares, I., Li, C., Cabrerizo, F.J., Dong, Y., Chiclana, F., and Herrera, F., Revisiting Fuzzy and Linguistic Decision Making: Scenarios and Challenges for Making Wiser Decisions in a Better Way; *TSMC Jan. 2021 191-208*

Herrera-Viedma, E., *see* Xu, Y., *TSMC June 2021 3498-3511*

Herrera-Viedma, E., *see* Zha, Q., *TSMC June 2021 3900-3910*

Herrera-Viedma, E., *see* Cao, M., *TSMC Oct. 2021 6134-6146*

Hettiarachchi, N., *see* Yang, X., *TSMC June 2021 3370-3379*

Hipel, K.W., and Fang, L., The Graph Model for Conflict Resolution and Decision Support; *TSMC Jan. 2021 131-141*

Hipel, K.W., *see* He, S., *TSMC March 2021 1424-1433*

Hipel, K.W., *see* Garcia, A., *TSMC March 2021 1716-1724*

Hipel, K.W., *see* Zhao, S., *TSMC June 2021 3911-3925*

Hirota, K., *see* Wu, M., *TSMC March 2021 1473-1484*

Ho, D.W.C., *see* Du, S., *TSMC Jan. 2021 487-496*

Ho, D.W.C., *see* Zhao, D., *TSMC June 2021 3926-3938*

Ho, D.W.C., *see* Dong, L., *TSMC Nov. 2021 6852-6862*

Ho, Y., *see* Shao, F., *TSMC May 2021 3053-3067*

Hoang, M.C., Nguyen, K.T., Le, V.H., Kim, J., Choi, E., Kang, B., Park, J., and Kim, C., Independent Electromagnetic Field Control for Practical Approach to Actively Locomotive Wireless Capsule Endoscope; *TSMC May 2021 3040-3052*

Hong, R., *see* Wu, L., *TSMC Jan. 2021 464-476*

Hong, R., He, Y., Wu, L., Ge, Y., and Wu, X., Deep Attributed Network Embedding by Preserving Structure and Attribute Information; *TSMC March 2021 1434-1445*

Hou, D., *see* Sun, Y., *TSMC April 2021 2091-2100*

Hou, J., *see* Xiao, L., *TSMC Aug. 2021 4729-4740*

Hou, T., Yu, J., Hu, C., and Jiang, H., Finite-Time Synchronization of Fractional-Order Complex-Variable Dynamic Networks; *TSMC July 2021 4297-4307*

Hou, Y., *see* Li, S., *TSMC Aug. 2021 4814-4824*

- Hou, Y.**, Ong, Y., Tang, J., and Zeng, Y., Evolutionary Multiagent Transfer Learning With Model-Based Opponent Behavior Prediction; *TSMC Oct. 2021* 5962-5976
- Hou, Z.**, see Hui, Y., *TSMC March 2021* 1881-1891
- Hou, Z.**, see Sun, T., *TSMC July 2021* 4193-4200
- Hou, Z.**, see Liu, G., *TSMC Sept. 2021* 5785-5799
- Hou, Z.**, see Hui, Y., *TSMC Dec. 2021* 7813-7822
- Hu, B.**, Zhou, C., Tian, Y., Hu, X., and Junping, X., Decentralized Consensus Decision-Making for Cybersecurity Protection in Multimicrogrid Systems; *TSMC April 2021* 2187-2198
- Hu, C.**, see Yang, S., *TSMC June 2021* 3739-3750
- Hu, C.**, see Hou, T., *TSMC July 2021* 4297-4307
- Hu, C.**, see Tang, S., *TSMC Aug. 2021* 4895-4910
- Hu, C.**, see Zhou, Z., *TSMC Aug. 2021* 4944-4958
- Hu, C.**, Gao, H., Guo, J., Taghavifar, H., Qin, Y., Na, J., and Wei, C., RISE-Based Integrated Motion Control of Autonomous Ground Vehicles With Asymptotic Prescribed Performance; *TSMC Sept. 2021* 5336-5348
- Hu, G.**, see Zhou, Z., *TSMC Aug. 2021* 4944-4958
- Hu, H.**, see Yang, B., *TSMC Aug. 2021* 5067-5079
- Hu, H.**, Song, S., and Huang, G., Self-Attention-Based Temporary Curiosity in Reinforcement Learning Exploration; *TSMC Sept. 2021* 5773-5784
- Hu, H.**, see Yang, B., *TSMC Sept. 2021* 5478-5489
- Hu, J.**, see Lu, Z., *TSMC May 2021* 2701-2711
- Hu, J.**, Zhang, H., Yu, X., Liu, H., and Chen, D., Design of Sliding-Mode-Based Control for Nonlinear Systems With Mixed-Delays and Packet Losses Under Uncertain Missing Probability; *TSMC May 2021* 3217-3228
- Hu, J.**, Wang, Z., Liu, G., Zhang, H., and Navaratne, R., A Prediction-Based Approach to Distributed Filtering With Missing Measurements and Communication Delays Through Sensor Networks; *TSMC Nov. 2021* 7063-7074
- Hu, K.**, see Wu, Y., *TSMC May 2021* 2810-2820
- Hu, M.**, see Wang, T., *TSMC Sept. 2021* 5289-5299
- Hu, P.**, see Ding, L., *TSMC Nov. 2021* 6779-6791
- Hu, Q.**, Shi, Y., and Wang, C., Event-Based Formation Coordinated Control for Multiple Spacecraft Under Communication Constraints; *TSMC May 2021* 3168-3179
- Hu, S.**, Yue, D., Chen, X., Cheng, Z., and Xie, X., Resilient H_∞ Filtering for Event-Triggered Networked Systems Under Nonperiodic DoS Jamming Attacks; *TSMC March 2021* 1392-1403
- Hu, S.**, Cheng, Z., Yue, D., Dou, C., and Xue, Y., Bandwidth Allocation-Based Switched Dynamic Triggering Control Against DoS Attacks; *TSMC Oct. 2021* 6050-6061
- Hu, W.**, and Zhu, Q., Stability Criteria for Impulsive Stochastic Functional Differential Systems With Distributed-Delay Dependent Impulsive Effects; *TSMC March 2021* 2027-2032
- Hu, W.**, see Wang, R., *TSMC April 2021* 2258-2268
- Hu, X.**, see Hu, B., *TSMC April 2021* 2187-2198
- Hu, X.**, see Ma, D., *TSMC April 2021* 2173-2186
- Hu, Z.**, Deng, F., Shi, P., and Lim, C., A New Approach to Characterize Successive Packet Losses in Stochastic Networked Systems; *TSMC Jan. 2021* 552-560
- Hu, Z.**, Shi, P., Zhang, J., and Deng, F., Control of Discrete-Time Stochastic Systems With Packet Loss by Event-Triggered Approach; *TSMC Feb. 2021* 755-764
- Hua, C.**, see Ge, C., *TSMC Jan. 2021* 391-399
- Hua, C.**, see Yang, X., *TSMC Feb. 2021* 1054-1063
- Hua, C.**, see Zhao, G., *TSMC Aug. 2021* 4911-4919
- Hua, C.**, Qiu, Y., and Guan, X., Event-Triggered Iterative Learning Containment Control of Model-Free Multiagent Systems; *TSMC Dec. 2021* 7719-7726
- Hua, M.**, Zheng, D., Deng, F., Fei, J., Cheng, P., and Dai, X., H_∞ Filtering for Nonhomogeneous Markovian Jump Repeated Scalar Nonlinear Systems With Multiplicative Noises and Partially Mode-Dependent Characterization; *TSMC May 2021* 3180-3192
- Hua, X.**, see Dong, Y., *TSMC Aug. 2021* 5056-5066
- Hua, Z.**, and Zhou, Y., Exponential Chaotic Model for Generating Robust Chaos; *TSMC June 2021* 3713-3724
- Huaimin, W.**, see Xiang, F., *TSMC April 2021* 2415-2424
- Huang, B.**, see Vicente, A., *TSMC Feb. 2021* 765-774
- Huang, B.**, see Hui, Y., *TSMC March 2021* 1881-1891
- Huang, B.**, see Lin, N., *TSMC June 2021* 3358-3369
- Huang, B.**, see Lin, N., *TSMC July 2021* 4048-4056
- Huang, B.**, Zou, Y., and Meng, Z., Distributed-Observer-Based Nash Equilibrium Seeking Algorithm for Quadratic Games With Nonlinear Dynamics; *TSMC Nov. 2021* 7260-7268
- Huang, B.**, see Hui, Y., *TSMC Dec. 2021* 7813-7822
- Huang, C.**, Zhang, H., Wang, Z., and Yan, H., Output-Feedback Adaptive Control of Nonlinear Systems With Input-Output-Dependent Lower-Triangular Growth Rate: A Logic-Based Switching Approach; *TSMC Aug. 2021* 4804-4813
- Huang, D.**, Wang, C., Peng, H., Lai, J., and Kwoh, C., Enhanced Ensemble Clustering via Fast Propagation of Cluster-Wise Similarities; *TSMC Jan. 2021* 508-520
- Huang, D.**, Chen, Y., Meng, D., and Sun, P., Adaptive Iterative Learning Control for High-Speed Train: A Multi-Agent Approach; *TSMC July 2021* 4067-4077
- Huang, G.**, see Yang, L., *TSMC July 2021* 4262-4273
- Huang, G.**, see Hu, H., *TSMC Sept. 2021* 5773-5784
- Huang, H.**, see Savkin, A.V., *TSMC July 2021* 4606-4610
- Huang, J.**, see Yang, Y., *TSMC Sept. 2021* 5557-5566
- Huang, J.**, see Qiao, S., *TSMC Oct. 2021* 6229-6243
- Huang, L.**, see Wang, M., *TSMC Dec. 2021* 7613-7621
- Huang, N.**, see Sun, Z., *TSMC July 2021* 4308-4320
- Huang, P.**, see Liu, Y., *TSMC Aug. 2021* 4883-4894
- Huang, T.**, see Yang, C., *TSMC Jan. 2021* 370-377
- Huang, T.**, see Wang, F., *TSMC Feb. 2021* 1313-1321
- Huang, T.**, see Wen, S., *TSMC March 2021* 1794-1804
- Huang, T.**, see Shen, H., *TSMC June 2021* 3608-3616
- Huang, T.**, see Liang, H., *TSMC June 2021* 3889-3899
- Huang, T.**, see Xu, Y., *TSMC July 2021* 4379-4388
- Huang, T.**, see Wang, J., *TSMC Aug. 2021* 4848-4857
- Huang, T.**, see Li, H., *TSMC Aug. 2021* 5153-5164
- Huang, T.**, see Lu, Q., *TSMC Oct. 2021* 6258-6270
- Huang, T.**, see Wan, Y., *TSMC Oct. 2021* 6183-6196
- Huang, T.**, see Wen, S., *TSMC Nov. 2021* 7250-7259
- Huang, X.**, Wu, W., and Qiao, H., Connecting Model-Based and Model-Free Control With Emotion Modulation in Learning Systems; *TSMC Aug. 2021* 4624-4638
- Huang, X.**, see Yan, Z., *TSMC Nov. 2021* 6712-6722
- Huang, X.**, and Dong, J., ADP-Based Robust Resilient Control of Partially Unknown Nonlinear Systems via Cooperative Interaction Design; *TSMC Dec. 2021* 7466-7474
- Huang, Y.**, Wu, J., Ren, W., Tse, C.K., and Zheng, Z., Sequential Restorations of Complex Networks After Cascading Failures; *TSMC Jan. 2021* 400-411
- Huang, Y.**, see Ping, Z., *TSMC June 2021* 3751-3758
- Huang, Y.**, see Yuan, J., *TSMC Sept. 2021* 5377-5391
- Huang, Y.**, see Lin, P., *TSMC Dec. 2021* 7882-7888
- Huang, Z.**, see Jin, B., *TSMC May 2021* 3068-3079
- Huang, Z.**, see Xu, Y., *TSMC July 2021* 4379-4388
- Huang, Z.**, see Shen, H., *TSMC Sept. 2021* 5535-5546
- Huang, Z.**, see Liu, J., *TSMC Nov. 2021* 6962-6975
- Hui, C.**, see Yang, W., *TSMC Feb. 2021* 875-884
- Hui, Y.**, Chi, R., Huang, B., and Hou, Z., Extended State Observer-Based Data-Driven Iterative Learning Control for Permanent Magnet Linear Motor With Initial Shifts and Disturbances; *TSMC March 2021* 1881-1891
- Hui, Y.**, Chi, R., Huang, B., Hou, Z., and Jin, S., Observer-Based Sampled-Data Model-Free Adaptive Control for Continuous-Time Nonlinear Nonaffine Systems With Input Rate Constraints; *TSMC Dec. 2021* 7813-7822
- Huo, X.**, see Ma, L., *TSMC Nov. 2021* 7051-7062
- Hwang, C.**, and Chen, B., Adaptive Finite-Time Saturated Tracking Control for a Class of Partially Known Robots; *TSMC Sept. 2021* 5674-5685

- Ignaciuk, P.**, and Morawski, M., Discrete-Time Sliding-Mode Controllers for MPTCP Networks; *TSMC Oct. 2021* 6029-6039
- Iqbal, N.**, see Rehman, A.U., *TSMC Nov. 2021* 7040-7050
- Issa, S.**, Peng, Q., and You, X., Emotion Classification Using EEG Brain Signals and the Broad Learning System; *TSMC Dec. 2021* 7382-7391
- Iu, H.H.C.**, see Wang, S., *TSMC April 2021* 2512-2524

J

- Jeong, M.K.**, see Tavakkol, B., *TSMC March 2021* 1690-1703
- Jha, N.K.**, see Akmandor, A.O., *TSMC Dec. 2021* 7553-7568
- Ji, H.**, see Chen, Z., *TSMC Nov. 2021* 7152-7163
- Ji, J.**, Yu, W., Zhong, J., and Zhang, J., Density-Enhanced Multiobjective Evolutionary Approach for Power Economic Dispatch Problems; *TSMC April 2021* 2054-2067
- Ji, L.**, Gao, T., and Liao, X., Couple-Group Consensus for Cooperative-Competitive Heterogeneous Multiagent Systems: Hybrid Adaptive and Pinning Methods; *TSMC Sept. 2021* 5367-5376
- Ji, W.**, Qiu, J., Wu, L., and Lam, H., Fuzzy-Affine-Model-Based Output Feedback Dynamic Sliding Mode Controller Design of Nonlinear Systems; *TSMC March 2021* 1652-1661
- Jia, Q.**, Sun, M., and Tang, W.K.S., Consensus of Multiagent Systems With Delayed Node Dynamics and Time-Varying Coupling; *TSMC June 2021* 3320-3329
- Jia, W.**, see Qu, M., *TSMC April 2021* 2145-2158
- Jia, W.**, see Liu, X., *TSMC June 2021* 3844-3854
- Jia, Y.**, Chen, W., Yuan, H., Gu, T., Zhang, H., Gao, Y., and Zhang, J., An Intelligent Cloud Workflow Scheduling System With Time Estimation and Adaptive Ant Colony Optimization; *TSMC Jan. 2021* 634-649
- Jia, Y.**, see Zhang, B., *TSMC March 2021* 1994-2002
- Jia, Y.**, Meng, K., Wu, K., Sun, C., and Dong, Z.Y., Optimal Load Frequency Control for Networked Power Systems Based on Distributed Economic MPC; *TSMC April 2021* 2123-2133
- Jia, Y.**, see Li, W., *TSMC Oct. 2021* 6599-6604
- Jia, Y.**, see Lu, X., *TSMC Dec. 2021* 7346-7362
- Jiang, B.**, Karimi, H.R., Yang, S., Kao, Y., and Gao, C., Takagi-Sugeno Model-Based Reliable Sliding Mode Control of Descriptor Systems With Semi-Markov Parameters: Average Dwell Time Approach; *TSMC March 2021* 1549-1558
- Jiang, B.**, see Xu, Y., *TSMC April 2021* 2403-2414
- Jiang, B.**, see Wen, L., *TSMC Aug. 2021* 5030-5045
- Jiang, B.**, see Wang, Y., *TSMC Nov. 2021* 6691-6700
- Jiang, B.**, see Kong, G., *TSMC Nov. 2021* 7131-7142
- Jiang, F.**, see Yang, L., *TSMC Oct. 2021* 5977-5991
- Jiang, G.**, see Wang, Z., *TSMC Feb. 2021* 1267-1277
- Jiang, G.**, see Shao, F., *TSMC May 2021* 3053-3067
- Jiang, G.**, see Xiao, M., *TSMC July 2021* 4334-4346
- Jiang, G.**, see Wang, X., *TSMC Dec. 2021* 7788-7800
- Jiang, H.**, see Yang, S., *TSMC June 2021* 3739-3750
- Jiang, H.**, see Hou, T., *TSMC July 2021* 4297-4307
- Jiang, J.**, see Li, J., *TSMC Feb. 2021* 696-704
- Jiang, J.**, An, B., Jiang, Y., Zhang, C., Bu, Z., and Cao, J., Group-Oriented Task Allocation for Crowdsourcing in Social Networks; *TSMC July 2021* 4417-4432
- Jiang, L.**, Kong, G., and Li, C., Wrapper Framework for Test-Cost-Sensitive Feature Selection; *TSMC March 2021* 1747-1756
- Jiang, L.**, see Long, F., *TSMC April 2021* 2457-2466
- Jiang, Q.**, see Shao, F., *TSMC May 2021* 3053-3067
- Jiang, T.**, see Cao, Y., *TSMC May 2021* 3026-3039
- Jiang, X.**, see Nienkötter, A., *TSMC Feb. 2021* 1244-1257
- Jiang, X.**, Qin, S., and Xue, X., Continuous-Time Algorithm for Approximate Distributed Optimization With Affine Equality and Convex Inequality Constraints; *TSMC Sept. 2021* 5809-5818
- Jiang, Y.**, see Lin, Y., *TSMC June 2021* 3725-3738
- Jiang, Y.**, see Jiang, J., *TSMC July 2021* 4417-4432
- Jiang, Y.**, see Wang, J., *TSMC July 2021* 4078-4090
- Jiang, Y.**, see Yuan, W., *TSMC Sept. 2021* 5600-5611

- Jiang, Z.**, see Liu, X., *TSMC May 2021* 3093-3102
- Jiang, Z.**, see Zhou, J., *TSMC Oct. 2021* 6015-6028
- Jiao, S.**, see Shen, H., *TSMC June 2021* 3608-3616
- Jin, B.**, Chen, E., Zhao, H., Huang, Z., Liu, Q., Zhu, H., and Yu, S., Promotion of Answer Value Measurement With Domain Effects in Community Question Answering Systems; *TSMC May 2021* 3068-3079
- Jin, D.**, Bai, X., and Wang, Y., Integrating Structural Symmetry and Local Homoplasmy Information in Intuitionistic Fuzzy Clustering for Infrared Pedestrian Segmentation; *TSMC July 2021* 4365-4378
- Jin, L.**, see Wei, L., *TSMC April 2021* 2611-2623
- Jin, L.**, see Li, W., *TSMC July 2021* 4028-4039
- Jin, L.**, see Xiao, L., *TSMC Aug. 2021* 4729-4740
- Jin, L.**, see Lu, H., *TSMC Sept. 2021* 5639-5651
- Jin, M.**, see Lin, C., *TSMC May 2021* 2926-2936
- Jin, S.**, see Hui, Y., *TSMC Dec. 2021* 7813-7822
- Jin, X.**, Lu, S., Qin, J., and Zheng, W.X., Auxiliary Constrained Control of a Class of Fault-Tolerant Systems; *TSMC April 2021* 2272-2283
- Jin, Y.**, see Chen, H., *TSMC June 2021* 3552-3564
- Jing, Y.**, see Liu, Y., *TSMC Oct. 2021* 6159-6169
- Johansson, K.H.**, see Yoo, J., *TSMC April 2021* 2571-2581
- Joo, Y.H.**, see Shanmugam, L., *TSMC Jan. 2021* 542-551
- Joo, Y.H.**, see Mani, P., *TSMC April 2021* 2221-2231
- Joo, Y.H.**, see Shanmugam, L., *TSMC April 2021* 2134-2144
- Joo, Y.H.**, see Subramaniam, R., *TSMC April 2021* 2212-2220
- Joo, Y.H.**, see Sharmila, V., *TSMC April 2021* 2199-2211
- Joo, Y.H.**, see Vadivel, R., *TSMC April 2021* 2232-2245
- Ju, S.**, see Yang, H., *TSMC Feb. 2021* 1345-1353
- Junping, X.**, see Hu, B., *TSMC April 2021* 2187-2198

K

- Kaiwartya, O.**, see Cao, Y., *TSMC May 2021* 3026-3039
- Kang, B.**, see Hoang, M.C., *TSMC May 2021* 3040-3052
- Kang, B.G.**, see Choi, S.H., *TSMC Feb. 2021* 1016-1026
- Kang, B.H.**, see Liu, Z., *TSMC May 2021* 3193-3204
- Kang, G.**, see Xia, X., *TSMC Sept. 2021* 5686-5697
- Kang, Y.**, see Li, P., *TSMC Dec. 2021* 7435-7449
- Kao, Y.**, see Jiang, B., *TSMC March 2021* 1549-1558
- Kao, Y.**, see Du, Z., *TSMC June 2021* 3488-3497
- Kapos, G.**, Tsadimas, A., Kotronis, C., Dalakas, V., Nikolaidou, M., and Anagnostopoulos, D., A Declarative Approach for Transforming SysML Models to Executable Simulation Models; *TSMC June 2021* 3330-3345
- Kar, I.N.**, see Rayguru, M.M., *TSMC Aug. 2021* 4681-4692
- Karimi, H.R.**, see Jiang, B., *TSMC March 2021* 1549-1558
- Karimi, H.R.**, see Ren, H., *TSMC March 2021* 1725-1734
- Karimi, H.R.**, see Guan, C., *TSMC May 2021* 2873-2884
- Karimi, H.R.**, see Sun, K., *TSMC June 2021* 3968-3979
- Karimi, H.R.**, see Liu, J., *TSMC Oct. 2021* 6544-6554
- Karimi, H.R.**, see Zhang, W., *TSMC Dec. 2021* 7542-7552
- Karimi, H.R.**, see Zong, G., *TSMC Dec. 2021* 7569-7578
- Karimi, H.R.**, see Zhang, Z., *TSMC Dec. 2021* 7602-7612
- Karoly, A.I.**, Galambos, P., Kuti, J., and Rudas, I.J., Deep Learning in Robotics: Survey on Model Structures and Training Strategies; *TSMC Jan. 2021* 266-279
- Kaviarasan, B.**, Kwon, O., Park, M.J., and Sakthivel, R., Integrated Synchronization and Anti-Disturbance Control Design for Fuzzy Model-Based Multi-weighted Complex Network; *TSMC Oct. 2021* 6330-6341
- Kaynak, O.**, see Yang, H., *TSMC June 2021* 3687-3698
- Keller, J.M.**, see Bezdek, J.C., *TSMC Jan. 2021* 91-102
- Khalgui, M.**, see Aissa, Y.B., *TSMC March 2021* 1446-1461
- Khan, A.Q.**, see Razaq, M.A., *TSMC March 2021* 1485-1495
- Khoo, S.**, see Qazani, M.R.C., *TSMC Oct. 2021* 6096-6110
- Kilgour, D.M.**, see He, S., *TSMC March 2021* 1424-1433
- Kilgour, D.M.**, see Wu, N., *TSMC Dec. 2021* 7889-7902
- Kim, C.**, see Hoang, M.C., *TSMC May 2021* 3040-3052
- Kim, J.**, see Aouaidia, K., *TSMC May 2021* 2774-2788
- Kim, J.**, see Hoang, M.C., *TSMC May 2021* 3040-3052

- Kim, J.**, Tracking Controllers to Chase a Target Using Multiple Autonomous Underwater Vehicles Measuring the Sound Emitted from the Target; *TSMC July 2021 4579-4587*
- Kim, S.**, Ahn, C.K., and Agarwal, R.K., Position-Tracking Controller for Two-Wheeled Balancing Robot Applications Using Invariant Dynamic Surface ; *TSMC Feb. 2021 705-711*
- Kim, S.**, and Ahn, C.K., Robust Invariant Manifold-Based Output Voltage-Tracking Controller for DC/DC Boost Power Conversion Systems; *TSMC March 2021 1582-1589*
- Kim, S.**, and Ahn, C.K., Variable Cut-Off Frequency Algorithm-Based Nonlinear Position Controller for Magnetic Levitation System Applications; *TSMC July 2021 4599-4605*
- Kim, T.G.**, see Choi, S.H., *TSMC Feb. 2021 1016-1026*
- Kim, W.**, Yu, T., and Lee, T., Integrated Scheduling of a Dual-Armed Cluster Tool for Maximizing Steady Schedule Patterns; *TSMC Dec. 2021 7282-7294*
- Kirar, J.S.**, see Gupta, A., *TSMC May 2021 3080-3092*
- Klancar, G.**, Seder, M., Blazic, S., Skrjanc, I., and Petrovic, I., Drivable Path Planning Using Hybrid Search Algorithm Based on E* and Bernstein-Bézier Motion Primitives; *TSMC Aug. 2021 4868-4882*
- Kolmanovsky, I.**, see Li, N., *TSMC Jan. 2021 116-130*
- Kong, G.**, see Jiang, L., *TSMC March 2021 1747-1756*
- Kong, G.**, Xu, D., Yang, J., Wang, T., and Jiang, B., Evidential Reasoning Rule-Based Decision Support System for Predicting ICU Admission and In-Hospital Death of Trauma; *TSMC Nov. 2021 7131-7142*
- Kong, L.**, He, W., Dong, Y., Cheng, L., Yang, C., and Li, Z., Asymmetric Bounded Neural Control for an Uncertain Robot by State Feedback and Output Feedback; *TSMC March 2021 1735-1746*
- Kong, L.**, see Zhang, S., *TSMC July 2021 4091-4101*
- Kong, L.**, see Dong, Y., *TSMC Aug. 2021 5056-5066*
- Kong, S.**, Tian, M., Qiu, C., Wu, Z., and Yu, J., IWSR: An Intelligent Water Surface Cleaner Robot for Collecting Floating Garbage; *TSMC Oct. 2021 6358-6368*
- Kong, X.**, see Liu, X., *TSMC July 2021 4238-4250*
- Kong, Y.**, see Zhang, P., *TSMC March 2021 1805-1816*
- Kosko, B.**, Bidirectional Associative Memories: Unsupervised Hebbian Learning to Bidirectional Backpropagation; *TSMC Jan. 2021 103-115*
- Kosko, B.**, Erratum to “Bidirectional Associative Memories: Unsupervised Hebbian Learning to Bidirectional Backpropagation” *TSMC April 2021 2635*
- Kotronis, C.**, see Kapos, G., *TSMC June 2021 3330-3345*
- Koubaa, A.**, see Aissa, Y.B., *TSMC March 2021 1446-1461*
- Kozma, R.**, see Tunstel, E., *TSMC Jan. 2021 5-21*
- Kozma, R.**, and Rudas, I.J., Editorial to the 50th Anniversary Issue; *TSMC Jan. 2021 2-4*
- Kruger, U.**, see Liu, Y., *TSMC Sept. 2021 5614-5625*
- Kumar, I.V.**, see Bhandari, A.K., *TSMC May 2021 2760-2773*
- Kumar, R.**, see Talukder, S., *TSMC April 2021 2159-2172*
- Kumar, R.**, Strasser, T.I., Deconinck, G., Lai, C.S., and Lai, L.L., Special Issue on Recent Advances for Intelligence in Power and Energy Systems; *TSMC April 2021 2036-2040*
- Kumar, S.**, Savur, C., and Sahin, F., Survey of Human-Robot Collaboration in Industrial Settings: Awareness, Intelligence, and Compliance; *TSMC Jan. 2021 280-297*
- Kuo, C.**, Tsai, C., and Lee, C., Intelligent Leader-Following Consensus Formation Control Using Recurrent Neural Networks for Small-Size Unmanned Helicopters; *TSMC Feb. 2021 1288-1301*
- Kurths, J.**, see Yang, Y., *TSMC Sept. 2021 5800-5808*
- Kuti, J.**, see Karoly, A.I., *TSMC Jan. 2021 266-279*
- Kwoh, C.**, see Huang, D., *TSMC Jan. 2021 508-520*
- Kwon, O.**, see Kaviarasan, B., *TSMC Oct. 2021 6330-6341*
- Kwong, S.**, see Song, A., *TSMC Feb. 2021 927-942*
- L**
- Lai, C.S.**, see Kumar, R., *TSMC April 2021 2036-2040*
- Lai, J.**, see Huang, D., *TSMC Jan. 2021 508-520*
- Lai, J.**, see Xiao, X., *TSMC June 2021 3412-3428*
- Lai, L.L.**, see Kumar, R., *TSMC April 2021 2036-2040*
- Lai, X.**, see Yan, Z., *TSMC March 2021 1671-1678*
- Lai, X.**, see Chu, H., *TSMC April 2021 2391-2402*
- Lai, Z.**, Feng, X., Yu, H., and Luo, F., A Parallel Social Spider Optimization Algorithm Based on Emotional Learning; *TSMC Feb. 2021 797-808*
- Lam, H.**, see Ji, W., *TSMC March 2021 1652-1661*
- Lam, H.**, see Meng, A., *TSMC Dec. 2021 7707-7718*
- Lam, J.**, see Wu, H., *TSMC July 2021 4057-4066*
- Lam, J.**, see Liu, J.J.R., *TSMC Oct. 2021 6207-6217*
- Lam, J.**, see Cao, Z., *TSMC Dec. 2021 7752-7763*
- Lambert, B.**, see Aizpurua, J.I., *TSMC Jan. 2021 621-633*
- Lan, J.**, see Zhang, L., *TSMC Feb. 2021 1149-1163*
- Lan, R.**, see Liu, L., *TSMC Dec. 2021 7314-7325*
- Lan, X.**, see Zhang, H., *TSMC May 2021 3014-3025*
- Lasang, P.**, see Liu, Y., *TSMC Aug. 2021 4716-4728*
- Le, V.H.**, see Hoang, M.C., *TSMC May 2021 3040-3052*
- Lee, C.**, see Kuo, C., *TSMC Feb. 2021 1288-1301*
- Lee, K.**, Effect of Asynchronous Communications on Stationary Solutions for Discrete-Time Multiagent Systems; *TSMC June 2021 3450-3463*
- Lee, K.Y.**, see Liu, X., *TSMC July 2021 4238-4250*
- Lee, S.**, see Do, V., *TSMC Nov. 2021 7214-7227*
- Lee, T.**, see Kim, W., *TSMC Dec. 2021 7282-7294*
- Lei, J.**, see Zhou, W., *TSMC June 2021 3641-3649*
- Leng, J.**, Ye, S., Zhou, M., Zhao, J.L., Liu, Q., Guo, W., Cao, W., and Fu, L., Blockchain-Secured Smart Manufacturing in Industry 4.0: A Survey; *TSMC Jan. 2021 237-252*
- Leon, J.I.**, see Yin, Y., *TSMC Feb. 2021 674-685*
- Leung, V.C.M.**, see Xiong, N., *TSMC July 2021 4112-4126*
- Lewis, F.L.**, see Liu, H., *TSMC Feb. 2021 1215-1223*
- Lewis, F.L.**, see He, C., *TSMC June 2021 3876-3888*
- Lewis, F.L.**, see Liu, D., *TSMC July 2021 4102-4111*
- Lewis, F.L.**, see Ye, M., *TSMC Dec. 2021 7413-7422*
- Lewis, F.L.**, see Hashim, H.A., *TSMC Dec. 2021 7587-7600*
- Li, C.**, see Herrera-Viedma, E., *TSMC Jan. 2021 191-208*
- Li, C.**, see Xu, M., *TSMC March 2021 1567-1581*
- Li, C.**, see Jiang, L., *TSMC March 2021 1747-1756*
- Li, C.**, see Lin, W., *TSMC April 2021 2355-2369*
- Li, C.**, see Chen, Y., *TSMC July 2021 4359-4364*
- Li, C.**, see Li, H., *TSMC Nov. 2021 7087-7098*
- Li, D.**, Lu, S., and Liu, L., Adaptive NN Cross Backstepping Control for Nonlinear Systems With Partial Time-Varying State Constraints and Its Applications to Hyper-Chaotic Systems ; *TSMC May 2021 2821-2832*
- Li, D.**, Wang, D., Liu, L., and Gao, Y., Adaptive Finite-Time Tracking Control for Continuous Stirred Tank Reactor With Time-Varying Output Constraint; *TSMC Sept. 2021 5929-5934*
- Li, D.**, see Liu, J., *TSMC Nov. 2021 6962-6975*
- Li, F.**, see Liu, X., *TSMC Feb. 2021 965-974*
- Li, F.**, Xu, S., Shen, H., and Zhang, Z., Extended Dissipativity-Based Control for Hidden Markov Jump Singularly Perturbed Systems Subject to General Probabilities; *TSMC Sept. 2021 5752-5761*
- Li, F.**, see Du, C., *TSMC Oct. 2021 6003-6014*
- Li, F.**, see Sun, H., *TSMC Oct. 2021 6218-6228*
- Li, G.**, see Guo, F., *TSMC April 2021 2041-2053*
- Li, G.**, see Wu, X., *TSMC Aug. 2021 4693-4705*
- Li, G.**, see Gao, W., *TSMC Sept. 2021 5652-5663*
- Li, G.**, see Sun, X., *TSMC Oct. 2021 6111-6121*
- Li, H.**, see Wang, B., *TSMC Jan. 2021 574-587*
- Li, H.**, see Cao, L., *TSMC March 2021 1380-1391*
- Li, H.**, see Hao, L., *TSMC March 2021 2012-2026*
- Li, H.**, see Wang, Z., *TSMC May 2021 2789-2797*
- Li, H.**, see Wu, Y., *TSMC May 2021 3251-3262*
- Li, H.**, see Cao, L., *TSMC June 2021 3855-3866*
- Li, H.**, Han, C., Zhang, H., and Xie, L., Optimal Control and Stabilization for Networked Systems With Input Delay and Markovian Packet Losses; *TSMC July 2021 4453-4465*
- Li, H.**, see Zhou, T., *TSMC Aug. 2021 4920-4928*
- Li, H.**, see Sun, M., *TSMC Aug. 2021 5017-5029*

- Li, H., Lu, Q., Chen, G., Huang, T., and Dong, Z., Convergence of Distributed Accelerated Algorithm Over Unbalanced Directed Networks; *TSMC Aug. 2021 5153-5164*
- Li, H., and Sun, M., Repetitive Learning Control for Control-Affine Systems With Time Delays; *TSMC Aug. 2021 5142-5152*
- Li, H., Wang, Z., Xia, D., and Han, Q., Random Sleep Scheme-Based Distributed Optimization Algorithm Over Unbalanced Time-Varying Networks; *TSMC Aug. 2021 5244-5253*
- Li, H., see Feng, Y., *TSMC Sept. 2021 5698-5707*
- Li, H., see Yuan, W., *TSMC Sept. 2021 5600-5611*
- Li, H., see Lu, Q., *TSMC Oct. 2021 6258-6270*
- Li, H., see Zhou, Q., *TSMC Oct. 2021 6369-6380*
- Li, H., see Deng, M., *TSMC Oct. 2021 6388-6403*
- Li, H., see Yu, X., *TSMC Nov. 2021 6994-7007*
- Li, H., see Ding, K., *TSMC Nov. 2021 7017-7026*
- Li, H., Li, C., Ouyang, D., and Nguang, S.K., Impulsive Stabilization of Nonlinear Time-Delay System With Input Saturation via Delay-Dependent Polytropic Approach; *TSMC Nov. 2021 7087-7098*
- Li, H., see Lin, W., *TSMC Dec. 2021 7870-7881*
- Li, J., see Shi, Y., *TSMC Feb. 2021 809-821*
- Li, J., Zhao, D., Jiang, J., Yang, K., and Chen, Y., Capability Oriented Equipment Contribution Analysis in Temporal Combat Networks; *TSMC Feb. 2021 696-704*
- Li, J., see Niu, B., *TSMC Feb. 2021 975-986*
- Li, J., see Gao, F., *TSMC March 2021 1404-1413*
- Li, J., see Yang, X., *TSMC March 2021 1779-1793*
- Li, J., see Zhang, H., *TSMC May 2021 3014-3025*
- Li, J., see Xiao, L., *TSMC June 2021 3629-3640*
- Li, J., Liu, X., Su, X., Liu, B., and Liu, J., H_∞ Filtering of Repeated Scalar Nonlinear Systems: Event-Triggered Communication Case; *TSMC June 2021 3392-3400*
- Li, J., see Niu, B., *TSMC July 2021 4566-4578*
- Li, J., see Xu, Y., *TSMC Sept. 2021 5721-5731*
- Li, J., Wang, Z., Ahn, C.K., and Shen, Y., Fault Detection for Lipschitz Nonlinear Systems With Restricted Frequency-Domain Specifications; *TSMC Dec. 2021 7486-7496*
- Li, K., see Zhang, H., *TSMC April 2021 2080-2090*
- Li, K., Zhang, H., Zhu, G., Small, M., and Fu, X., Suboptimal Control and Targeted Constant Control for Semi-Random Epidemic Networks ; *TSMC April 2021 2602-2610*
- Li, L., see Yang, R., *TSMC May 2021 2737-2750*
- Li, L., Shi, P., Agarwal, R.K., Ahn, C.K., and Xing, W., Event-Triggered Model Predictive Control for Multiagent Systems With Communication Constraints; *TSMC May 2021 3304-3316*
- Li, L., see Yu, D., *TSMC Aug. 2021 5165-5173*
- Li, L., see Cheng, S., *TSMC Nov. 2021 6901-6910*
- Li, L., Song, L., Li, T., and Fu, J., Event-Triggered Output Regulation for Networked Flight Control System Based on an Asynchronous Switched System Approach; *TSMC Dec. 2021 7675-7684*
- Li, M., see Xu, Y., *TSMC June 2021 3498-3511*
- Li, M., Chen, Y., and Lim, C., Stability Analysis of Complex Network Control System With Dynamical Topology and Delays; *TSMC Nov. 2021 7228-7237*
- Li, N., Kolmanovskiy, I., Girard, A., and Filev, D., Fuzzy Encoded Markov Chains: Overview, Observer Theory, and Applications; *TSMC Jan. 2021 116-130*
- Li, P., see Wang, L., *TSMC April 2021 2536-2549*
- Li, P., see Aouaidjia, K., *TSMC May 2021 2774-2788*
- Li, P., see Yang, L., *TSMC Oct. 2021 5977-5991*
- Li, P., Kang, Y., Zhao, Y., and Wang, T., Networked Dual-Mode Adaptive Horizon MPC for Constrained Nonlinear Systems; *TSMC Dec. 2021 7435-7449*
- Li, Q., see Wang, X., *TSMC March 2021 2003-2011*
- Li, Q., Xia, L., and Song, R., Novel Resilient Structure of Output Formation Tracking of Heterogeneous Systems With Unknown Leader Under Contested Environments; *TSMC Nov. 2021 6819-6829*
- Li, R., and Yang, Y., Sliding-Mode Observer-Based Fault Reconstruction for T-S Fuzzy Descriptor Systems; *TSMC Aug. 2021 5046-5055*
- Li, R., see Qiao, S., *TSMC Oct. 2021 6229-6243*
- Li, S., see Luo, X., *TSMC Jan. 2021 610-620*
- Li, S., Ahn, C.K., Guo, J., and Xiang, Z., Global Output Feedback Sampled-Data Stabilization of a Class of Switched Nonlinear Systems in the p -Normal Form; *TSMC Feb. 2021 1075-1084*
- Li, S., see Zhang, Y., *TSMC Feb. 2021 721-730*
- Li, S., see Sun, J., *TSMC May 2021 3148-3158*
- Li, S., see Yang, L., *TSMC July 2021 4262-4273*
- Li, S., An, X., Ding, L., Wang, Q., Gao, H., Hou, Y., and Deng, Z., Adaptive Neural Network-Based Finite-Time Tracking Control for Nonstrict Non-affined MIMO Nonlinear Systems; *TSMC Aug. 2021 4814-4824*
- Li, S., see Xiao, L., *TSMC Aug. 2021 4729-4740*
- Li, S., see Liu, Y., *TSMC Sept. 2021 5614-5625*
- Li, S., see Lu, H., *TSMC Sept. 2021 5639-5651*
- Li, S., Ahn, C.K., Guo, J., and Xiang, Z., Neural Network-Based Sampled-Data Control for Switched Uncertain Nonlinear Systems; *TSMC Sept. 2021 5437-5445*
- Li, S., see Deng, M., *TSMC Oct. 2021 6388-6403*
- Li, S., see Zhu, W., *TSMC Nov. 2021 6768-6778*
- Li, S., and Lian, J., Almost Sure Stability of Markov Jump Systems With Persistent Dwell Time Switching; *TSMC Nov. 2021 6681-6690*
- Li, T., see Zhang, Y., *TSMC Feb. 2021 1354-1364*
- Li, T., see Wang, X., *TSMC June 2021 3771-3780*
- Li, T., see Li, Y., *TSMC Oct. 2021 6040-6049*
- Li, T., see Ding, L., *TSMC Nov. 2021 6779-6791*
- Li, T., see Li, L., *TSMC Dec. 2021 7675-7684*
- Li, W., Liu, L., and Feng, G., Distributed Output-Feedback Tracking of Multiple Nonlinear Systems With Unmeasurable States; *TSMC Jan. 2021 477-486*
- Li, W., see Wei, L., *TSMC April 2021 2611-2623*
- Li, W., see Wu, Y., *TSMC May 2021 3251-3262*
- Li, W., see Xiao, L., *TSMC June 2021 3629-3640*
- Li, W., Ma, X., Luo, J., and Jin, L., A Strictly Predefined-Time Convergent Neural Solution to Equality- and Inequality-Constrained Time-Variant Quadratic Programming; *TSMC July 2021 4028-4039*
- Li, W., see Xiao, L., *TSMC Aug. 2021 4729-4740*
- Li, W., see Sun, M., *TSMC Aug. 2021 5017-5029*
- Li, W., see Du, C., *TSMC Oct. 2021 6003-6014*
- Li, W., Xiong, K., Jia, Y., and Du, J., Distributed Kalman Filter for Multitarget Tracking Systems With Coupled Measurements; *TSMC Oct. 2021 6599-6604*
- Li, W., and Guo, L., Robust Particle Filtering With Time-Varying Model Uncertainty and Inaccurate Noise Covariance Matrix; *TSMC Nov. 2021 7099-7108*
- Li, X., see Wang, N., *TSMC Feb. 2021 822-832*
- Li, X., see Niu, B., *TSMC Feb. 2021 975-986*
- Li, X., see Wan, K., *TSMC March 2021 1462-1472*
- Li, X., see Xu, H., *TSMC May 2021 2860-2872*
- Li, X., see Tan, P., *TSMC July 2021 4466-4478*
- Li, X., see Liu, Z., *TSMC July 2021 4217-4226*
- Li, X., see Peng, X., *TSMC Aug. 2021 4929-4935*
- Li, X., Du, S., and Zhao, X., Stability and ℓ_1 -Gain Analysis for Switched Positive Systems With MDADT Based on Quasi-Time-Dependent Approach; *TSMC Sept. 2021 5846-5854*
- Li, X., see Shen, X., *TSMC Sept. 2021 5708-5720*
- Li, X., see Liu, Y., *TSMC Oct. 2021 6159-6169*
- Li, X., see Wan, K., *TSMC Oct. 2021 5949-5961*
- Li, X., Zhu, H., and Song, S., Input-to-State Stability of Nonlinear Systems Using Observer-Based Event-Triggered Impulsive Control; *TSMC Nov. 2021 6892-6900*
- Li, X., see Zhao, Y., *TSMC Dec. 2021 7337-7345*
- Li, X., Mehran, K., and Bao, Z., Stability Analysis of Discrete-Time Polynomial Fuzzy-Model-Based Control Systems With Time Delay and Positivity Constraints Through Piecewise Taylor Series Membership Functions; *TSMC Dec. 2021 7517-7529*
- Li, X., Wen, C., and Zou, Y., Adaptive Backstepping Control for Fractional-Order Nonlinear Systems With External Disturbance and Uncertain Parameters Using Smooth Control; *TSMC Dec. 2021 7860-7869*
- Li, X.R., see Zhang, L., *TSMC Feb. 2021 1149-1163*

- Li, Y., Wang, Q., and Tong, S., Fuzzy Adaptive Fault-Tolerant Control of Fractional-Order Nonlinear Systems; *TSMC March 2021 1372-1379*
- Li, Y., Luo, B., Liu, D., Yang, Y., and Yang, Z., Robust Exponential Synchronization for Memristor Neural Networks With Nonidentical Characteristics by Pinning Control; *TSMC March 2021 1966-1980*
- Li, Y., see Lu, Z., *TSMC May 2021 2701-2711*
- Li, Y., and Yang, G., Optimal Stealthy Innovation-Based Attacks With Historical Data in Cyber-Physical Systems; *TSMC June 2021 3401-3411*
- Li, Y., Wei, Y., Chen, Y., and Wang, Y., A Universal Framework of the Generalized Kalman–Yakubovich–Popov Lemma for Singular Fractional-Order Systems; *TSMC Aug. 2021 5209-5217*
- Li, Y., see Yang, Y., *TSMC Sept. 2021 5800-5808*
- Li, Y., see Wu, W., *TSMC Sept. 2021 5522-5534*
- Li, Y., Chen, M., Li, T., and Wang, H., Robust Resilient Control Based on Multi-Approximator for the Uncertain Turbofan System With Unmeasured States and Disturbances; *TSMC Oct. 2021 6040-6049*
- Li, Y., Xiang, W., Zhang, H., Xia, J., and Zheng, Q., New Stability Conditions for Switched Linear Systems: A Reverse-Timer-Dependent Multiple Discontinuous Lyapunov Function Approach; *TSMC Oct. 2021 6564-6575*
- Li, Z., see Aissa, Y.B., *TSMC March 2021 1446-1461*
- Li, Z., see Gao, F., *TSMC March 2021 1404-1413*
- Li, Z., see Qiao, Y., *TSMC March 2021 1612-1629*
- Li, Z., see Kong, L., *TSMC March 2021 1735-1746*
- Li, Z., see Tian, G., *TSMC March 2021 1855-1868*
- Li, Z., see Yuan, W., *TSMC April 2021 2624-2634*
- Li, Z., see Wu, Z., *TSMC May 2021 3263-3269*
- Li, Z., see Yang, C., *TSMC May 2021 3282-3292*
- Li, Z., Chang, X., and Park, J.H., Quantized Static Output Feedback Fuzzy Tracking Control for Discrete-Time Nonlinear Networked Systems With Asynchronous Event-Triggered Constraints; *TSMC June 2021 3820-3831*
- Li, Z., see Chen, H., *TSMC July 2021 4347-4358*
- Li, Z., see Wang, J., *TSMC July 2021 4078-4090*
- Li, Z., You, K., Song, S., and Xue, A., Optimization-Based Control for Bearing-Only Target Search With a Mobile Vehicle; *TSMC July 2021 4149-4159*
- Li, Z., see Lu, Q., *TSMC Nov. 2021 6874-6884*
- Li, Z., see Qiao, Y., *TSMC Nov. 2021 6792-6807*
- Li, Z., see Tian, Y., *TSMC Nov. 2021 6639-6649*
- Li, Z., Yan, J., Yu, W., and Qiu, J., Event-Triggered Control for a Class of Nonlinear Multiagent Systems With Directed Graph; *TSMC Nov. 2021 6986-6993*
- Li, Z., see Zhang, K., *TSMC Nov. 2021 7191-7200*
- Li, Z., see He, W., *TSMC Dec. 2021 7326-7336*
- Lian, J., see Li, S., *TSMC Nov. 2021 6681-6690*
- Lian, Z., He, Y., Shi, P., and Wu, M., A New Filter Design Method for a Class of Fuzzy Systems With Time Delays; *TSMC Oct. 2021 6477-6487*
- Liang, H., see Chen, X., *TSMC April 2021 2299-2311*
- Liang, H., see Zhang, L., *TSMC April 2021 2370-2381*
- Liang, H., see Du, P., *TSMC May 2021 3136-3147*
- Liang, H., Zhang, L., Sun, Y., and Huang, T., Containment Control of Semi-Markovian Multiagent Systems With Switching Topologies; *TSMC June 2021 3889-3899*
- Liang, J., see Meng, D., *TSMC Aug. 2021 5174-5188*
- Liang, Q., see Wang, L., *TSMC Feb. 2021 853-863*
- Liang, X., Zhang, D., Lu, G., Guo, Z., and Luo, N., A Novel Multicamera System for High-Speed Touchless Palm Recognition; *TSMC March 2021 1534-1548*
- Liang, X., Fang, Y., Sun, N., Lin, H., and Zhao, X., Adaptive Nonlinear Hierarchical Control for a Rotorcraft Transporting a Cable-Suspended Payload; *TSMC July 2021 4171-4182*
- Liang, X., see Cui, L., *TSMC Oct. 2021 6282-6292*
- Liao, L., see Zhang, Y., *TSMC Feb. 2021 721-730*
- Liao, Q., see Yang, W., *TSMC Feb. 2021 875-884*
- Liao, X., see Wang, A., *TSMC July 2021 4520-4531*
- Liao, X., see Ji, L., *TSMC Sept. 2021 5367-5376*
- Liao, X., see Lu, Q., *TSMC Oct. 2021 6258-6270*
- Liew, A.W., see Zhao, T., *TSMC Aug. 2021 5090-5104*
- Lim, C., see Hu, Z., *TSMC Jan. 2021 552-560*
- Lim, C., see Li, M., *TSMC Nov. 2021 7228-7237*
- Lin, C., and Do, T.N., Direct-Sense Brain–Computer Interfaces and Wearable Computers; *TSMC Jan. 2021 298-312*
- Lin, C., see Liu, Z., *TSMC April 2021 2322-2331*
- Lin, C., Chen, L., Wu, H., Jin, M., Chen, G., Garcia Gomez, J.L., and Chou, C., An Indoor Positioning Algorithm Based on Fingerprint and Mobility Prediction in RSS Fluctuation-Prone WLANs; *TSMC May 2021 2926-2936*
- Lin, C., see Gupta, A., *TSMC May 2021 3080-3092*
- Lin, C., see Liu, Z., *TSMC May 2021 3193-3204*
- Lin, C., see Nguyen, V., *TSMC Dec. 2021 7838-7849*
- Lin, D., see Wang, J., *TSMC July 2021 4078-4090*
- Lin, H., see Liang, X., *TSMC July 2021 4171-4182*
- Lin, H., and Sun, S., Estimation for Networked Random Sampling Systems With Packet Losses; *TSMC Sept. 2021 5511-5521*
- Lin, L., Cao, J., Abdel-Aty, M., and Al-Juboori, U.A., Topological Structure, Reachability, and Stabilization of Constrained Boolean Control Networks via Event-Triggered Control; *TSMC June 2021 3565-3574*
- Lin, N., Chi, R., and Huang, B., Event-Triggered Model-Free Adaptive Control; *TSMC June 2021 3358-3369*
- Lin, N., Chi, R., and Huang, B., Auxiliary Predictive Compensation-Based ILC for Variable Pass Lengths; *TSMC July 2021 4048-4056*
- Lin, P., Huang, Y., Zhang, Q., and Yuan, Z., Distributed Velocity and Input Constrained Tracking Control of High-Speed Train Systems; *TSMC Dec. 2021 7882-7888*
- Lin, W., Wang, Y., Li, C., and Xiao, J., Global Optimization: A Distributed Compensation Algorithm and its Convergence Analysis; *TSMC April 2021 2355-2369*
- Lin, W., see Gao, H., *TSMC Dec. 2021 7305-7313*
- Lin, W., Zhang, B., Yao, D., Li, H., and Lu, R., Adaptive Neural Sliding Mode Control of Markov Jump Systems Subject to Malicious Attacks; *TSMC Dec. 2021 7870-7881*
- Lin, X., see Cheng, Y., *TSMC July 2021 4040-4047*
- Lin, Y., see Gong, Y., *TSMC May 2021 2712-2725*
- Lin, Y., Wang, X., Hao, F., Jiang, Y., Wu, Y., Min, G., He, D., Zhu, S., and Zhao, W., Dynamic Control of Fraud Information Spreading in Mobile Social Networks; *TSMC June 2021 3725-3738*
- Ling, Q., see Dou, R., *TSMC Sept. 2021 5322-5335*
- Ling, Z., Tao, X., Zhang, Y., and Chen, X., Solving Optimization Problems Through Fully Convolutional Networks: An Application to the Traveling Salesman Problem; *TSMC Dec. 2021 7475-7485*
- Liu, A., see Liu, X., *TSMC June 2021 3844-3854*
- Liu, B., see Li, J., *TSMC June 2021 3392-3400*
- Liu, B., see Deng, M., *TSMC Oct. 2021 6388-6403*
- Liu, C., Zhang, T., Zhang, C., Liu, M., and Chen, Q., Foot Placement Compensator Design for Humanoid Walking Based on Discrete Control Lyapunov Function; *TSMC April 2021 2332-2341*
- Liu, C., see Ni, J., *TSMC April 2021 2550-2560*
- Liu, C., Wang, H., Liu, X., and Zhou, Y., Adaptive Finite-Time Fuzzy Funnel Control for Nonaffine Nonlinear Systems; *TSMC May 2021 2894-2903*
- Liu, C., see Su, Y., *TSMC May 2021 2833-2846*
- Liu, C., see Ping, Z., *TSMC June 2021 3751-3758*
- Liu, C., see Sun, Z., *TSMC July 2021 4409-4416*
- Liu, C., see Zhang, H., *TSMC Oct. 2021 6293-6303*
- Liu, C., see Cheng, S., *TSMC Nov. 2021 6901-6910*
- Liu, D., Xue, S., Zhao, B., Luo, B., and Wei, Q., Adaptive Dynamic Programming for Control: A Survey and Recent Advances; *TSMC Jan. 2021 142-160*
- Liu, D., see Li, Y., *TSMC March 2021 1966-1980*
- Liu, D., Xu, J., Chen, C., Long, X., Tao, D., and Wu, X., Vision-Assisted Autonomous Lower-Limb Exoskeleton Robot; *TSMC June 2021 3759-3770*
- Liu, D., Liu, H., Lewis, F.L., and Valavanis, K.P., Robust Time-Varying Formation Control for Tail-Sitters in Flight Mode Transitions; *TSMC July 2021 4102-4111*
- Liu, D., and Yang, G., A Dynamic Event-Triggered Control Approach to Leader-Following Consensus for Linear Multiagent Systems; *TSMC Oct. 2021 6271-6279*
- Liu, F., see He, S., *TSMC Feb. 2021 885-892*
- Liu, F., see Nie, R., *TSMC April 2021 2467-2475*

- Liu, F., *see* Nie, R., *TSMC Nov. 2021 6885-6891*
- Liu, F., *see* Cheng, P., *TSMC Dec. 2021 7644-7651*
- Liu, F., *see* Meng, A., *TSMC Dec. 2021 7707-7718*
- Liu, G., *see* Yuan, J., *TSMC Jan. 2021 354-369*
- Liu, G., and Hou, Z., RBFNN-Based Adaptive Iterative Learning Fault-Tolerant Control for Subway Trains With Actuator Faults and Speed Constraint; *TSMC Sept. 2021 5785-5799*
- Liu, G., *see* Hu, J., *TSMC Nov. 2021 7063-7074*
- Liu, H., Wang, Y., and Lewis, F.L., Robust Distributed Formation Controller Design for a Group of Unmanned Underwater Vehicles; *TSMC Feb. 2021 1215-1223*
- Liu, H., Xu, X., Lu, J., Chen, G., and Zeng, Z., Optimizing Pinning Control of Complex Dynamical Networks Based on Spectral Properties of Grounded Laplacian Matrices; *TSMC Feb. 2021 786-796*
- Liu, H., *see* Han, F., *TSMC March 2021 1892-1903*
- Liu, H., *see* Hu, J., *TSMC May 2021 3217-3228*
- Liu, H., *see* Han, H., *TSMC June 2021 3464-3476*
- Liu, H., *see* Yang, X., *TSMC June 2021 3370-3379*
- Liu, H., *see* Han, H., *TSMC July 2021 4492-4504*
- Liu, H., *see* Liu, D., *TSMC July 2021 4102-4111*
- Liu, H., Xu, D., Duan, C., and Xiong, Y., Pythagorean Fuzzy Petri Nets for Knowledge Representation and Reasoning in Large Group Context; *TSMC Aug. 2021 5261-5271*
- Liu, H., *see* Yang, L., *TSMC Oct. 2021 6319-6329*
- Liu, H., Cong, Y., Sun, G., and Tang, Y., Robust 3-D Object Recognition via View-Specific Constraint; *TSMC Nov. 2021 7109-7119*
- Liu, J., *see* Yang, L., *TSMC Jan. 2021 420-440*
- Liu, J., Wu, X., Lu, J., and Wei, X., Infection-Probability-Dependent Interlayer Interaction Propagation Processes in Multiplex Networks; *TSMC Feb. 2021 1085-1096*
- Liu, J., *see* Yin, Y., *TSMC Feb. 2021 674-685*
- Liu, J., Wu, Z., Yue, D., and Park, J.H., Stabilization of Networked Control Systems With Hybrid-Driven Mechanism and Probabilistic Cyber Attacks; *TSMC Feb. 2021 943-953*
- Liu, J., *see* Gao, Y., *TSMC March 2021 1981-1993*
- Liu, J., *see* Wang, J., *TSMC April 2021 2246-2257*
- Liu, J., *see* Chen, L., *TSMC May 2021 3125-3135*
- Liu, J., *see* Li, J., *TSMC June 2021 3392-3400*
- Liu, J., Zuo, L., Xu, X., Zhang, X., Ren, J., Fang, Q., and Liu, X., Efficient Batch-Mode Reinforcement Learning Using Extreme Learning Machines; *TSMC June 2021 3664-3677*
- Liu, J., *see* Niu, B., *TSMC July 2021 4566-4578*
- Liu, J., *see* Xing, X., *TSMC July 2021 4127-4138*
- Liu, J., Wu, Z., Yu, J., and Xue, Z., Cooperative Target Tracking in Aquatic Environment Using Dual Robotic Dolphins; *TSMC Aug. 2021 4782-4792*
- Liu, J., *see* Cai, Q., *TSMC Oct. 2021 6244-6257*
- Liu, J., Yin, T., Cao, J., Yue, D., and Karimi, H.R., Security Control for T-S Fuzzy Systems With Adaptive Event-Triggered Mechanism and Multiple Cyber-Attacks; *TSMC Oct. 2021 6544-6554*
- Liu, J., Huang, Z., Xu, X., Zhang, X., Sun, S., and Li, D., Multi-Kernel Online Reinforcement Learning for Path Tracking Control of Intelligent Vehicles; *TSMC Nov. 2021 6962-6975*
- Liu, J.J.R., Lam, J., Xie, X., and Shu, Z., Generalized Lead-Lag H_∞ Compensators for MIMO Linear Systems; *TSMC Oct. 2021 6207-6217*
- Liu, K., *see* Gu, H., *TSMC May 2021 2676-2686*
- Liu, K., *see* Wu, Z., *TSMC July 2021 4433-4442*
- Liu, L., *see* Li, W., *TSMC Jan. 2021 477-486*
- Liu, L., *see* Zeng, Q., *TSMC March 2021 1704-1714*
- Liu, L., *see* Ni, J., *TSMC April 2021 2550-2560*
- Liu, L., *see* Li, D., *TSMC May 2021 2821-2832*
- Liu, L., *see* Ma, L., *TSMC June 2021 3678-3686*
- Liu, L., *see* Qian, Y., *TSMC July 2021 4139-4148*
- Liu, L., *see* Gu, N., *TSMC Aug. 2021 5105-5115*
- Liu, L., *see* Li, D., *TSMC Sept. 2021 5929-5934*
- Liu, L., Sun, H., Ma, L., Zhang, J., and Bo, Y., Quasi-Consensus Control for a Class of Time-Varying Stochastic Nonlinear Time-Delay Multiagent Systems Subject to Deception Attacks; *TSMC Nov. 2021 6863-6873*
- Liu, L., Lan, R., and Wang, Y., Discriminative Face Hallucination via Locality-Constrained and Category Embedding Representation; *TSMC Dec. 2021 7314-7325*
- Liu, M., *see* Fei, Z., *TSMC March 2021 1630-1641*
- Liu, M., *see* Liu, C., *TSMC April 2021 2332-2341*
- Liu, M., *see* Liu, Q., *TSMC July 2021 4400-4408*
- Liu, M., *see* Gao, Z., *TSMC Nov. 2021 7143-7151*
- Liu, P.X., *see* Bao, J., *TSMC Jan. 2021 452-463*
- Liu, P.X., *see* Shi, W., *TSMC Feb. 2021 686-695*
- Liu, Q., *see* Leng, J., *TSMC Jan. 2021 237-252*
- Liu, Q., *see* Jin, B., *TSMC May 2021 3068-3079*
- Liu, Q., *see* Xu, S., *TSMC June 2021 3617-3628*
- Liu, Q., *see* Zhang, K., *TSMC June 2021 3781-3795*
- Liu, Q., Liu, M., and Yu, J., Adaptive Fault-Tolerant Control for Attitude Tracking of Flexible Spacecraft With Limited Data Transmission; *TSMC July 2021 4400-4408*
- Liu, Q., *see* Sun, Z., *TSMC July 2021 4308-4320*
- Liu, Q., Ma, C., Xiang, B., Chen, H., and Zhang, H., Inferring Network Structure and Estimating Dynamical Process From Binary-State Data via Logistic Regression; *TSMC Aug. 2021 4639-4649*
- Liu, R., Hao, F., and Yu, H., Optimal SINR-Based DoS Attack Scheduling for Remote State Estimation via Adaptive Dynamic Programming Approach; *TSMC Dec. 2021 7622-7632*
- Liu, R.P., *see* Wang, X., *TSMC March 2021 1601-1611*
- Liu, S., *see* Wu, Z., *TSMC March 2021 1590-1600*
- Liu, S., *see* Lu, Q., *TSMC Nov. 2021 6650-6659*
- Liu, W., *see* Shi, Y., *TSMC Feb. 2021 809-821*
- Liu, W., *see* Rahman, I.U., *TSMC Nov. 2021 6626-6638*
- Liu, W., *see* Wen, S., *TSMC Nov. 2021 7250-7259*
- Liu, X., Xie, Y., Li, F., and Gui, W., Admissible Consensus for Homogenous Descriptor Multiagent Systems; *TSMC Feb. 2021 965-974*
- Liu, X., *see* Liu, C., *TSMC May 2021 2894-2903*
- Liu, X., Ren, Z., Lyu, H., Jiang, Z., Ren, P., and Chen, B., Linear and Nonlinear Regression-Based Maximum Correntropy Extended Kalman Filtering; *TSMC May 2021 3093-3102*
- Liu, X., Zhang, J., and Xia, Y., Co-Design of Quantization and Event-Driven Control for Networked Control Systems; *TSMC May 2021 3103-3110*
- Liu, X., *see* Li, J., *TSMC June 2021 3392-3400*
- Liu, X., Wang, T., Jia, W., Liu, A., and Chi, K., Quick Convex Hull-Based Rendezvous Planning for Delay-Harsh Mobile Data Gathering in Disjoint Sensor Networks; *TSMC June 2021 3844-3854*
- Liu, X., *see* Chen, Y., *TSMC June 2021 3939-3953*
- Liu, X., *see* Liu, J., *TSMC June 2021 3664-3677*
- Liu, X., Ma, L., Kong, X., and Lee, K.Y., Robust Model Predictive Iterative Learning Control for Iteration-Varying-Reference Batch Processes; *TSMC July 2021 4238-4250*
- Liu, X., *see* Luo, J., *TSMC Aug. 2021 4993-5004*
- Liu, X., Yang, X., Zhu, P., and Wang, Y., Robust Multimodel Identification of LPV Systems With Missing Observations Based on t-Distribution; *TSMC Aug. 2021 5254-5260*
- Liu, X., *see* Liu, Y., *TSMC Oct. 2021 6159-6169*
- Liu, X., *see* Rahman, I.U., *TSMC Nov. 2021 6626-6638*
- Liu, Y., *see* Cui, Y., *TSMC Jan. 2021 561-573*
- Liu, Y., and Yang, G., Distributed Robust Adaptive Optimization for Nonlinear Multiagent Systems; *TSMC Feb. 2021 1046-1053*
- Liu, Y., *see* Zeng, Q., *TSMC March 2021 1704-1714*
- Liu, Y., *see* Wang, L., *TSMC March 2021 1559-1566*
- Liu, Y., *see* Qi, Y., *TSMC May 2021 2847-2859*
- Liu, Y., *see* Gong, Y., *TSMC May 2021 2712-2725*
- Liu, Y., Zhang, F., Huang, P., and Lu, Y., Fixed-Time Consensus Tracking for Second-Order Multiagent Systems Under Disturbance; *TSMC Aug. 2021 4883-4894*
- Liu, Y., Cao, S., Lasang, P., and Shen, S., Modular Lightweight Network for Road Object Detection Using a Feature Fusion Approach; *TSMC Aug. 2021 4716-4728*

- Liu, Y., He, Y., Li, S., Dong, Z., Zhang, J., and Kruger, U., An Auto-Adjustable and Time-Consistent Model for Determining Coagulant Dosage Based on Operators' Experience; *TSMC Sept. 2021 5614-5625*
- Liu, Y., Su, C., and Zhou, Q., Funnel Control of Uncertain High-Order Nonlinear Systems With Unknown Rational Powers; *TSMC Sept. 2021 5732-5741*
- Liu, Y., Liu, X., Jing, Y., Wang, H., and Li, X., Annular Domain Finite-Time Connective Control for Large-Scale Systems With Expanding Construction; *TSMC Oct. 2021 6159-6169*
- Liu, Y., see Sun, H., *TSMC Oct. 2021 6218-6228*
- Liu, Y., and Chen, H., Adaptive Sliding Mode Control for Uncertain Active Suspension Systems With Prescribed Performance; *TSMC Oct. 2021 6414-6422*
- Liu, Y., see He, J., *TSMC Nov. 2021 6842-6851*
- Liu, Y., Liu, Z., Shi, J., Wu, G., and Pedrycz, W., Two-Echelon Routing Problem for Parcel Delivery by Cooperated Truck and Drone; *TSMC Dec. 2021 7450-7465*
- Liu, Z., Zhang, Y., Yuan, C., and Luo, J., Adaptive Path Following Control of Unmanned Surface Vehicles Considering Environmental Disturbances and System Constraints; *TSMC Jan. 2021 339-353*
- Liu, Z., see Luo, X., *TSMC Jan. 2021 610-620*
- Liu, Z., Chen, C.L.P., Feng, S., Feng, Q., and Zhang, T., Stacked Broad Learning System: From Incremental Flatted Structure to Deep Model; *TSMC Jan. 2021 209-222*
- Liu, Z., see Wu, M., *TSMC March 2021 1473-1484*
- Liu, Z., Shi, P., Chen, B., and Lin, C., Control Design for Uncertain Switched Nonlinear Systems: Adaptive Neural Approach; *TSMC April 2021 2322-2331*
- Liu, Z., Xiao, F., Lin, C., Kang, B.H., and Cao, Z., A Generalized Golden Rule Representative Value for Multiple-Criteria Decision Analysis; *TSMC May 2021 3193-3204*
- Liu, Z., see Han, H., *TSMC July 2021 4492-4504*
- Liu, Z., Lu, B., Wei, H., Chen, L., Li, X., and Ratsch, M., Deep Adversarial Domain Adaptation Model for Bearing Fault Diagnosis; *TSMC July 2021 4217-4226*
- Liu, Z., see Xin, L., *TSMC Aug. 2021 4612-4623*
- Liu, Z., Qiu, G., Mercier, G., and Pan, Q., A Transfer Classification Method for Heterogeneous Data Based on Evidence Theory; *TSMC Aug. 2021 5129-5141*
- Liu, Z., Wang, Y., and Wang, B., Indicator-Based Constrained Multiobjective Evolutionary Algorithms; *TSMC Sept. 2021 5414-5426*
- Liu, Z., see Sun, W., *TSMC Sept. 2021 5577-5586*
- Liu, Z., see Liu, Y., *TSMC Dec. 2021 7450-7465*
- Liu, B., see Zhao, L., *TSMC Feb. 2021 1164-1173*
- Long, F., Zhang, C., Jiang, L., He, Y., and Wu, M., Stability Analysis of Systems With Time-Varying Delay via Improved Lyapunov-Krasovskii Functionals; *TSMC April 2021 2457-2466*
- Long, X., see Liu, D., *TSMC June 2021 3759-3770*
- Long, Y., Park, J.H., and Ye, D., Asynchronous Fault Detection and Isolation for Markov Jump Systems With Actuator Failures Under Networked Environment; *TSMC June 2021 3477-3487*
- Lu, B., see Liu, Z., *TSMC July 2021 4217-4226*
- Lu, C., Zhang, X., Wu, M., Han, Q., and He, Y., Receding Horizon Synchronization of Delayed Neural Networks Using a Novel Inequality on Quadratic Polynomial Functions; *TSMC Oct. 2021 6085-6095*
- Lu, G., see Liang, X., *TSMC March 2021 1534-1548*
- Lu, G., see Xu, Y., *TSMC Sept. 2021 5721-5731*
- Lu, H., Jin, L., Zhang, J., Sun, Z., Li, S., and Zhang, Z., New Joint-Drift-Free Scheme Aided with Projected ZNN for Motion Generation of Redundant Robot Manipulators Perturbed by Disturbances; *TSMC Sept. 2021 5639-5651*
- Lu, J., see Liu, J., *TSMC Feb. 2021 1085-1096*
- Lu, J., see Liu, H., *TSMC Feb. 2021 786-796*
- Lu, J., see Wang, L., *TSMC Feb. 2021 853-863*
- Lu, J., see Wang, L., *TSMC March 2021 1559-1566*
- Lu, J., see Gu, H., *TSMC May 2021 2676-2686*
- Lu, J., Wang, Y., Shi, X., and Cao, J., Finite-Time Bipartite Consensus For Multi-agent Systems Under Detail-Balanced Antagonistic Interactions; *TSMC June 2021 3867-3875*
- Lu, J., see Ping, Z., *TSMC June 2021 3751-3758*
- Lu, J., see Wen, G., *TSMC Oct. 2021 6342-6357*
- Lu, J., see He, J., *TSMC Nov. 2021 6842-6851*
- Lu, J., see Wang, G., *TSMC Dec. 2021 7919-7930*
- Lu, Q., see Li, H., *TSMC Aug. 2021 5153-5164*
- Lu, Q., Liao, X., Li, H., and Huang, T., A Nesterov-Like Gradient Tracking Algorithm for Distributed Optimization Over Directed Networks; *TSMC Oct. 2021 6258-6270*
- Lu, Q., Li, Z., Song, H., and Su, C., Visual Regulation of Differential-Drive Mobile Robots: A Nonadaptive Switching Approach; *TSMC Nov. 2021 6874-6884*
- Lu, Q., Zhang, D., Ye, W., Fan, J., Liu, S., and Su, C., Targeting Posture Control With Dynamic Obstacle Avoidance of Constrained Uncertain Wheeled Mobile Robots Including Unknown Skidding and Slipping; *TSMC Nov. 2021 6650-6659*
- Lu, R., see Cao, L., *TSMC June 2021 3855-3866*
- Lu, R., see Xu, Y., *TSMC July 2021 4379-4388*
- Lu, R., see Zhou, Q., *TSMC Oct. 2021 6369-6380*
- Lu, R., see Xu, Y., *TSMC Dec. 2021 7727-7734*
- Lu, R., see Lin, W., *TSMC Dec. 2021 7870-7881*
- Lu, S., see Jin, X., *TSMC April 2021 2272-2283*
- Lu, S., see Li, D., *TSMC May 2021 2821-2832*
- Lu, X., and Jia, Y., Trajectory Planning of Free-Floating Space Manipulators With Spacecraft Attitude Stabilization and Manipulability Optimization; *TSMC Dec. 2021 7346-7362*
- Lu, X.S., Zhou, M., and Wu, K., A Novel Fuzzy Logic-Based Text Classification Method for Tracking Rare Events on Twitter; *TSMC July 2021 4324-4333*
- Lu, Y., see Liu, Y., *TSMC Aug. 2021 4883-4894*
- Lu, Y., see Xu, Y., *TSMC Sept. 2021 5721-5731*
- Lu, Z., Ge, Q., Li, Y., and Hu, J., Finite-Time Synchronization of Memristor-Based Recurrent Neural Networks With Inertial Items and Mixed Delays; *TSMC May 2021 2701-2711*
- Luan, X., see Nie, R., *TSMC April 2021 2467-2475*
- Luan, X., see Nie, R., *TSMC Nov. 2021 6885-6891*
- Luan, X., see Cheng, P., *TSMC Dec. 2021 7644-7651*
- Luo, B., see Liu, D., *TSMC Jan. 2021 142-160*
- Luo, B., see Li, Y., *TSMC March 2021 1966-1980*
- Luo, F., see Lai, Z., *TSMC Feb. 2021 797-808*
- Luo, J., see Liu, Z., *TSMC Jan. 2021 339-353*
- Luo, J., see Li, W., *TSMC July 2021 4028-4039*
- Luo, J., Liu, X., Tian, W., Zhong, S., and Shi, K., Nonfragile Sampled-Data Filtering of Uncertain Fuzzy Systems With Time-Varying Delays; *TSMC Aug. 2021 4993-5004*
- Luo, N., see Liang, X., *TSMC March 2021 1534-1548*
- Luo, W., see Yin, Y., *TSMC Feb. 2021 674-685*
- Luo, W., see Wang, J., *TSMC April 2021 2246-2257*
- Luo, W., see Xia, Y., *TSMC Dec. 2021 7735-7744*
- Luo, X., Liu, Z., Li, S., Shang, M., and Wang, Z., A Fast Non-Negative Latent Factor Model Based on Generalized Momentum Method; *TSMC Jan. 2021 610-620*
- Luo, X., Wang, D., Zhou, M., and Yuan, H., Latent Factor-Based Recommenders Relying on Extended Stochastic Gradient Descent Algorithms; *TSMC Feb. 2021 916-926*
- Luo, X., Wang, Z., and Shang, M., An Instance-Frequency-Weighted Regularization Scheme for Non-Negative Latent Factor Analysis on High-Dimensional and Sparse Data; *TSMC June 2021 3522-3532*
- Luo, X., see Wu, D., *TSMC July 2021 4285-4296*
- Luo, Y., see Gao, W., *TSMC Sept. 2021 5652-5663*
- Lv, E., see Wang, X., *TSMC Sept. 2021 5918-5928*
- Lv, G., see Zhang, K., *TSMC June 2021 3781-3795*
- Lv, M., Yu, W., and Baldi, S., The Set-Invariance Paradigm in Fuzzy Adaptive DSC Design of Large-Scale Nonlinear Input-Constrained Systems; *TSMC Feb. 2021 1035-1045*

Lv, M., De Schutter, B., Yu, W., and Baldi, S., Adaptive Asymptotic Tracking for a Class of Uncertain Switched Positive Compartmental Models With Application to Anesthesia; *TSMC Aug. 2021 4936-4942*
Lv, P., see Xu, M., *TSMC March 2021 1567-1581*
Lv, X., see Cao, J., *TSMC June 2021 3808-3819*
Lv, Y., see Zhou, W., *TSMC June 2021 3641-3649*
Lyu, H., see Liu, X., *TSMC May 2021 3093-3102*
Lyu, W., see He, S., *TSMC Feb. 2021 885-892*

M

Ma, C., see Liu, Q., *TSMC Aug. 2021 4639-4649*
Ma, D., Hu, X., Zhang, H., Sun, Q., and Xie, X., A Hierarchical Event Detection Method Based on Spectral Theory of Multidimensional Matrix for Power System; *TSMC April 2021 2173-2186*
Ma, F., see Tian, G., *TSMC March 2021 1855-1868*
Ma, H., Tang, W., Zhu, H., and Zhang, H., Resource Utilization-Aware Collaborative Optimization of IaaS Cloud Service Composition for Data-Intensive Applications; *TSMC Feb. 2021 1322-1333*
Ma, J., see Yu, X., *TSMC June 2021 3440-3449*
Ma, J., see Tan, P., *TSMC July 2021 4466-4478*
Ma, J., Park, J.H., and Xu, S., Global Adaptive Control for Uncertain Nonlinear Systems With Sensor and Actuator Faults; *TSMC Sept. 2021 5503-5510*
Ma, K., see Gao, Z., *TSMC Nov. 2021 7143-7151*
Ma, L., and Liu, L., Adaptive Neural Network Control Design for Uncertain Nonstrict Feedback Nonlinear System With State Constraints; *TSMC June 2021 3678-3686*
Ma, L., see Liu, X., *TSMC July 2021 4238-4250*
Ma, L., see Liu, L., *TSMC Nov. 2021 6863-6873*
Ma, L., Wang, Z., Cai, C., and Alsaadi, F.E., A Dynamic Event-Triggered Approach to H_∞ Control for Discrete-Time Singularly Perturbed Systems With Time-Delays and Sensor Saturations; *TSMC Nov. 2021 6614-6625*
Ma, L., Cheng, S., and Shi, Y., Enhancing Learning Efficiency of Brain Storm Optimization via Orthogonal Learning Design; *TSMC Nov. 2021 6723-6742*
Ma, L., see Fang, L., *TSMC Nov. 2021 7201-7213*
Ma, L., Xu, N., Zhao, X., Zong, G., and Huo, X., Small-Gain Technique-Based Adaptive Neural Output-Feedback Fault-Tolerant Control of Switched Nonlinear Systems With Unmodeled Dynamics ; *TSMC Nov. 2021 7051-7062*
Ma, R., Chen, Q., Zhao, S., and Fu, J., Dwell-Time-Based Exponential Stabilization of Switched Positive Systems With Actuator Saturation; *TSMC Dec. 2021 7685-7691*
Ma, X., see Li, W., *TSMC July 2021 4028-4039*
Ma, Y., see Wu, Y., *TSMC May 2021 2810-2820*
Ma, Z., Wang, Y., and Song, W., A New Fitness Function With Two Rankings for Evolutionary Constrained Multiobjective Optimization; *TSMC Aug. 2021 5005-5016*
Man, J., see Song, X., *TSMC June 2021 3650-3661*
Mancer, S., and Bennoui, H., Distributed Diagnostic Problem Solving With Colored Behavioral Petri Nets; *TSMC June 2021 3380-3391*
Mani, P., Rajan, R., and Joo, Y.H., Design of Observer-Based Event-Triggered Fuzzy ISMC for T-S Fuzzy Model and its Application to PMSG; *TSMC April 2021 2221-2231*
Manivannan, R., see Cao, J., *TSMC June 2021 3808-3819*
Mansoori, A., and Effati, S., Parametric NCP-Based Recurrent Neural Network Model: A New Strategy to Solve Fuzzy Nonconvex Optimization Problems; *TSMC April 2021 2592-2601*
Mao, J., Ding, D., Dong, H., and Ge, X., Event-Based Distributed Adaptive Kalman Filtering With Unknown Covariance of Process Noises; *TSMC Oct. 2021 6170-6182*
Mao, S., Dong, Z., Schultz, P., Tang, Y., Meng, K., Dong, Z.Y., and Qian, F., A Finite-Time Distributed Optimization Algorithm for Economic Dispatch in Smart Grids ; *TSMC April 2021 2068-2079*
Martinez, L., see Yang, L., *TSMC Jan. 2021 420-440*
Marwan, N., see Yang, Y., *TSMC Sept. 2021 5800-5808*
Mastroianni, C., see Giordano, A., *TSMC March 2021 1679-1689*
McArthur, S.D.J., see Aizpurua, J.I., *TSMC Jan. 2021 621-633*
McIsaac, K., see Hashim, H.A., *TSMC May 2021 2949-2962*

Medjaher, K., see Tamssaouet, F., *TSMC Aug. 2021 4659-4669*
Mehran, K., see Li, X., *TSMC Dec. 2021 7517-7529*
Mei, K., and Ding, S., Second-Order Sliding Mode Controller Design Subject to an Upper-Triangular Structure ; *TSMC Jan. 2021 497-507*
Meng, A., Lam, H., Liu, F., Zhang, C., and Qi, P., Output Feedback and Stability Analysis of Positive Polynomial Fuzzy Systems; *TSMC Dec. 2021 7707-7718*
Meng, D., and Zhang, J., Robust Tracking of Nonrepetitive Learning Control Systems With Iteration-Dependent References; *TSMC Feb. 2021 842-852*
Meng, D., see Huang, D., *TSMC July 2021 4067-4077*
Meng, D., Liang, J., Wu, Y., and Meng, Z., Connection of Signed and Unsigned Networks Based on Solving Linear Dynamic Systems; *TSMC Aug. 2021 5174-5188*
Meng, K., see Mao, S., *TSMC April 2021 2068-2079*
Meng, K., see Jia, Y., *TSMC April 2021 2123-2133*
Meng, M.Q., see Wang, C., *TSMC Aug. 2021 5230-5243*
Meng, Q., see Yan, Z., *TSMC March 2021 1671-1678*
Meng, Z., see Guo, F., *TSMC April 2021 2041-2053*
Meng, Z., see Meng, D., *TSMC Aug. 2021 5174-5188*
Meng, Z., see Huang, B., *TSMC Nov. 2021 7260-7268*
Menniti, D., see Giordano, A., *TSMC March 2021 1679-1689*
Mercier, G., see Liu, Z., *TSMC Aug. 2021 5129-5141*
Mgaya, G.B., see Yang, L., *TSMC Oct. 2021 6319-6329*
Mi, Y., see Shi, Y., *TSMC Feb. 2021 809-821*
Michiels, W., see Wei, Y., *TSMC Dec. 2021 7295-7304*
Min, G., see Lin, Y., *TSMC June 2021 3725-3738*
Mo, L., Yu, Y., Zhao, L., and Cao, X., Distributed Continuous-Time Optimization of Second-Order Multiagent Systems With Nonconvex Input Constraints; *TSMC Oct. 2021 6404-6413*
Modares, H., see Yang, Y., *TSMC Oct. 2021 6423-6434*
Mohammadi, A., see Amini, A., *TSMC Nov. 2021 7027-7039*
Mohammadi, M., Mousavi, S.H., and Effati, S., Generalized Variant Support Vector Machine; *TSMC May 2021 2798-2809*
Morawski, M., see Ignaciuk, P., *TSMC Oct. 2021 6029-6039*
Mousavi, S.H., see Mohammadi, M., *TSMC May 2021 2798-2809*
Mu, C., Wang, K., and Sun, C., Policy-Iteration-Based Learning for Nonlinear Player Game Systems With Constrained Inputs; *TSMC Oct. 2021 6488-6502*

N

Na, J., Xing, Y., and Costa-Castello, R., Adaptive Estimation of Time-Varying Parameters With Application to Roto-Magnet Plant; *TSMC Feb. 2021 731-741*
Na, J., see Yang, C., *TSMC May 2021 3282-3292*
Na, J., Yang, J., Wang, S., Gao, G., and Yang, C., Unknown Dynamics Estimator-Based Output-Feedback Control for Nonlinear Pure-Feedback Systems; *TSMC June 2021 3832-3843*
Na, J., see Hu, C., *TSMC Sept. 2021 5336-5348*
Nahavandi, S., see Dutta, S., *TSMC Jan. 2021 659-672*
Nahavandi, S., see Qazani, M.R.C., *TSMC Oct. 2021 6096-6110*
Najafi, S., see Batmani, Y., *TSMC Feb. 2021 1224-1232*
Navaratne, R., see Hu, J., *TSMC Nov. 2021 7063-7074*
Newman, S.T., see Zhong, R.Y., *TSMC Sept. 2021 5567-5576*
Nguang, S.K., see Dong, L., *TSMC Oct. 2021 6147-6158*
Nguang, S.K., see Li, H., *TSMC Nov. 2021 7087-7098*
Nguang, S.K., see Shen, M., *TSMC Dec. 2021 7633-7643*
Nguyen, K.T., see Hoang, M.C., *TSMC May 2021 3040-3052*
Nguyen, K.T.P., see Tamssaouet, F., *TSMC Aug. 2021 4659-4669*
Nguyen, T., see Fang, X., *TSMC Nov. 2021 6830-6841*
Nguyen, V., Lin, C., Su, S., Sun, W., and Er, M.J., Global Finite Time Active Disturbance Rejection Control for Parallel Manipulators With Unknown Bounded Uncertainties; *TSMC Dec. 2021 7838-7849*
Ni, J., Tang, Y., and Shi, P., A New Fixed-Time Consensus Tracking Approach for Second-Order Multiagent Systems Under Directed Communication Topology; *TSMC April 2021 2488-2500*
Ni, J., Liu, L., Tang, Y., and Liu, C., Predefined-Time Consensus Tracking of Second-Order Multiagent Systems; *TSMC April 2021 2550-2560*

- Ni, J.**, and Shi, P., Global Predefined Time and Accuracy Adaptive Neural Network Control for Uncertain Strict-Feedback Systems With Output Constraint and Dead Zone; *TSMC Dec. 2021* 7903-7918
- Ni, W.**, see Wang, X., *TSMC March 2021* 1601-1611
- Nie, R.**, He, S., Liu, F., and Luan, X., Sliding Mode Controller Design for Conic-Type Nonlinear Semi-Markovian Jumping Systems of Time-Delayed Chua's Circuit; *TSMC April 2021* 2467-2475
- Nie, R.**, He, S., Liu, F., Luan, X., and Shen, H., HMM-Based Asynchronous Controller Design of Markovian Jumping Lur'e Systems Within a Finite-Time Interval; *TSMC Nov. 2021* 6885-6891
- Nienkotter, A.**, and Jiang, X., Distance-Preserving Vector Space Embedding for Consensus Learning; *TSMC Feb. 2021* 1244-1257
- Nikolaidou, M.**, see Kapos, G., *TSMC June 2021* 3330-3345
- Ning, Y.**, Yue, M., Ding, L., and Gao, H., Time-Optimal Point Stabilization Control for WIP Vehicles Using Quasi-Convex Optimization and B-Spline Adaptive Interpolation Techniques; *TSMC May 2021* 3293-3303
- Ning, Y.**, see Tan, P., *TSMC July 2021* 4466-4478
- Niu, B.**, Duan, P., Li, J., and Li, X., Adaptive Neural Tracking Control Scheme of Switched Stochastic Nonlinear Pure-Feedback Nonlower Triangular Systems; *TSMC Feb. 2021* 975-986
- Niu, B.**, see Qi, Y., *TSMC May 2021* 2847-2859
- Niu, B.**, Liu, J., Duan, P., Li, J., and Yang, D., Reduced-Order Observer-Based Adaptive Fuzzy Tracking Control Scheme of Stochastic Switched Nonlinear Systems; *TSMC July 2021* 4566-4578
- Niu, J.**, see Xu, M., *TSMC March 2021* 1567-1581
- Niu, X.**, see Wang, X., *TSMC March 2021* 1601-1611
- Niu, Y.**, see Cao, Z., *TSMC March 2021* 1523-1533
- Niu, Y.**, see Su, Y., *TSMC May 2021* 2833-2846
- Niu, Y.**, see Cao, Z., *TSMC Dec. 2021* 7752-7763
- Niu, Y.**, see Zhang, Z., *TSMC Dec. 2021* 7602-7612

O

- Obeidi, A.**, see Garcia, A., *TSMC March 2021* 1716-1724
- Ong, Y.**, see Hou, Y., *TSMC Oct. 2021* 5962-5976
- Ouyang, D.**, see Li, H., *TSMC Nov. 2021* 7087-7098

P

- Palhares, R.M.**, see Araujo, R.F., *TSMC Aug. 2021* 4858-4867
- Palomares, I.**, see Herrera-Viedma, E., *TSMC Jan. 2021* 191-208
- Pan, Q.**, see Liu, Z., *TSMC Aug. 2021* 5129-5141
- Pan, X.**, see Wu, Z., *TSMC July 2021* 4433-4442
- Pan, Y.**, see Xu, Y., *TSMC March 2021* 1642-1651
- Pan, Y.**, see He, G., *TSMC July 2021* 4201-4216
- Pan, Y.**, see Sun, T., *TSMC July 2021* 4193-4200
- Pan, Y.**, and Yang, G., Event-Driven Fault Detection for Discrete-Time Interval Type-2 Fuzzy Systems; *TSMC Aug. 2021* 4959-4968
- Pan, Y.**, see Shen, H., *TSMC Dec. 2021* 7497-7509
- Pang, L.**, Cao, Z., Yu, J., Guan, P., Rong, X., and Chai, H., A Visual Leader-Following Approach With a T-D-R Framework for Quadruped Robots; *TSMC April 2021* 2342-2354
- Pang, X.**, Xu, Y., and Xiao, X., A Doubly Sparse Multiclass Support Vector Machine With Simultaneous Feature and Sample Screening; *TSMC Nov. 2021* 6911-6925
- Park, J.**, see Hoang, M.C., *TSMC May 2021* 3040-3052
- Park, J.H.**, see Ge, C., *TSMC Jan. 2021* 391-399
- Park, J.H.**, see Liu, J., *TSMC Feb. 2021* 943-953
- Park, J.H.**, see Qi, W., *TSMC Feb. 2021* 775-785
- Park, J.H.**, see Wang, X., *TSMC April 2021* 2561-2570
- Park, J.H.**, see Long, Y., *TSMC June 2021* 3477-3487
- Park, J.H.**, see Li, Z., *TSMC June 2021* 3820-3831
- Park, J.H.**, see Tang, Z., *TSMC July 2021* 4555-4565
- Park, J.H.**, see Zhang, H., *TSMC Aug. 2021* 4741-4750
- Park, J.H.**, see Tang, Z., *TSMC Aug. 2021* 4969-4979
- Park, J.H.**, see Shen, H., *TSMC Sept. 2021* 5535-5546
- Park, J.H.**, see Ma, J., *TSMC Sept. 2021* 5503-5510

- Park, J.H.**, see Gu, Z., *TSMC Oct. 2021* 6197-6206
- Park, J.H.**, see Song, S., *TSMC Nov. 2021* 7238-7249
- Park, J.H.**, see Fang, L., *TSMC Nov. 2021* 7201-7213
- Park, M.J.**, see Kaviarasan, B., *TSMC Oct. 2021* 6330-6341
- Parsa, M.**, and Danesh, M., Robust Containment Control of Uncertain Multi-Agent Systems With Time-Delay and Heterogeneous Lipschitz Nonlinearity; *TSMC April 2021* 2312-2321
- Pedrycz, W.**, see Tunstel, E., *TSMC Jan. 2021* 5-21
- Pedrycz, W.**, see Chen, H., *TSMC March 2021* 1507-1522
- Pedrycz, W.**, see Tian, G., *TSMC March 2021* 1855-1868
- Pedrycz, W.**, see Chen, H., *TSMC June 2021* 3552-3564
- Pedrycz, W.**, see Liu, Y., *TSMC Dec. 2021* 7450-7465
- Pei, S.**, see Chen, Y., *TSMC June 2021* 3939-3953
- Pei, Z.**, see Sun, X., *TSMC Oct. 2021* 6111-6121
- Peichang, S.**, see Xiang, F., *TSMC April 2021* 2415-2424
- Peng, C.**, see Sun, H., *TSMC April 2021* 2113-2122
- Peng, C.**, and Zhang, W., Multiobjective Dynamic Optimization of Cooperative Difference Games in Infinite Horizon; *TSMC Nov. 2021* 6669-6680
- Peng, G.**, see Yang, C., *TSMC May 2021* 3282-3292
- Peng, H.**, see Huang, D., *TSMC Jan. 2021* 508-520
- Peng, K.**, see Zhang, S., *TSMC July 2021* 4091-4101
- Peng, L.**, see Sun, T., *TSMC July 2021* 4193-4200
- Peng, Q.**, see Issa, S., *TSMC Dec. 2021* 7382-7391
- Peng, R.**, see He, G., *TSMC July 2021* 4201-4216
- Peng, R.**, see Gao, K., *TSMC Aug. 2021* 5116-5128
- Peng, X.**, Guo, K., Li, X., and Geng, Z., Cooperative Moving-Target Enclosing Control for Multiple Nonholonomic Vehicles Using Feedback Linearization Approach; *TSMC Aug. 2021* 4929-4935
- Peng, Y.**, see Wang, Y., *TSMC Nov. 2021* 6691-6700
- Peng, Z.**, see Zhang, Y., *TSMC Feb. 2021* 1354-1364
- Peng, Z.**, see Wang, F., *TSMC Feb. 2021* 1313-1321
- Peng, Z.**, see Gu, N., *TSMC Aug. 2021* 5105-5115
- Pernes, D.**, see Ferreira, P.M., *TSMC Sept. 2021* 5830-5845
- Petrovic, I.**, see Klancar, G., *TSMC Aug. 2021* 4868-4882
- Ping, Z.**, Liu, C., Huang, Y., Yu, M., and Lu, J., Experimental Output Regulation of Linear Motor Driven Inverted Pendulum With Friction Compensation; *TSMC June 2021* 3751-3758
- Pinnarelli, A.**, see Giordano, A., *TSMC March 2021* 1679-1689
- Prasad, M.**, see Gupta, A., *TSMC May 2021* 3080-3092
- Pratama, M.**, see Al-Mahasneh, A.J., *TSMC April 2021* 2525-2535
- Pratama, M.**, see Cai, Q., *TSMC Oct. 2021* 6244-6257
- Prezzavento, A.**, see Gregory, J., *TSMC Nov. 2021* 6946-6961
- Principe, J.C.**, see Chen, B., *TSMC June 2021* 4007-4012
- Principe, J.C.**, see Chen, B., *TSMC Sept. 2021* 5819-5829
- Psillakis, H.E.**, see Wang, Q., *TSMC April 2021* 2582-2591
- Psillakis, H.E.**, Adaptive NN Cooperative Control of Unknown Nonlinear Multi-agent Systems With Communication Delays; *TSMC Sept. 2021* 5311-5321
- Pu, Z.**, Sun, J., Yi, J., and Gao, Z., On the Principle and Applications of Conditional Disturbance Negation; *TSMC Nov. 2021* 6757-6767
- Putnik, G.D.**, see Zhong, R.Y., *TSMC Sept. 2021* 5567-5576

Q

- Qazani, M.R.C.**, Asadi, H., Khoo, S., and Nahavandi, S., A Linear Time-Varying Model Predictive Control-Based Motion Cueing Algorithm for Hexapod Simulation-Based Motion Platform; *TSMC Oct. 2021* 6096-6110
- Qi, D.**, see Chen, Y., *TSMC July 2021* 4359-4364
- Qi, P.**, see Meng, A., *TSMC Dec. 2021* 7707-7718
- Qi, S.**, see Du, S., *TSMC Aug. 2021* 4670-4680
- Qi, W.**, Park, J.H., Zong, G., Cao, J., and Cheng, J., A Fuzzy Lyapunov Function Approach to Positive L_1 Observer Design for Positive Fuzzy Semi-Markovian Switching Systems With Its Application; *TSMC Feb. 2021* 775-785
- Qi, W.**, Yang, X., Ahn, C.K., Cao, J., and Cheng, J., Input-Output Finite-Time Sliding-Mode Control for T-S Fuzzy Systems With Application; *TSMC Sept. 2021* 5446-5455
- Qi, W.**, see Zong, G., *TSMC Dec. 2021* 7569-7578

- Qi, Y.**, Liu, Y., and Niu, B., Event-Triggered H_∞ Filtering for Networked Switched Systems With Packet Disorders; *TSMC May 2021* 2847-2859
- Qian, F.**, see Mao, S., *TSMC April 2021* 2068-2079
- Qian, F.**, see Xie, G., *TSMC May 2021* 2980-2989
- Qian, Y.**, Liu, L., and Feng, G., Event-Triggered Robust Output Regulation of Uncertain Linear Systems With Unknown Exosystems; *TSMC July 2021* 4139-4148
- Qiao, F.**, see Zhang, L., *TSMC May 2021* 3205-3216
- Qiao, H.**, see Chen, J., *TSMC June 2021* 3993-4006
- Qiao, H.**, see Huang, X., *TSMC Aug. 2021* 4624-4638
- Qiao, J.**, see Du, S., *TSMC Jan. 2021* 487-496
- Qiao, J.**, see Xu, J., *TSMC May 2021* 2885-2893
- Qiao, J.**, see Han, H., *TSMC June 2021* 3464-3476
- Qiao, J.**, see Han, H., *TSMC July 2021* 4492-4504
- Qiao, J.**, Wu, H., and Yu, X., High-Precision Attitude Tracking Control of Space Manipulator System Under Multiple Disturbances; *TSMC July 2021* 4274-4284
- Qiao, J.**, see Wang, J., *TSMC Aug. 2021* 4848-4857
- Qiao, S.**, Han, N., Gao, Y., Li, R., Huang, J., Sun, H., and Wu, X., Dynamic Community Evolution Analysis Framework for Large-Scale Complex Networks Based on Strong and Weak Events; *TSMC Oct. 2021* 6229-6243
- Qiao, Y.**, Zhang, S., Wu, N., Zhou, M., Li, Z., and Qu, T., Efficient Approach to Failure Response of Process Module in Dual-Arm Cluster Tools With Wafer Residency Time Constraints; *TSMC March 2021* 1612-1629
- Qiao, Y.**, Zhou, M., Wu, N., Li, Z., and Zhu, Q., Closing-Down Optimization for Single-Arm Cluster Tools Subject to Wafer Residency Time Constraints; *TSMC Nov. 2021* 6792-6807
- Qin, J.**, see Jin, X., *TSMC April 2021* 2272-2283
- Qin, S.**, see Jiang, X., *TSMC Sept. 2021* 5809-5818
- Qin, Y.**, see Hu, C., *TSMC Sept. 2021* 5336-5348
- Qing, C.**, see Zhang, T., *TSMC Feb. 2021* 1004-1014
- Qiu, C.**, see Kong, S., *TSMC Oct. 2021* 6358-6368
- Qiu, G.**, see Liu, Z., *TSMC Aug. 2021* 5129-5141
- Qiu, J.**, see Yang, C., *TSMC Jan. 2021* 370-377
- Qiu, J.**, see Ji, W., *TSMC March 2021* 1652-1661
- Qiu, J.**, see Sun, K., *TSMC June 2021* 3968-3979
- Qiu, J.**, see Li, Z., *TSMC Nov. 2021* 6986-6993
- Qiu, J.**, see Gao, H., *TSMC Dec. 2021* 7305-7313
- Qiu, Y.**, see Hua, C., *TSMC Dec. 2021* 7719-7726
- Qu, M.**, Ding, T., Jia, W., Zhu, S., Yang, Y., and Blaabjerg, F., Distributed Optimal Control of Energy Hubs for Micro-Integrated Energy Systems; *TSMC April 2021* 2145-2158
- Qu, T.**, see Aissa, Y.B., *TSMC March 2021* 1446-1461
- Qu, T.**, see Qiao, Y., *TSMC March 2021* 1612-1629
- Qu, T.**, see Chen, H., *TSMC July 2021* 4347-4358
- Qu, Y.**, Cai, L., and Xu, H., Curved Path Following for Unmanned Surface Vehicles With Heading Amendment; *TSMC July 2021* 4183-4192

R

- Rahman, I.U.**, Wang, Z., Liu, W., Ye, B., Zakarya, M., and Liu, X., An N -State Markovian Jumping Particle Swarm Optimization Algorithm; *TSMC Nov. 2021* 6626-6638
- Rajan, R.**, see Mani, P., *TSMC April 2021* 2221-2231
- Rakkhiyappan, R.**, see Sharmila, V., *TSMC April 2021* 2199-2211
- Ramasamy, S.**, see Gnanaswaran, N., *TSMC June 2021* 3346-3357
- Ran, D.**, see Xiao, B., *TSMC May 2021* 2751-2759
- Rao, H.**, see Xu, Y., *TSMC July 2021* 4379-4388
- Rao, H.**, see Xu, Y., *TSMC Dec. 2021* 7727-7734
- Rastogi, R.**, see Sharma, S., *TSMC Feb. 2021* 987-1003
- Ratsch, M.**, see Liu, Z., *TSMC July 2021* 4217-4226
- Rayguru, M.M.**, Roy, S., and Kar, I.N., Time-Scale Redesign-Based Saturated Controller Synthesis for a Class of MIMO Nonlinear Systems; *TSMC Aug. 2021* 4681-4692
- Razaq, M.A.**, Rehan, M., Ahn, C.K., Khan, A.Q., and Tufail, M., Consensus of One-Sided Lipschitz Multiagents Under Switching Topologies; *TSMC March 2021* 1485-1495

- Rebello, A.**, see Ferreira, P.M., *TSMC Sept. 2021* 5830-5845
- Rehan, M.**, see Razaq, M.A., *TSMC March 2021* 1485-1495
- Rehan, M.**, see Rehman, A.u., *TSMC Nov. 2021* 7040-7050
- Rehman, A.u.**, Rehan, M., Iqbal, N., and Ahn, C.K., LPV Scheme for Robust Adaptive Output Feedback Consensus of Lipschitz Multiagents Using Lipschitz Nonlinear Protocol; *TSMC Nov. 2021* 7040-7050
- Ren, H.**, Zong, G., and Karimi, H.R., Asynchronous Finite-Time Filtering of Markov Jump Nonlinear Systems and Its Applications; *TSMC March 2021* 1725-1734
- Ren, J.**, see Liu, J., *TSMC June 2021* 3664-3677
- Ren, P.**, see Liu, X., *TSMC May 2021* 3093-3102
- Ren, W.**, see Huang, Y., *TSMC Jan. 2021* 400-411
- Ren, W.**, see Zhu, Y., *TSMC Feb. 2021* 1097-1106
- Ren, Z.**, see Wu, Z., *TSMC March 2021* 1590-1600
- Ren, Z.**, see Liu, X., *TSMC May 2021* 3093-3102
- Rezaee, H.**, and Abdollahi, F., Adaptive Leaderless Consensus Control of Strict-Feedback Nonlinear Multiagent Systems With Unknown Control Directions; *TSMC Oct. 2021* 6435-6444
- Rong, X.**, see Pang, L., *TSMC April 2021* 2342-2354
- Roy, S.**, see Rayguru, M.M., *TSMC Aug. 2021* 4681-4692
- Rudas, I.J.**, see Karoly, A.I., *TSMC Jan. 2021* 266-279
- Rudas, I.J.**, see Tunstel, E., *TSMC Jan. 2021* 5-21
- Rudas, I.J.**, see Kozma, R., *TSMC Jan. 2021* 2-4
- Ruiz, R.**, see Xu, H., *TSMC May 2021* 2860-2872
- Rutkowski, L.**, see Xu, S., *TSMC June 2021* 3617-3628
- Rutkowski, L.**, see He, J., *TSMC Nov. 2021* 6842-6851
- Rutkowski, L.**, see Wang, J., *TSMC Dec. 2021* 7579-7586

S

- Safaei, N.**, Premature Aircraft Maintenance: A Matter of Cost or Risk?; *TSMC Feb. 2021* 1064-1074
- Sahin, F.**, see Kumar, S., *TSMC Jan. 2021* 280-297
- Sakthivel, R.**, see Kaviarasan, B., *TSMC Oct. 2021* 6330-6341
- Sang, H.**, and Zhao, J., Input-Output Finite-Time Estimation for Complex Networks With Switching Topology Under Dynamic Event-Triggered Transmission; *TSMC Oct. 2021* 6513-6522
- Santoso, F.**, Garratt, M.A., and Anavatti, S.G., Hybrid PD-Fuzzy and PD Controllers for Trajectory Tracking of a Quadrotor Unmanned Aerial Vehicle: Autopilot Designs and Real-Time Flight Tests; *TSMC March 2021* 1817-1829
- Santoso, F.**, Garratt, M.A., and Anavatti, S.G., A Robust Hybrid of a Feedback Linearization Technique and an Interval Type-2 Fuzzy Control System for the Flapping Angle Dynamics of a Biomimetic Aircraft; *TSMC Sept. 2021* 5664-5673
- Savaglio, C.**, see Fortino, G., *TSMC Jan. 2021* 223-236
- Savkin, A.V.**, and Huang, H., Range-Based Reactive Deployment of Autonomous Drones for Optimal Coverage in Disaster Areas; *TSMC July 2021* 4606-4610
- Savur, C.**, see Kumar, S., *TSMC Jan. 2021* 280-297
- Scarcello, L.**, see Giordano, A., *TSMC March 2021* 1679-1689
- Schultz, P.**, see Mao, S., *TSMC April 2021* 2068-2079
- Seder, M.**, see Klancar, G., *TSMC Aug. 2021* 4868-4882
- Shakarami, M.**, see Esfandiari, K., *TSMC April 2021* 2476-2487
- Shang, M.**, see Luo, X., *TSMC Jan. 2021* 610-620
- Shang, M.**, see Luo, X., *TSMC June 2021* 3522-3532
- Shang, M.**, see Wu, D., *TSMC July 2021* 4285-4296
- Shang, M.**, see Xin, L., *TSMC Aug. 2021* 4612-4623
- Shanmugam, L.**, and Joo, Y.H., Design of Interval Type-2 Fuzzy-Based Sampled-Data Controller for Nonlinear Systems Using Novel Fuzzy Lyapunov Functional and its Application to PMSM; *TSMC Jan. 2021* 542-551
- Shanmugam, L.**, and Joo, Y.H., Stability and Stabilization for T-S Fuzzy Large-Scale Interconnected Power System With Wind Farm via Sampled-Data Control; *TSMC April 2021* 2134-2144
- Shao, F.**, Fu, Z., Jiang, Q., Jiang, G., and Ho, Y., Transformation-Aware Similarity Measurement for Image Retargeting Quality Assessment via Bidirectional Rewarping; *TSMC May 2021* 3053-3067

- Shao, J., *see* Shi, L., *TSMC Dec. 2021 7745-7751*
- Shao, S., and Chen, M., Adaptive Neural Discrete-Time Fractional-Order Control for a UAV System With Prescribed Performance Using Disturbance Observer; *TSMC Feb. 2021 742-754*
- Sharma, J., Andersen, P., Granmo, O., and Goodwin, M., Deep Q-Learning With Q-Matrix Transfer Learning for Novel Fire Evacuation Environment; *TSMC Dec. 2021 7363-7381*
- Sharma, S., Rastogi, R., and Chandra, S., Large-Scale Twin Parametric Support Vector Machine Using Pinball Loss Function; *TSMC Feb. 2021 987-1003*
- Sharmila, V., Rakkiyappan, R., and Joo, Y.H., Fuzzy Sampled-Data Control for DFIG-Based Wind Turbine With Stochastic Actuator Failures; *TSMC April 2021 2199-2211*
- She, Z., *see* Wang, L., *TSMC Feb. 2021 853-863*
- She, Z., *see* Wang, S., *TSMC Dec. 2021 7776-7787*
- Shen, C., *see* Wei, H., *TSMC Aug. 2021 5198-5208*
- Shen, G., *see* Zhang, J., *TSMC Nov. 2021 6606-6613*
- Shen, H., Jiao, S., Cao, J., and Huang, T., An Improved Result on Sampled-Data Synchronization of Markov Jump Delayed Neural Networks; *TSMC June 2021 3608-3616*
- Shen, H., *see* Li, F., *TSMC Sept. 2021 5752-5761*
- Shen, H., Huang, Z., Xia, J., Cao, J., and Park, J.H., Dissipativity Analysis of Switched Gene Regulatory Networks Actuated by Persistent Dwell-Time Switching Strategy; *TSMC Sept. 2021 5535-5546*
- Shen, H., *see* Nie, R., *TSMC Nov. 2021 6885-6891*
- Shen, H., *see* Yan, Z., *TSMC Nov. 2021 6712-6722*
- Shen, H., *see* Wang, J., *TSMC Dec. 2021 7579-7586*
- Shen, H., Pan, Y., Ahmad, U., and He, B., Pose Synchronization of Multiple Networked Manipulators Using Nonsingular Terminal Sliding Mode Control; *TSMC Dec. 2021 7497-7509*
- Shen, M., Zhang, H., Nguang, S.K., and Ahn, C.K., H_∞ Output Anti-Disturbance Control of Stochastic Markov Jump Systems With Multiple Disturbances; *TSMC Dec. 2021 7633-7643*
- Shen, S., *see* Liu, Y., *TSMC Aug. 2021 4716-4728*
- Shen, X., and Li, X., Data-Driven Output-Feedback LQ Secure Control for Unknown Cyber-Physical Systems Against Sparse Actuator Attacks; *TSMC Sept. 2021 5708-5720*
- Shen, Y., and Fang, M., Dissipativity-Based Asynchronous Control for 2-D Markov Jump Systems in Continuous-Time Domain; *TSMC Sept. 2021 5349-5356*
- Shen, Y., *see* Zhang, D., *TSMC Nov. 2021 7269-7278*
- Shen, Y., *see* Li, J., *TSMC Dec. 2021 7486-7496*
- Sheng, B., *see* Aouaidjia, K., *TSMC May 2021 2774-2788*
- Shi, C., and Yang, G., Distributed Composite Optimization Over Relay-Assisted Networks; *TSMC Oct. 2021 6587-6598*
- Shi, J., *see* Liu, Y., *TSMC Dec. 2021 7450-7465*
- Shi, K., *see* Luo, J., *TSMC Aug. 2021 4993-5004*
- Shi, L., Zheng, W.X., Shao, J., and Cheng, Y., Scaled Tracking Consensus in Discrete-Time Second-Order Multiagent Systems With Random Packet Dropouts; *TSMC Dec. 2021 7745-7751*
- Shi, P., *see* Hu, Z., *TSMC Jan. 2021 552-560*
- Shi, P., and Yan, B., A Survey on Intelligent Control for Multiagent Systems; *TSMC Jan. 2021 161-175*
- Shi, P., *see* Zhao, L., *TSMC Feb. 2021 1278-1287*
- Shi, P., *see* Xu, C., *TSMC Feb. 2021 954-964*
- Shi, P., *see* Hu, Z., *TSMC Feb. 2021 755-764*
- Shi, P., *see* Xu, Y., *TSMC March 2021 1642-1651*
- Shi, P., *see* Ni, J., *TSMC April 2021 2488-2500*
- Shi, P., *see* Liu, Z., *TSMC April 2021 2322-2331*
- Shi, P., *see* Yang, R., *TSMC May 2021 2737-2750*
- Shi, P., *see* Fang, M., *TSMC May 2021 2916-2925*
- Shi, P., *see* Guan, C., *TSMC May 2021 2873-2884*
- Shi, P., *see* Li, L., *TSMC May 2021 3304-3316*
- Shi, P., *see* Tao, J., *TSMC June 2021 3533-3540*
- Shi, P., *see* Gong, C., *TSMC Sept. 2021 5867-5879*
- Shi, P., *see* Lian, Z., *TSMC Oct. 2021 6477-6487*
- Shi, P., *see* Ni, J., *TSMC Dec. 2021 7903-7918*
- Shi, S., *see* Fei, Z., *TSMC Feb. 2021 712-720*
- Shi, S., Xu, S., and Feng, H., Robust Fixed-Time Consensus Tracking Control of High-Order Multiple Nonholonomic Systems; *TSMC March 2021 1869-1880*
- Shi, S., Xu, S., Gu, J., and Zhang, Z., Robust Exact Predictive Scheme for Output-Feedback Control of Input-Delay Systems With Unmatched Sinusoidal Disturbances; *TSMC Sept. 2021 5357-5366*
- Shi, W., Liu, P.X., and Zheng, M., Bleeding Simulation With Improved Visual Effects for Surgical Simulation Systems; *TSMC Feb. 2021 686-695*
- Shi, X., *see* Lu, J., *TSMC June 2021 3867-3875*
- Shi, Y., Mi, Y., Li, J., and Liu, W., Concept-Cognitive Learning Model for Incremental Concept Learning; *TSMC Feb. 2021 809-821*
- Shi, Y., *see* Hu, Q., *TSMC May 2021 3168-3179*
- Shi, Y., *see* Cai, B., *TSMC July 2021 4016-4027*
- Shi, Y., *see* Guo, W., *TSMC Aug. 2021 5218-5229*
- Shi, Y., *see* Wei, H., *TSMC Aug. 2021 5198-5208*
- Shi, Y., *see* Tang, H., *TSMC Oct. 2021 6074-6084*
- Shi, Y., *see* Ma, L., *TSMC Nov. 2021 6723-6742*
- Shi, Z., *see* Xu, B., *TSMC Feb. 2021 1107-1115*
- Shih, C., An, H., and Cheng, T., Output-Feedback-Based Consensus Control Without Continuous Interagent Communication; *TSMC May 2021 3240-3250*
- Shu, T., *see* Azimi, V., *TSMC Feb. 2021 1174-1191*
- Shu, Z., *see* Liu, J.J.R., *TSMC Oct. 2021 6207-6217*
- Shuai, M., *see* Xiong, L., *TSMC Sept. 2021 5626-5638*
- Simon, D., *see* Azimi, V., *TSMC Feb. 2021 1174-1191*
- Singh, A., *see* Bhandari, A.K., *TSMC May 2021 2760-2773*
- Skrjanc, I., *see* Klancar, G., *TSMC Aug. 2021 4868-4882*
- Small, M., *see* Li, K., *TSMC April 2021 2602-2610*
- Smirnov, D., and Golkar, A., Design Optimization Using Game Theory; *TSMC Feb. 2021 1302-1312*
- Smith, M.H., *see* Tunstel, E., *TSMC Jan. 2021 5-21*
- Song, A., Chen, W., Gu, T., Yuan, H., Kwong, S., and Zhang, J., Distributed Virtual Network Embedding System With Historical Archives and Set-Based Particle Swarm Optimization; *TSMC Feb. 2021 927-942*
- Song, H., *see* Lu, Q., *TSMC Nov. 2021 6874-6884*
- Song, L., *see* Li, L., *TSMC Dec. 2021 7675-7684*
- Song, R., *see* Li, Q., *TSMC Nov. 2021 6819-6829*
- Song, S., *see* Song, X., *TSMC June 2021 3650-3661*
- Song, S., Zhang, B., Song, X., and Zhang, Z., Neuro-Fuzzy-Based Adaptive Dynamic Surface Control for Fractional-Order Nonlinear Strict-Feedback Systems With Input Constraint; *TSMC June 2021 3575-3586*
- Song, S., *see* Yang, L., *TSMC July 2021 4262-4273*
- Song, S., *see* Li, Z., *TSMC July 2021 4149-4159*
- Song, S., *see* Hu, H., *TSMC Sept. 2021 5773-5784*
- Song, S., *see* Li, X., *TSMC Nov. 2021 6892-6900*
- Song, S., Park, J.H., Zhang, B., Song, X., and Zhang, Z., Adaptive Command Filtered Neuro-Fuzzy Control Design for Fractional-Order Nonlinear Systems With Unknown Control Directions and Input Quantization; *TSMC Nov. 2021 7238-7249*
- Song, S., *see* Zhao, Y., *TSMC Dec. 2021 7337-7345*
- Song, W., *see* Ma, Z., *TSMC Aug. 2021 5005-5016*
- Song, X., Man, J., Ahn, C.K., and Song, S., Finite-Time Dissipative Synchronization for Markovian Jump Generalized Inertial Neural Networks With Reaction-Diffusion Terms; *TSMC June 2021 3650-3661*
- Song, X., *see* Song, S., *TSMC June 2021 3575-3586*
- Song, X., *see* Song, S., *TSMC Nov. 2021 7238-7249*
- Song, X., *see* Cao, Z., *TSMC Dec. 2021 7752-7763*
- Song, Y., *see* Zhong, M., *TSMC July 2021 4251-4261*
- Song, Y., *see* Zhou, S., *TSMC Sept. 2021 5427-5436*
- Sorrentino, N., *see* Giordano, A., *TSMC March 2021 1679-1689*
- Spezzano, G., *see* Fortino, G., *TSMC Jan. 2021 223-236*
- Stewart, B.G., *see* Aizpurua, J.I., *TSMC Jan. 2021 621-633*
- Strasser, T.I., *see* Kumar, R., *TSMC April 2021 2036-2040*
- Su, C., *see* Yuan, W., *TSMC April 2021 2624-2634*
- Su, C., *see* Liu, Y., *TSMC Sept. 2021 5732-5741*
- Su, C., *see* Lu, Q., *TSMC Nov. 2021 6874-6884*
- Su, C., *see* Lu, Q., *TSMC Nov. 2021 6650-6659*

- Su, G.**, see Zhang, T., *TSMC Feb. 2021 1004-1014*
- Su, H.**, Ye, Y., Chen, X., and He, H., Necessary and Sufficient Conditions for Consensus in Fractional-Order Multiagent Systems via Sampled Data Over Directed Graph; *TSMC April 2021 2501-2511*
- Su, H.**, see Sun, Y., *TSMC July 2021 4543-4554*
- Su, H.**, see Wu, H., *TSMC July 2021 4057-4066*
- Su, H.**, see Zhang, J., *TSMC Oct. 2021 5938-5948*
- Su, H.**, see Zhang, H., *TSMC Oct. 2021 6293-6303*
- Su, H.**, Wang, X., Chen, X., and Zeng, Z., Second-Order Consensus of Hybrid Multiagent Systems; *TSMC Oct. 2021 6503-6512*
- Su, H.**, see Wang, X., *TSMC Dec. 2021 7788-7800*
- Su, H.**, see Xia, Y., *TSMC Dec. 2021 7735-7744*
- Su, H.**, see Sun, Y., *TSMC Dec. 2021 7801-7812*
- Su, J.**, see He, X., *TSMC Aug. 2021 4706-4715*
- Su, S.**, see Sun, W., *TSMC March 2021 1496-1506*
- Su, S.**, see Sun, Z., *TSMC July 2021 4409-4416*
- Su, S.**, see Tran, Q., *TSMC Sept. 2021 5587-5599*
- Su, S.**, see Sun, W., *TSMC Sept. 2021 5577-5586*
- Su, S.**, see Sun, W., *TSMC Oct. 2021 6555-6563*
- Su, S.**, see Nguyen, V., *TSMC Dec. 2021 7838-7849*
- Su, S.**, see Xia, Y., *TSMC Dec. 2021 7735-7744*
- Su, W.**, see Wu, M., *TSMC March 2021 1473-1484*
- Su, X.**, see Li, J., *TSMC June 2021 3392-3400*
- Su, X.**, see Yang, Y., *TSMC Sept. 2021 5557-5566*
- Su, Y.**, Liu, C., Niu, Y., Cheng, F., and Zhang, X., A Community Structure Enhancement-Based Community Detection Algorithm for Complex Networks; *TSMC May 2021 2833-2846*
- Subramaniam, R.**, and Joo, Y.H., Passivity-Based Fuzzy ISMC for Wind Energy Conversion Systems With PMSG; *TSMC April 2021 2212-2220*
- Suganthan, P.N.**, see Chen, H., *TSMC March 2021 1507-1522*
- Sun, C.**, see Jia, Y., *TSMC April 2021 2123-2133*
- Sun, C.**, see Wang, Q., *TSMC April 2021 2582-2591*
- Sun, C.**, see Chen, L., *TSMC June 2021 3599-3607*
- Sun, C.**, see Zhou, Y., *TSMC Aug. 2021 5080-5089*
- Sun, C.**, see Chen, L., *TSMC Sept. 2021 5405-5413*
- Sun, C.**, see Mu, C., *TSMC Oct. 2021 6488-6502*
- Sun, D.**, see Yang, W., *TSMC Feb. 2021 875-884*
- Sun, F.**, see Yuan, J., *TSMC May 2021 2963-2979*
- Sun, F.**, see Yuan, J., *TSMC Sept. 2021 5377-5391*
- Sun, G.**, see Liu, H., *TSMC Nov. 2021 7109-7119*
- Sun, H.**, Peng, C., Yue, D., Wang, Y.L., and Zhang, T., Resilient Load Frequency Control of Cyber-Physical Power Systems Under QoS-Dependent Event-Triggered Communication; *TSMC April 2021 2113-2122*
- Sun, H.**, Zong, G., and Ahn, C.K., Quantized Decentralized Adaptive Neural Network PI Tracking Control for Uncertain Interconnected Nonlinear Systems With Dynamic Uncertainties; *TSMC May 2021 3111-3124*
- Sun, H.**, see Cao, Y., *TSMC May 2021 3026-3039*
- Sun, H.**, Sun, J., and Chen, J., Quantized Control of Networked Control Systems Under Stochastic Clock Offsets; *TSMC May 2021 3004-3013*
- Sun, H.**, Liu, Y., and Li, F., Optimal Consensus via Distributed Protocol for Second-Order Multiagent Systems; *TSMC Oct. 2021 6218-6228*
- Sun, H.**, see Qiao, S., *TSMC Oct. 2021 6229-6243*
- Sun, H.**, see Liu, L., *TSMC Nov. 2021 6863-6873*
- Sun, H.**, Yang, L., Chen, Y., and Zhao, H., Constraint-Based Control Design for Uncertain Underactuated Mechanical System: Leakage-Type Adaptation Mechanism; *TSMC Dec. 2021 7663-7674*
- Sun, J.**, see Chen, M., *TSMC Feb. 2021 1334-1344*
- Sun, J.**, Yang, J., Li, S., and Zheng, W.X., Estimate-Based Dynamic Event-Triggered Output Feedback Control of Networked Nonlinear Uncertain Systems; *TSMC May 2021 3148-3158*
- Sun, J.**, see Sun, H., *TSMC May 2021 3004-3013*
- Sun, J.**, see Wu, G., *TSMC Aug. 2021 4825-4835*
- Sun, J.**, see Zhang, L., *TSMC Oct. 2021 6457-6465*
- Sun, J.**, see Pu, Z., *TSMC Nov. 2021 6757-6767*
- Sun, J.**, see Yu, X., *TSMC Nov. 2021 6994-7007*
- Sun, K.**, Qiu, J., Karimi, H.R., and Gao, H., A Novel Finite-Time Control for Nonstrict Feedback Saturated Nonlinear Systems With Tracking Error Constraint; *TSMC June 2021 3968-3979*
- Sun, L.**, see Xie, G., *TSMC May 2021 2980-2989*
- Sun, M.**, see Jia, Q., *TSMC June 2021 3320-3329*
- Sun, M.**, Li, H., and Li, W., On Finite-Duration Convergent Attracting Laws; *TSMC Aug. 2021 5017-5029*
- Sun, M.**, see Li, H., *TSMC Aug. 2021 5142-5152*
- Sun, N.**, see Liang, X., *TSMC July 2021 4171-4182*
- Sun, P.**, see Wu, L., *TSMC Jan. 2021 464-476*
- Sun, P.**, see Huang, D., *TSMC July 2021 4067-4077*
- Sun, Q.**, see Yuan, J., *TSMC Jan. 2021 354-369*
- Sun, Q.**, see Wang, R., *TSMC April 2021 2258-2268*
- Sun, Q.**, see Ma, D., *TSMC April 2021 2173-2186*
- Sun, Q.**, see Yuan, J., *TSMC May 2021 2963-2979*
- Sun, Q.**, see Yuan, J., *TSMC Sept. 2021 5377-5391*
- Sun, S.**, see Tian, T., *TSMC Sept. 2021 5762-5772*
- Sun, S.**, see Lin, H., *TSMC Sept. 2021 5511-5521*
- Sun, S.**, see Liu, J., *TSMC Nov. 2021 6962-6975*
- Sun, T.**, Peng, L., Cheng, L., Hou, Z., and Pan, Y., Stability-Guaranteed Variable Impedance Control of Robots Based on Approximate Dynamic Inversion; *TSMC July 2021 4193-4200*
- Sun, T.**, see Han, X., *TSMC Dec. 2021 7850-7859*
- Sun, W.**, Su, S., Dong, G., and Bai, W., Reduced Adaptive Fuzzy Tracking Control for High-Order Stochastic Nonstrict Feedback Nonlinear System With Full-State Constraints; *TSMC March 2021 1496-1506*
- Sun, W.**, see Sun, Z., *TSMC July 2021 4409-4416*
- Sun, W.**, see Tran, Q., *TSMC Sept. 2021 5587-5599*
- Sun, W.**, Su, S., Liu, Z., and Sun, Z., Adaptive Intelligent Control for Input and Output Constrained High-Order Uncertain Nonlinear Systems; *TSMC Sept. 2021 5577-5586*
- Sun, W.**, Su, S., Xia, J., and Zhuang, G., Command Filter-Based Adaptive Prescribed Performance Tracking Control for Stochastic Uncertain Nonlinear Systems; *TSMC Oct. 2021 6555-6563*
- Sun, W.**, see Zhuang, G., *TSMC Nov. 2021 6808-6818*
- Sun, W.**, Wang, L., and Wu, Y., Adaptive Dynamic Surface Fuzzy Control for State Constrained Time-Delay Nonlinear Nonstrict Feedback Systems With Unknown Control Directions; *TSMC Dec. 2021 7423-7434*
- Sun, W.**, see Nguyen, V., *TSMC Dec. 2021 7838-7849*
- Sun, X.**, see Yang, W., *TSMC Feb. 2021 875-884*
- Sun, X.**, and Zhang, Q., Sliding Mode Control for a Class of Nonlinear Singular Systems With Partly Immeasurable Premise Variables; *TSMC April 2021 2433-2443*
- Sun, X.**, see Wu, Y., *TSMC May 2021 2810-2820*
- Sun, X.**, Gao, Y., Sutcliffe, R., Guo, S., Wang, X., and Feng, J., Word Representation Learning Based on Bidirectional GRUs With Drop Loss for Sentiment Classification; *TSMC July 2021 4532-4542*
- Sun, X.**, Pei, Z., Zhang, C., Li, G., and Tao, J., Design and Analysis of a Human-Machine Interaction System for Researching Human's Dynamic Emotion; *TSMC Oct. 2021 6111-6121*
- Sun, Y.**, Wu, X., Wang, J., Hou, D., and Wang, S., Power Compensation of Network Losses in a Microgrid With BESS by Distributed Consensus Algorithm; *TSMC April 2021 2091-2100*
- Sun, Y.**, see Wang, J., *TSMC April 2021 2284-2298*
- Sun, Y.**, see Zhang, L., *TSMC April 2021 2370-2381*
- Sun, Y.**, see Liang, H., *TSMC June 2021 3889-3899*
- Sun, Y.**, Su, H., and Wang, X., Semiglobal Observer-Based Positive Scaled Edge-Consensus of Networked Discrete-Time Systems Under Actuator Saturation; *TSMC July 2021 4543-4554*
- Sun, Y.**, Su, H., Wang, X., and Zhang, H., H_∞ Control for Observer-Based Non-Negative Scaled Edge-Consensus of Networked Systems; *TSMC Dec. 2021 7801-7812*
- Sun, Z.**, see Xiao, X., *TSMC June 2021 3412-3428*
- Sun, Z.**, Liu, C., Su, S., and Sun, W., Robust Stabilization of High-Order Nonlinear Systems With Unknown Sensitivities and Applications in Humanoid Robot Manipulation; *TSMC July 2021 4409-4416*

Sun, Z., Liu, Q., Huang, N., Yu, C., and Anderson, B.D.O., Cooperative Event-Based Rigid Formation Control; *TSMC July 2021 4308-4320*
Sun, Z., see Lu, H., *TSMC Sept. 2021 5639-5651*
Sun, Z., see Sun, W., *TSMC Sept. 2021 5577-5586*
Sundaram, S., see Venugopal, V., *TSMC Jan. 2021 314-325*
Suresh, S., see Gautam, C., *TSMC March 2021 1917-1932*
Sutcliffe, R., see Sun, X., *TSMC July 2021 4532-4542*
Sutton, R.S., see Barto, A.G., *TSMC Jan. 2021 40-50*

T

Taghavifar, H., see Hu, C., *TSMC Sept. 2021 5336-5348*
Talukder, S., Ibrahim, M., and Kumar, R., Resilience Indices for Power/Cyber-physical Systems; *TSMC April 2021 2159-2172*
Tamssaouet, F., Nguyen, K.T.P., and Medjaher, K., System-Level Prognostics Under Mission Profile Effects Using Inoperability Input-Output Model; *TSMC Aug. 2021 4659-4669*
Tan, J., see Yang, Y., *TSMC Jan. 2021 588-600*
Tan, J., see Yang, Y., *TSMC Oct. 2021 5992-6002*
Tan, L.N., Event-Triggered Distributed H_∞ Constrained Control of Physically Interconnected Large-Scale Partially Unknown Strict-Feedback Systems; *TSMC April 2021 2444-2456*
Tan, M., see Wang, J., *TSMC May 2021 2904-2915*
Tan, M., see Cai, M., *TSMC Aug. 2021 4793-4803*
Tan, M., see Cai, M., *TSMC Aug. 2021 4751-4760*
Tan, M., see Wang, J., *TSMC Sept. 2021 5466-5477*
Tan, P., Li, X., Wu, Z., Ding, J., Ma, J., Chen, Y., Fang, Y., and Ning, Y., Multialgorithm Fusion Image Processing for High Speed Railway Dropper Failure-Defect Detection; *TSMC July 2021 4466-4478*
Tang, G., see Han, S., *TSMC Nov. 2021 6701-6711*
Tang, H., Dong, P., and Shi, Y., A Construction of Robust Representations for Small Data Sets Using Broad Learning System; *TSMC Oct. 2021 6074-6084*
Tang, J., see Hou, Y., *TSMC Oct. 2021 5962-5976*
Tang, S., Zhou, Z., Hu, C., Yang, J., and Cao, Y., Perturbation Analysis of Evidential Reasoning Rule; *TSMC Aug. 2021 4895-4910*
Tang, W., see Ma, H., *TSMC Feb. 2021 1322-1333*
Tang, W.K.S., see Jia, Q., *TSMC June 2021 3320-3329*
Tang, Y., see Mao, S., *TSMC April 2021 2068-2079*
Tang, Y., see Ni, J., *TSMC April 2021 2488-2500*
Tang, Y., see Ni, J., *TSMC April 2021 2550-2560*
Tang, Y., see Liu, H., *TSMC Nov. 2021 7109-7119*
Tang, Y., see Zhang, W., *TSMC Dec. 2021 7542-7552*
Tang, Z., Park, J.H., Wang, Y., and Zheng, W.X., Synchronization on Lur'e Cluster Networks With Proportional Delay: Impulsive Effects Method; *TSMC July 2021 4555-4565*
Tang, Z., see Yang, L., *TSMC July 2021 4505-4519*
Tang, Z., Park, J.H., Wang, Y., and Feng, J., Adaptively Synchronize the Derivative Coupled Complex Networks With Proportional Delay; *TSMC Aug. 2021 4969-4979*
Tao, B., see Xiao, M., *TSMC July 2021 4334-4346*
Tao, D., see Liu, D., *TSMC June 2021 3759-3770*
Tao, G., see Wen, L., *TSMC Aug. 2021 5030-5045*
Tao, J., Wei, C., Wu, J., Wang, X., and Shi, P., Nonfragile Observer-Based Control for Markovian Jump Systems Subject to Asynchronous Modes; *TSMC June 2021 3533-3540*
Tao, J., see Wu, X., *TSMC Aug. 2021 4693-4705*
Tao, J., see Sun, X., *TSMC Oct. 2021 6111-6121*
Tao, X., see Ling, Z., *TSMC Dec. 2021 7475-7485*
Tavakkol, B., Jeong, M.K., and Albin, S.L., Measures of Scatter and Fisher Discriminant Analysis for Uncertain Data; *TSMC March 2021 1690-1703*
Teng, L., see Zhang, Z., *TSMC May 2021 2726-2736*
Teo, T.T., Thillainathan, L., Woo, W.L., and Abidi, K., Intelligent Controller for Energy Storage System in Grid-Connected Microgrid; *TSMC Jan. 2021 650-658*
Thillainathan, L., see Teo, T.T., *TSMC Jan. 2021 650-658*
Tian, B., see Ye, L., *TSMC May 2021 3159-3167*
Tian, F., see Feng, Y., *TSMC Dec. 2021 7403-7412*

Tian, G., Hao, N., Zhou, M., Pedrycz, W., Zhang, C., Ma, F., and Li, Z., Fuzzy Grey Choquet Integral for Evaluation of Multicriteria Decision Making Problems With Interactive and Qualitative Indices; *TSMC March 2021 1855-1868*
Tian, M., see Kong, S., *TSMC Oct. 2021 6358-6368*
Tian, T., and Sun, S., Distributed Fusion Estimation for Multisensor Multirate Systems With Packet Dropout Compensations and Correlated Noises; *TSMC Sept. 2021 5762-5772*
Tian, W., see Luo, J., *TSMC Aug. 2021 4993-5004*
Tian, Y., see Ahmed, S., *TSMC Feb. 2021 1128-1137*
Tian, Y., see Hu, B., *TSMC April 2021 2187-2198*
Tian, Y., He, C., Cheng, R., and Zhang, X., A Multistage Evolutionary Algorithm for Better Diversity Preservation in Multiobjective Optimization; *TSMC Sept. 2021 5880-5894*
Tian, Y., see Yang, Y., *TSMC Oct. 2021 5992-6002*
Tian, Y., Yan, H., Zhang, H., Yang, S.X., and Li, Z., Observed-Based Finite-Time Control of Nonlinear Semi-Markovian Jump Systems With Saturation Constraint; *TSMC Nov. 2021 6639-6649*
Tian, Z., see Zhang, H., *TSMC May 2021 3014-3025*
Tiwari, A., see Gautam, C., *TSMC March 2021 1917-1932*
Tong, D., see Xu, C., *TSMC Feb. 2021 954-964*
Tong, S., see Li, Y., *TSMC March 2021 1372-1379*
Tong, S., see Wu, W., *TSMC Sept. 2021 5522-5534*
Torres, L.A.B., see Araujo, R.F., *TSMC Aug. 2021 4858-4867*
Trajkovic, L., see Tunstel, E., *TSMC Jan. 2021 5-21*
Tran, M., see Tran, Q., *TSMC Sept. 2021 5587-5599*
Tran, Q., Su, S., Sun, W., and Tran, M., Adaptive Pulsatile Plane for Robust Noncontact Heart Rate Monitoring; *TSMC Sept. 2021 5587-5599*
Tryfonas, T., see Gregory, J., *TSMC Nov. 2021 6946-6961*
Tsadimas, A., see Kapos, G., *TSMC June 2021 3330-3345*
Tsai, C., see Kuo, C., *TSMC Feb. 2021 1288-1301*
Tse, C.K., see Huang, Y., *TSMC Jan. 2021 400-411*
Tse, C.K., see Wang, S., *TSMC April 2021 2512-2524*
Tse, C.K., see Wu, X., *TSMC May 2021 2665-2675*
Tufail, M., see Razaq, M.A., *TSMC March 2021 1485-1495*
Tunstel, E., Cobo, M.J., Herrera-Viedma, E., Rudas, I.J., Filev, D., Trajkovic, L., Chen, C.L.P., Pedrycz, W., Smith, M.H., and Kozma, R., Systems Science and Engineering Research in the Context of Systems, Man, and Cybernetics: Recollection, Trends, and Future Directions; *TSMC Jan. 2021 5-21*

U

Urena, R., see Cao, M., *TSMC Oct. 2021 6134-6146*

V

Vadivel, R., and Joo, Y.H., Reliable Fuzzy H_∞ Control for Permanent Magnet Synchronous Motor Against Stochastic Actuator Faults; *TSMC April 2021 2232-2245*
Valavanis, K.P., see Liu, D., *TSMC July 2021 4102-4111*
Vamvoudakis, K.G., see Yang, Y., *TSMC Oct. 2021 6423-6434*
Vazquez, S., see Yin, Y., *TSMC Feb. 2021 674-685*
Venugopal, V., and Sundaram, S., Modified Sparse Representation Classification Framework for Online Writer Identification; *TSMC Jan. 2021 314-325*
Vicente, A., Zhao, S., and Huang, B., Forward-Backward Smoothers With Finite Impulse Response Structure; *TSMC Feb. 2021 765-774*
Vlacic, L., see Wang, Z., *TSMC May 2021 2992-3003*

W

Wan, K., and Li, X., High-Order Internal Model-Based Iterative Learning Control for 2-D Linear FMMI Systems With Iteration-Varying Trajectory Tracking; *TSMC March 2021 1462-1472*
Wan, K., and Li, X., Robust Iterative Learning Control of 2-D Linear Discrete FMMI Systems Subject to Iteration-Dependent Uncertainties; *TSMC Oct. 2021 5949-5961*

- Wan, X.**, Han, T., An, J., and Wu, M., Hidden Markov Model Based Fault Detection for Networked Singularly Perturbed Systems; *TSMC Oct. 2021* 6445-6456
- Wan, Y.**, see Wang, P., *TSMC Feb. 2021* 1116-1127
- Wan, Y.**, see He, C., *TSMC June 2021* 3876-3888
- Wan, Y.**, Wen, G., Yu, X., and Huang, T., Distributed Consensus Tracking of Networked Agent Systems Under Denial-of-Service Attacks; *TSMC Oct. 2021* 6183-6196
- Wang, A.**, He, H., and Liao, X., Event-Triggered Privacy-Preserving Average Consensus for Multiagent Networks With Time Delay: An Output Mask Approach; *TSMC July 2021* 4520-4531
- Wang, B.**, Li, H., Zhang, Q., and Wang, Y., Decomposition-Based Multiobjective Optimization for Constrained Evolutionary Optimization; *TSMC Jan. 2021* 574-587
- Wang, B.**, see Zhao, Y., *TSMC Jan. 2021* 532-541
- Wang, B.**, Cluster Event-Triggered Tracking Cooperative and Formation Control for Multivehicle Systems: An Extended Magnification Region Condition; *TSMC May 2021* 3229-3239
- Wang, B.**, see Liu, Z., *TSMC Sept. 2021* 5414-5426
- Wang, B.**, Cooperative Consensus for Heterogeneous Nonlinear Multiagent Systems Under a Leader Having Bounded Unknown Inputs; *TSMC Nov. 2021* 7075-7086
- Wang, C.**, see Huang, D., *TSMC Jan. 2021* 508-520
- Wang, C.**, see Hu, Q., *TSMC May 2021* 3168-3179
- Wang, C.**, see Xiao, X., *TSMC June 2021* 3412-3428
- Wang, C.**, Cheng, J., Chi, W., Yan, T., and Meng, M.Q., Semantic-Aware Informative Path Planning for Efficient Object Search Using Mobile Robot; *TSMC Aug. 2021* 5230-5243
- Wang, C.**, see Xiong, L., *TSMC Sept. 2021* 5626-5638
- Wang, C.**, see Fang, X., *TSMC Nov. 2021* 6830-6841
- Wang, D.**, see Zhang, Y., *TSMC Feb. 2021* 1354-1364
- Wang, D.**, see Luo, X., *TSMC Feb. 2021* 916-926
- Wang, D.**, Wang, Z., and Wen, C., Distributed Optimal Consensus Control for a Class of Uncertain Nonlinear Multiagent Networks With Disturbance Rejection Using Adaptive Technique; *TSMC July 2021* 4389-4399
- Wang, D.**, see Gu, N., *TSMC Aug. 2021* 5105-5115
- Wang, D.**, see Li, D., *TSMC Sept. 2021* 5929-5934
- Wang, F.**, see Wang, X., *TSMC Jan. 2021* 253-265
- Wang, F.**, Wen, G., Peng, Z., Huang, T., and Yu, Y., Event-Triggered Consensus of General Linear Multiagent Systems With Data Sampling and Random Packet Losses; *TSMC Feb. 2021* 1313-1321
- Wang, G.**, see Zhang, Q., *TSMC May 2021* 2640-2652
- Wang, G.**, see Wu, D., *TSMC July 2021* 4285-4296
- Wang, G.**, see Wu, G., *TSMC Aug. 2021* 4825-4835
- Wang, G.**, Wong, K.W., and Lu, J., AUC-Based Extreme Learning Machines for Supervised and Semi-Supervised Imbalanced Classification; *TSMC Dec. 2021* 7919-7930
- Wang, H.**, see Bao, J., *TSMC Jan. 2021* 452-463
- Wang, H.**, see Ahmed, S., *TSMC Feb. 2021* 1128-1137
- Wang, H.**, see Xu, M., *TSMC March 2021* 1567-1581
- Wang, H.**, see Liu, C., *TSMC May 2021* 2894-2903
- Wang, H.**, see Zhang, Z., *TSMC May 2021* 2726-2736
- Wang, H.**, see Yin, L., *TSMC July 2021* 4443-4452
- Wang, H.**, see Liu, Y., *TSMC Oct. 2021* 6159-6169
- Wang, H.**, see Li, Y., *TSMC Oct. 2021* 6040-6049
- Wang, H.**, see Cui, L., *TSMC Oct. 2021* 6282-6292
- Wang, J.**, see Ding, D., *TSMC Jan. 2021* 176-190
- Wang, J.**, Luo, W., Liu, J., and Wu, L., Adaptive Type-2 FNN-Based Dynamic Sliding Mode Control of DC-DC Boost Converters; *TSMC April 2021* 2246-2257
- Wang, J.**, see Sun, Y., *TSMC April 2021* 2091-2100
- Wang, J.**, Yuan, L., Zhang, Z., Gao, S., Sun, Y., and Zhou, Y., Multiobjective Multiple Neighborhood Search Algorithms for Multiobjective Fleet Size and Mix Location-Routing Problem With Time Windows; *TSMC April 2021* 2284-2298
- Wang, J.**, Wu, Z., Tan, M., and Yu, J., 3-D Path Planning With Multiple Motions for a Gliding Robotic Dolphin; *TSMC May 2021* 2904-2915
- Wang, J.**, see Zhang, Z., *TSMC May 2021* 2726-2736
- Wang, J.**, see Zhang, L., *TSMC May 2021* 3205-3216
- Wang, J.**, see Gao, S., *TSMC June 2021* 3954-3967
- Wang, J.**, see Yang, L., *TSMC July 2021* 4505-4519
- Wang, J.**, see Chen, Y., *TSMC July 2021* 4160-4170
- Wang, J.**, Lin, D., Deng, Z., Jiang, Y., Zhu, J., Chen, L., Li, Z., Gong, L., and Wang, S., Multitask TSK Fuzzy System Modeling by Jointly Reducing Rules and Consequent Parameters; *TSMC July 2021* 4078-4090
- Wang, J.**, see Du, S., *TSMC Aug. 2021* 4670-4680
- Wang, J.**, Qiao, J., Wen, G., Duan, Z., and Huang, T., Rendezvous of Heterogeneous Multiagent Systems With Nonuniform Time-Varying Information Delays: An Adaptive Approach; *TSMC Aug. 2021* 4848-4857
- Wang, J.**, Exponentially Stabilizing Observer-Based Feedback Control of a Sampled-Data Linear Parabolic Multiple-Input-Multiple-Output PDE; *TSMC Sept. 2021* 5742-5751
- Wang, J.**, Wu, Z., Tan, M., and Yu, J., Model Predictive Control-Based Depth Control in Gliding Motion of a Gliding Robotic Dolphin; *TSMC Sept. 2021* 5466-5477
- Wang, J.**, see Cui, L., *TSMC Oct. 2021* 6282-6292
- Wang, J.**, Yang, C., Shen, H., Cao, J., and Rutkowski, L., Sliding-Mode Control for Slow-Sampling Singularly Perturbed Systems Subject to Markov Jump Parameters; *TSMC Dec. 2021* 7579-7586
- Wang, K.**, see Yang, Y., *TSMC Sept. 2021* 5557-5566
- Wang, K.**, see Mu, C., *TSMC Oct. 2021* 6488-6502
- Wang, L.**, Zeng, Z., and Ge, M., A Disturbance Rejection Framework for Finite-Time and Fixed-Time Stabilization of Delayed Memristive Neural Networks; *TSMC Feb. 2021* 905-915
- Wang, L.**, Liang, Q., She, Z., Lu, J., and Wang, Q., A Decomposition Approach for Synchronization of Heterogeneous Complex Networks; *TSMC Feb. 2021* 853-863
- Wang, L.**, Liu, Y., Wu, Z., Lu, J., and Yu, L., Stabilization and Finite-Time Stabilization of Probabilistic Boolean Control Networks; *TSMC March 2021* 1559-1566
- Wang, L.**, see Guo, F., *TSMC April 2021* 2041-2053
- Wang, L.**, Yu, J., Zhang, R., Li, P., and Gao, F., Iterative Learning Control for Multiphase Batch Processes With Asynchronous Switching; *TSMC April 2021* 2536-2549
- Wang, L.**, see Fang, M., *TSMC April 2021* 2425-2432
- Wang, L.**, see Wang, Z., *TSMC May 2021* 2992-3003
- Wang, L.**, see Deng, M., *TSMC Oct. 2021* 6388-6403
- Wang, L.**, see Han, S., *TSMC Nov. 2021* 6701-6711
- Wang, L.**, see Sun, W., *TSMC Dec. 2021* 7423-7434
- Wang, L.**, see Zhao, D., *TSMC Dec. 2021* 7823-7837
- Wang, M.**, see Wu, L., *TSMC Jan. 2021* 464-476
- Wang, M.**, see Zhang, Q., *TSMC Dec. 2021* 7510-7516
- Wang, M.**, Huang, L., and Yang, C., NN-Based Adaptive Tracking Control of Discrete-Time Nonlinear Systems With Actuator Saturation and Event-Triggering Protocol; *TSMC Dec. 2021* 7613-7621
- Wang, N.**, and Li, X., Optimal Output Synchronization Control of a Class of Complex Dynamical Networks With Partially Unknown System Dynamics; *TSMC Feb. 2021* 822-832
- Wang, P.**, Wen, G., Yu, X., Yu, W., and Wan, Y., Synchronization of Resilient Complex Networks Under Attacks; *TSMC Feb. 2021* 1116-1127
- Wang, P.**, see Wang, R., *TSMC April 2021* 2258-2268
- Wang, Q.**, Yu, H., Wu, Z., and Chen, G., Stability Analysis for Input Saturated Discrete-Time Switched Systems With Average Dwell-Time; *TSMC Jan. 2021* 412-419
- Wang, Q.**, see Wang, L., *TSMC Feb. 2021* 853-863
- Wang, Q.**, see Li, Y., *TSMC March 2021* 1372-1379
- Wang, Q.**, see Hao, Y., *TSMC March 2021* 1757-1765
- Wang, Q.**, Psillakis, H.E., and Sun, C., Cooperative Control of Multiple High-Order Agents With Nonidentical Unknown Control Directions Under Fixed and Time-Varying Topologies; *TSMC April 2021* 2582-2591
- Wang, Q.**, Chen, J., Xin, B., and Zeng, X., Distributed Optimal Consensus for Euler-Lagrange Systems Based on Event-Triggered Control; *TSMC July 2021* 4588-4598
- Wang, Q.**, see Li, S., *TSMC Aug. 2021* 4814-4824

- Wang, R.**, Sun, Q., Hu, W., Xiao, J., Zhang, H., and Wang, P., Stability-Oriented Droop Coefficients Region Identification for Inverters Within Weak Grid: An Impedance-Based Approach; *TSMC April 2021* 2258-2268
- Wang, R.**, see Cao, Y., *TSMC May 2021* 3026-3039
- Wang, R.**, see Cai, M., *TSMC Aug. 2021* 4793-4803
- Wang, R.**, see Cai, M., *TSMC Aug. 2021* 4751-4760
- Wang, R.**, see Yang, B., *TSMC Dec. 2021* 7392-7402
- Wang, S.**, see Sun, Y., *TSMC April 2021* 2091-2100
- Wang, S.**, Wang, W., Xiong, K., lu, H.H.C., and Tse, C.K., Logarithmic Hyperbolic Cosine Adaptive Filter and Its Performance Analysis; *TSMC April 2021* 2512-2524
- Wang, S.**, see Na, J., *TSMC June 2021* 3832-3843
- Wang, S.**, see Wang, J., *TSMC July 2021* 4078-4090
- Wang, S.**, see Cai, M., *TSMC Aug. 2021* 4793-4803
- Wang, S.**, see Cai, M., *TSMC Aug. 2021* 4751-4760
- Wang, S.**, see Guo, W., *TSMC Aug. 2021* 5218-5229
- Wang, S.**, see Zhou, J., *TSMC Oct. 2021* 6015-6028
- Wang, S.**, She, Z., and Ge, S.S., Estimating Minimal Domains of Attraction for Uncertain Nonlinear Systems; *TSMC Dec. 2021* 7776-7787
- Wang, T.**, see Fei, Z., *TSMC Feb. 2021* 712-720
- Wang, T.**, see Zhang, H., *TSMC May 2021* 2687-2700
- Wang, T.**, see Liu, X., *TSMC June 2021* 3844-3854
- Wang, T.**, Hu, M., and Zhao, Y., Adaptive Tracking Control of FIR Systems Under Binary-Valued Observations and Recursive Projection Identification; *TSMC Sept. 2021* 5289-5299
- Wang, T.**, see Kong, G., *TSMC Nov. 2021* 7131-7142
- Wang, T.**, see Li, P., *TSMC Dec. 2021* 7435-7449
- Wang, W.**, see Wang, S., *TSMC April 2021* 2512-2524
- Wang, W.**, see Xu, L., *TSMC Nov. 2021* 7177-7190
- Wang, X.**, Zheng, X., Chen, W., and Wang, F., Visual Human-Computer Interactions for Intelligent Vehicles and Intelligent Transportation Systems: The State of the Art and Future Directions; *TSMC Jan. 2021* 253-265
- Wang, X.**, see Xu, B., *TSMC Feb. 2021* 1107-1115
- Wang, X.**, see Fei, Z., *TSMC March 2021* 1630-1641
- Wang, X.**, Zha, X., Ni, W., Liu, R.P., Guo, Y.J., Niu, X., and Zheng, K., Game Theoretic Suppression of Forged Messages in Online Social Networks; *TSMC March 2021* 1601-1611
- Wang, X.**, Li, Q., Gong, P., and Cheng, Y., Zero-Shot Learning Based on Multi-task Extended Attribute Groups; *TSMC March 2021* 2003-2011
- Wang, X.**, Park, J.H., Yang, H., and Zhong, S., An Improved Impulsive Control Approach for Cluster Synchronization of Complex Networks With Parameter Mismatches; *TSMC April 2021* 2561-2570
- Wang, X.**, see Gu, H., *TSMC May 2021* 2676-2686
- Wang, X.**, see Tao, J., *TSMC June 2021* 3533-3540
- Wang, X.**, Li, T., and Cheng, Y., Proximal Parameter Distribution Optimization; *TSMC June 2021* 3771-3780
- Wang, X.**, see Lin, Y., *TSMC June 2021* 3725-3738
- Wang, X.**, see Sun, X., *TSMC July 2021* 4532-4542
- Wang, X.**, see Sun, Y., *TSMC July 2021* 4543-4554
- Wang, X.**, Bao, A., Lv, E., and Cheng, Y., Multiscale Multipath Ensemble Convolutional Neural Network; *TSMC Sept. 2021* 5918-5928
- Wang, X.**, Xing, K., Feng, Y., and Wu, Y., Scheduling of Flexible Manufacturing Systems Subject to No-Wait Constraints via Petri Nets and Heuristic Search; *TSMC Oct. 2021* 6122-6133
- Wang, X.**, see Su, H., *TSMC Oct. 2021* 6503-6512
- Wang, X.**, Jiang, G., and Su, H., Robust Global Coordination of Networked Systems With Input Saturation and External Disturbances; *TSMC Dec. 2021* 7788-7800
- Wang, X.**, see Wang, X., *TSMC Dec. 2021* 7788-7800
- Wang, X.**, see Sun, Y., *TSMC Dec. 2021* 7801-7812
- Wang, Y.**, see Yang, L., *TSMC Jan. 2021* 420-440
- Wang, Y.**, see Wang, B., *TSMC Jan. 2021* 574-587
- Wang, Y.**, see Liu, H., *TSMC Feb. 2021* 1215-1223
- Wang, Y.**, see Yan, H., *TSMC Feb. 2021* 1233-1243
- Wang, Y.**, see Lin, W., *TSMC April 2021* 2355-2369
- Wang, Y.**, see Gao, S., *TSMC June 2021* 3954-3967
- Wang, Y.**, see Lu, J., *TSMC June 2021* 3867-3875
- Wang, Y.**, see Jin, D., *TSMC July 2021* 4365-4378
- Wang, Y.**, see Tang, Z., *TSMC July 2021* 4555-4565
- Wang, Y.**, see Zhou, T., *TSMC Aug. 2021* 4920-4928
- Wang, Y.**, see Cai, M., *TSMC Aug. 2021* 4793-4803
- Wang, Y.**, see Cai, M., *TSMC Aug. 2021* 4751-4760
- Wang, Y.**, see Ma, Z., *TSMC Aug. 2021* 5005-5016
- Wang, Y.**, see Li, Y., *TSMC Aug. 2021* 5209-5217
- Wang, Y.**, see Tang, Z., *TSMC Aug. 2021* 4969-4979
- Wang, Y.**, see Liu, X., *TSMC Aug. 2021* 5254-5260
- Wang, Y.**, see Liu, Z., *TSMC Sept. 2021* 5414-5426
- Wang, Y.**, Jiang, B., Wu, Z., Xie, S., and Peng, Y., Adaptive Sliding Mode Fault-Tolerant Fuzzy Tracking Control With Application to Unmanned Marine Vehicles; *TSMC Nov. 2021* 6691-6700
- Wang, Y.**, see Chang, S., *TSMC Nov. 2021* 7120-7130
- Wang, Y.**, see Liu, L., *TSMC Dec. 2021* 7314-7325
- Wang, Y.L.**, see Sun, H., *TSMC April 2021* 2113-2122
- Wang, Y.Y.**, Zhang, J.Y., and Zhang, H.G., Sliding-Mode Control for Fuzzy Stochastic Systems With Different Local-Input Matrices ; *TSMC Aug. 2021* 4761-4772
- Wang, Z.**, see Zhao, Z., *TSMC Jan. 2021* 441-451
- Wang, Z.**, see Luo, X., *TSMC Jan. 2021* 610-620
- Wang, Z.**, He, H., Jiang, G., and Cao, J., Quasi-Synchronization in Heterogeneous Harmonic Oscillators With Continuous and Sampled Coupling; *TSMC Feb. 2021* 1267-1277
- Wang, Z.**, see Gao, Y., *TSMC March 2021* 1981-1993
- Wang, Z.**, see Xia, J., *TSMC March 2021* 1945-1953
- Wang, Z.**, see Han, F., *TSMC March 2021* 1892-1903
- Wang, Z.**, see Zou, L., *TSMC March 2021* 1904-1916
- Wang, Z.**, see Zou, L., *TSMC May 2021* 2937-2948
- Wang, Z.**, and Li, H., Dissimilarity Analysis-Based Multimode Modeling for Complex Distributed Parameter Systems; *TSMC May 2021* 2789-2797
- Wang, Z.**, Wang, L., Zhang, H., Vlacic, L., and Chen, Q., Distributed Formation Control of Nonholonomic Wheeled Mobile Robots Subject to Longitudinal Slippage Constraints; *TSMC May 2021* 2992-3003
- Wang, Z.**, see Luo, X., *TSMC June 2021* 3522-3532
- Wang, Z.**, see Zhao, D., *TSMC June 2021* 3926-3938
- Wang, Z.**, see Wang, D., *TSMC July 2021* 4389-4399
- Wang, Z.**, see Huang, C., *TSMC Aug. 2021* 4804-4813
- Wang, Z.**, see Li, H., *TSMC Aug. 2021* 5244-5253
- Wang, Z.**, see Gao, W., *TSMC Sept. 2021* 5652-5663
- Wang, Z.**, see Ding, D., *TSMC Oct. 2021* 6466-6476
- Wang, Z.**, see Ma, L., *TSMC Nov. 2021* 6614-6625
- Wang, Z.**, see Rahman, I.U., *TSMC Nov. 2021* 6626-6638
- Wang, Z.**, see Hu, J., *TSMC Nov. 2021* 7063-7074
- Wang, Z.**, see Li, J., *TSMC Dec. 2021* 7486-7496
- Wang, Z.**, see Zhao, D., *TSMC Dec. 2021* 7823-7837
- Wang, Z.**, see Xu, Y., *TSMC Dec. 2021* 7727-7734
- Wang, Y.**, see Zhao, L., *TSMC Feb. 2021* 1164-1173
- Wei, B.**, and Xiao, F., Distributed Consensus Control of Linear Multiagent Systems With Adaptive Nonlinear Couplings; *TSMC Feb. 2021* 1365-1370
- Wei, C.**, see Tao, J., *TSMC June 2021* 3533-3540
- Wei, C.**, see Hu, C., *TSMC Sept. 2021* 5336-5348
- Wei, G.**, see Zhao, D., *TSMC June 2021* 3926-3938
- Wei, H.**, see Wen, S., *TSMC March 2021* 1794-1804
- Wei, H.**, see Liu, Z., *TSMC July 2021* 4217-4226
- Wei, H.**, Shen, C., and Shi, Y., Distributed Lyapunov-Based Model Predictive Formation Tracking Control for Autonomous Underwater Vehicles Subject to Disturbances; *TSMC Aug. 2021* 5198-5208
- Wei, J.**, see Xu, L., *TSMC Nov. 2021* 7177-7190
- Wei, L.**, Jin, L., Yang, C., Chen, K., and Li, W., New Noise-Tolerant Neural Algorithms for Future Dynamic Nonlinear Optimization With Estimation on Hessian Matrix Inversion; *TSMC April 2021* 2611-2623
- Wei, Q.**, see Liu, D., *TSMC Jan. 2021* 142-160
- Wei, Q.**, see Zhang, R., *TSMC Dec. 2021* 7764-7775
- Wei, R.**, Cao, J., and Abdel-Aty, M., Fixed-Time Synchronization of Second-Order MNNs in Quaternion Field; *TSMC June 2021* 3587-3598
- Wei, X.**, see Liu, J., *TSMC Feb. 2021* 1085-1096

- Wei, Y., *see* Li, Y., *TSMC Aug. 2021 5209-5217*
- Wei, Y., and Michiels, W., Output Homogenization and Synchronization of Heterogeneous Nonlinear Multiagent Networks; *TSMC Dec. 2021 7295-7304*
- Wen, C., *see* Guo, F., *TSMC April 2021 2041-2053*
- Wen, C., *see* Wang, D., *TSMC July 2021 4389-4399*
- Wen, C., *see* Zhou, Z., *TSMC Aug. 2021 4944-4958*
- Wen, C., *see* Li, X., *TSMC Dec. 2021 7860-7869*
- Wen, G., *see* Zhao, Y., *TSMC Jan. 2021 532-541*
- Wen, G., *see* Zhu, Y., *TSMC Feb. 2021 1097-1106*
- Wen, G., *see* Wang, F., *TSMC Feb. 2021 1313-1321*
- Wen, G., *see* Wang, P., *TSMC Feb. 2021 1116-1127*
- Wen, G., *see* Cheng, Y., *TSMC July 2021 4040-4047*
- Wen, G., *see* Wang, J., *TSMC Aug. 2021 4848-4857*
- Wen, G., *see* Cao, Z., *TSMC Sept. 2021 5274-5288*
- Wen, G., *see* Wan, Y., *TSMC Oct. 2021 6183-6196*
- Wen, G., Yu, X., Yu, W., and Lu, J., Coordination and Control of Complex Network Systems With Switching Topologies: A Survey; *TSMC Oct. 2021 6342-6357*
- Wen, G., *see* Ye, M., *TSMC Dec. 2021 7413-7422*
- Wen, L., Tao, G., Jiang, B., and Chen, W., Adaptive Compensation of Persistent Actuator Failures Using Control-Separation-Based LQ Design; *TSMC Aug. 2021 5030-5045*
- Wen, S., Wei, H., Yang, Y., Guo, Z., Zeng, Z., Huang, T., and Chen, Y., Memristive LSTM Network for Sentiment Analysis; *TSMC March 2021 1794-1804*
- Wen, S., Liu, W., Yang, Y., Zhou, P., Guo, Z., Yan, Z., Chen, Y., and Huang, T., Multilabel Image Classification via Feature/Label Co-Projection; *TSMC Nov. 2021 7250-7259*
- Wen, T., *see* Xie, G., *TSMC May 2021 2980-2989*
- Wong, K.W., *see* Wang, G., *TSMC Dec. 2021 7919-7930*
- Woo, W.L., *see* Teo, T.T., *TSMC Jan. 2021 650-658*
- Wu, D., Luo, X., Shang, M., He, Y., Wang, G., and Zhou, M., A Deep Latent Factor Model for High-Dimensional and Sparse Matrices in Recommender Systems; *TSMC July 2021 4285-4296*
- Wu, F., *see* Zhang, K., *TSMC June 2021 3781-3795*
- Wu, G., *see* Chen, H., *TSMC March 2021 1507-1522*
- Wu, G., Wang, G., Sun, J., and Xiong, L., Optimal Switching Attacks and Countermeasures in Cyber-Physical Systems; *TSMC Aug. 2021 4825-4835*
- Wu, G., *see* Deng, M., *TSMC Oct. 2021 6388-6403*
- Wu, G., *see* Liu, Y., *TSMC Dec. 2021 7450-7465*
- Wu, H., *see* Lin, C., *TSMC May 2021 2926-2936*
- Wu, H., *see* Zhang, K., *TSMC June 2021 3781-3795*
- Wu, H., Lam, J., and Su, H., Global Consensus of Positive Edge System With Sector Input Nonlinearities; *TSMC July 2021 4057-4066*
- Wu, H., *see* Qiao, J., *TSMC July 2021 4274-4284*
- Wu, J., *see* Huang, Y., *TSMC Jan. 2021 400-411*
- Wu, J., *see* Tao, J., *TSMC June 2021 3533-3540*
- Wu, J., *see* Cao, M., *TSMC Oct. 2021 6134-6146*
- Wu, K., *see* Jia, Y., *TSMC April 2021 2123-2133*
- Wu, K., *see* Lu, X.S., *TSMC July 2021 4324-4333*
- Wu, L., Sun, P., Hong, R., Ge, Y., and Wang, M., Collaborative Neural Social Recommendation; *TSMC Jan. 2021 464-476*
- Wu, L., *see* Yin, Y., *TSMC Feb. 2021 674-685*
- Wu, L., *see* Hong, R., *TSMC March 2021 1434-1445*
- Wu, L., *see* Ji, W., *TSMC March 2021 1652-1661*
- Wu, L., *see* Gao, Y., *TSMC March 2021 1981-1993*
- Wu, L., *see* Wang, J., *TSMC April 2021 2246-2257*
- Wu, L., *see* Zhang, K., *TSMC June 2021 3781-3795*
- Wu, L., *see* Yi, J., *TSMC Aug. 2021 4980-4992*
- Wu, M., Su, W., Chen, L., Liu, Z., Cao, W., and Hirota, K., Weight-Adapted Convolution Neural Network for Facial Expression Recognition in Human-Robot Interaction; *TSMC March 2021 1473-1484*
- Wu, M., *see* Yan, Z., *TSMC March 2021 1671-1678*
- Wu, M., *see* Long, F., *TSMC April 2021 2457-2466*
- Wu, M., *see* Xiong, N., *TSMC July 2021 4112-4126*
- Wu, M., *see* Lu, C., *TSMC Oct. 2021 6085-6095*
- Wu, M., *see* Wan, X., *TSMC Oct. 2021 6445-6456*
- Wu, M., *see* Lian, Z., *TSMC Oct. 2021 6477-6487*
- Wu, M., *see* Fu, H., *TSMC Nov. 2021 6976-6985*
- Wu, N., *see* Qiao, Y., *TSMC March 2021 1612-1629*
- Wu, N., *see* Chen, H., *TSMC July 2021 4347-4358*
- Wu, N., *see* Qiao, Y., *TSMC Nov. 2021 6792-6807*
- Wu, N., Xu, Y., Kilgour, D.M., and Fang, L., Composite Decision Makers in the Graph Model for Conflict Resolution: Hesitant Fuzzy Preference Modeling; *TSMC Dec. 2021 7889-7902*
- Wu, Q., *see* Chen, M., *TSMC March 2021 1414-1423*
- Wu, Q., *see* Zhang, Y., *TSMC June 2021 3796-3807*
- Wu, W., *see* Huang, X., *TSMC Aug. 2021 4624-4638*
- Wu, W., Li, Y., and Tong, S., Fuzzy Adaptive Tracking Control for State Constraint Switched Stochastic Nonlinear Systems With Unstable Inverse Dynamics; *TSMC Sept. 2021 5522-5534*
- Wu, X., *see* Liu, J., *TSMC Feb. 2021 1085-1096*
- Wu, X., *see* Hong, R., *TSMC March 2021 1434-1445*
- Wu, X., *see* Sun, Y., *TSMC April 2021 2091-2100*
- Wu, X., Dong, H., and Tse, C.K., A Three-Layer Model for Studying Metro Network Dynamics; *TSMC May 2021 2665-2675*
- Wu, X., *see* Liu, D., *TSMC June 2021 3759-3770*
- Wu, X., Gu, Y., Tao, J., Li, G., Han, J., and Xiong, N., An Effective Data-Driven Cloud Resource Procurement Scheme With Personalized Reserve Prices; *TSMC Aug. 2021 4693-4705*
- Wu, X., *see* Zhao, T., *TSMC Aug. 2021 5090-5104*
- Wu, X., *see* Qiao, S., *TSMC Oct. 2021 6229-6243*
- Wu, X., *see* Cheng, S., *TSMC Nov. 2021 6901-6910*
- Wu, Y., and Dong, J., Local Stabilization of Continuous-Time T-S Fuzzy Systems With Partly Measurable Premise Variables and Time-Varying Delay; *TSMC Jan. 2021 326-338*
- Wu, Y., and Xie, X., Robust Adaptive Control for State-Constrained Nonlinear Systems With Input Saturation and Unknown Control Direction; *TSMC Feb. 2021 1192-1202*
- Wu, Y., and Dong, J., Cyber-Physical Attacks Against State Estimators Based on a Finite Frequency Approach; *TSMC Feb. 2021 864-874*
- Wu, Y., Hu, K., Sun, X., and Ma, Y., Nonlinear Control of Quadrotor for Fault Tolerance: A Total Failure of One Actuator; *TSMC May 2021 2810-2820*
- Wu, Y., Li, H., and Li, W., Intermittent Control Strategy for Synchronization Analysis of Time-Varying Complex Dynamical Networks; *TSMC May 2021 3251-3262*
- Wu, Y., *see* Lin, Y., *TSMC June 2021 3725-3738*
- Wu, Y., *see* Meng, D., *TSMC Aug. 2021 5174-5188*
- Wu, Y., *see* Zhang, Z., *TSMC Sept. 2021 5300-5310*
- Wu, Y., *see* Wang, X., *TSMC Oct. 2021 6122-6133*
- Wu, Y., *see* Sun, W., *TSMC Dec. 2021 7423-7434*
- Wu, Y., *see* Han, X., *TSMC Dec. 2021 7850-7859*
- Wu, Z., *see* Wang, Q., *TSMC Jan. 2021 412-419*
- Wu, Z., *see* Liu, J., *TSMC Feb. 2021 943-953*
- Wu, Z., *see* Wang, L., *TSMC March 2021 1559-1566*
- Wu, Z., Liu, S., Ding, C., Ren, Z., and Xie, S., Learning Graph Similarity With Large Spectral Gap; *TSMC March 2021 1590-1600*
- Wu, Z., *see* Fang, M., *TSMC April 2021 2425-2432*
- Wu, Z., *see* Wang, J., *TSMC May 2021 2904-2915*
- Wu, Z., Cheng, B., and Li, Z., Distributed Adaptive Tracking Control for Lur'e Systems With Event-Triggered Strategy; *TSMC May 2021 3263-3269*
- Wu, Z., Pan, X., Fan, K., Liu, K., and Xiang, Y., Device-Free Orientation Detection Based on CSI and Visibility Graph; *TSMC July 2021 4433-4442*
- Wu, Z., *see* Tan, P., *TSMC July 2021 4466-4478*
- Wu, Z., *see* Liu, J., *TSMC Aug. 2021 4782-4792*
- Wu, Z., *see* Du, S., *TSMC Aug. 2021 4670-4680*
- Wu, Z., *see* Wang, J., *TSMC Sept. 2021 5466-5477*
- Wu, Z., *see* Gu, Z., *TSMC Oct. 2021 6197-6206*
- Wu, Z., *see* Kong, S., *TSMC Oct. 2021 6358-6368*
- Wu, Z., *see* Yu, J., *TSMC Oct. 2021 6523-6534*
- Wu, Z., *see* Wang, Y., *TSMC Nov. 2021 6691-6700*
- Wu, Z., Yang, X., and Xu, J., Dual Models and Return Allocations for Consensus Building Under Weighted Average Operators; *TSMC Nov. 2021 7164-7176*

Wu, Z., Xiong, J., and Xie, M., A Switching Method to Event-Triggered Output Feedback Control for Unmanned Aerial Vehicles Over Cognitive Radio Networks; *TSMC Dec. 2021 7530-7541*

Wunsch, D.C., see Yang, Y., *TSMC Oct. 2021 6423-6434*

X

Xia, D., see Li, H., *TSMC Aug. 2021 5244-5253*

Xia, J., Zhang, J., Feng, J., Wang, Z., and Zhuang, G., Command Filter-Based Adaptive Fuzzy Control for Nonlinear Systems With Unknown Control Directions; *TSMC March 2021 1945-1953*

Xia, J., see Shen, H., *TSMC Sept. 2021 5535-5546*

Xia, J., see Li, Y., *TSMC Oct. 2021 6564-6575*

Xia, J., see Sun, W., *TSMC Oct. 2021 6555-6563*

Xia, J., see Yan, Z., *TSMC Nov. 2021 6712-6722*

Xia, J., see Zhuang, G., *TSMC Nov. 2021 6808-6818*

Xia, L., see Li, Q., *TSMC Nov. 2021 6819-6829*

Xia, X., see He, G., *TSMC July 2021 4201-4216*

Xia, X., Zhang, T., Fang, Y., and Kang, G., Adaptive Quantized Control of Output Feedback Nonlinear Systems With Input Unmodeled Dynamics Based on Backstepping and Small-Gain Method; *TSMC Sept. 2021 5686-5697*

Xia, Y., see Yang, H., *TSMC Jan. 2021 601-609*

Xia, Y., see Yang, H., *TSMC Feb. 2021 1345-1353*

Xia, Y., see Liu, X., *TSMC May 2021 3103-3110*

Xia, Y., see Yu, D., *TSMC Aug. 2021 5165-5173*

Xia, Y., see Zhang, J., *TSMC Nov. 2021 6606-6613*

Xia, Y., see Yuan, H., *TSMC Nov. 2021 6926-6937*

Xia, Y., Su, S., Su, H., Zhang, X., Luo, W., and Yang, W., Detection of Data Integrity Attacks in Distributed State Estimation; *TSMC Dec. 2021 7735-7744*

Xiang, B., see Liu, Q., *TSMC Aug. 2021 4639-4649*

Xiang, B., Chen, B., and Yu, L., Distributed Fusion Estimation for Unstable Systems With Quantized Innovations; *TSMC Oct. 2021 6381-6387*

Xiang, F., Huaimin, W., and Peichang, S., Proof of Previous Transactions (PoPT): An Efficient Approach to Consensus for JCLedger; *TSMC April 2021 2415-2424*

Xiang, W., see Li, Y., *TSMC Oct. 2021 6564-6575*

Xiang, Y., see Wu, Z., *TSMC July 2021 4433-4442*

Xiang, Y., see Yang, L., *TSMC Oct. 2021 5977-5991*

Xiang, Z., see Li, S., *TSMC Feb. 2021 1075-1084*

Xiang, Z., see Li, S., *TSMC Sept. 2021 5437-5445*

Xiao, B., Cao, L., and Ran, D., Attitude Exponential Stabilization Control of Rigid Bodies via Disturbance Observer; *TSMC May 2021 2751-2759*

Xiao, F., see Wei, B., *TSMC Feb. 2021 1365-1370*

Xiao, F., see Liu, Z., *TSMC May 2021 3193-3204*

Xiao, F., A Distance Measure for Intuitionistic Fuzzy Sets and Its Application to Pattern Classification Problems; *TSMC June 2021 3980-3992*

Xiao, G., see Zhao, D., *TSMC Dec. 2021 7823-7837*

Xiao, J., see Wang, R., *TSMC April 2021 2258-2268*

Xiao, J., see Lin, W., *TSMC April 2021 2355-2369*

Xiao, L., Zhang, Y., Dai, J., Li, J., and Li, W., New Noise-Tolerant ZNN Models With Predefined-Time Convergence for Time-Variant Sylvester Equation Solving; *TSMC June 2021 3629-3640*

Xiao, L., Dai, J., Jin, L., Li, W., Li, S., and Hou, J., A Noise-Enduring and Finite-Time Zeroing Neural Network for Equality-Constrained Time-Varying Nonlinear Optimization; *TSMC Aug. 2021 4729-4740*

Xiao, M., Tao, B., Zheng, W.X., and Jiang, G., Fractional-Order PID Controller Synthesis for Bifurcation of Fractional-Order Small-World Networks; *TSMC July 2021 4334-4346*

Xiao, X., Xiong, N.N., Lai, J., Wang, C., Sun, Z., and Yan, J., A Local Consensus Index Scheme for Random-Valued Impulse Noise Detection Systems; *TSMC June 2021 3412-3428*

Xiao, X., see Pang, X., *TSMC Nov. 2021 6911-6925*

Xiao, Z., Zhang, L., Fu, X., Zhang, W., Zhou, J.T., and Goh, R.S.M., Concurrent Processing Cluster Design to Empower Simultaneous Prediction for Hundreds of Vessels' Trajectories in Near Real-Time; *TSMC March 2021 1830-1843*

Xie, G., Sun, L., Wen, T., Hei, X., and Qian, F., Adaptive Transition Probability Matrix-Based Parallel IMM Algorithm; *TSMC May 2021 2980-2989*

Xie, J., see Zhang, Z., *TSMC May 2021 3270-3281*

Xie, K., Cai, Q., Zhang, Z., and Fu, M., Distributed Algorithms for Average Consensus of Input Data With Fast Convergence; *TSMC May 2021 2653-2664*

Xie, L., see Li, H., *TSMC July 2021 4453-4465*

Xie, L., see Fang, X., *TSMC Nov. 2021 6830-6841*

Xie, M., see Wu, Z., *TSMC Dec. 2021 7530-7541*

Xie, R., see Guo, C., *TSMC Aug. 2021 5189-5197*

Xie, S., see Wu, Z., *TSMC March 2021 1590-1600*

Xie, S., see Wang, Y., *TSMC Nov. 2021 6691-6700*

Xie, X., see Yang, Y., *TSMC Jan. 2021 588-600*

Xie, X., see Wu, Y., *TSMC Feb. 2021 1192-1202*

Xie, X., see Xu, M., *TSMC March 2021 1567-1581*

Xie, X., see Hu, S., *TSMC March 2021 1392-1403*

Xie, X., see Ma, D., *TSMC April 2021 2173-2186*

Xie, X., see Zhang, K., *TSMC June 2021 3781-3795*

Xie, X., see Zhang, Z., *TSMC July 2021 4479-4491*

Xie, X., see Guo, C., *TSMC Aug. 2021 5189-5197*

Xie, X., see Liu, J.J.R., *TSMC Oct. 2021 6207-6217*

Xie, X., see Gu, Z., *TSMC Oct. 2021 6197-6206*

Xie, X., see Chu, H., *TSMC Oct. 2021 6062-6073*

Xie, X., Guo, C., and Cui, R., Removing Feasibility Conditions on Tracking Control of Full-State Constrained Nonlinear Systems With Time-Varying Powers; *TSMC Oct. 2021 6535-6543*

Xie, Y., see Liu, X., *TSMC Feb. 2021 965-974*

Xin, B., see Wang, Q., *TSMC July 2021 4588-4598*

Xin, L., Yuan, Y., Zhou, M., Liu, Z., and Shang, M., Non-Negative Latent Factor Model Based on β -Divergence for Recommender Systems; *TSMC Aug. 2021 4612-4623*

Xin, X., see Chen, L., *TSMC June 2021 3599-3607*

Xing, K., see Wang, X., *TSMC Oct. 2021 6122-6133*

Xing, K., see Feng, Y., *TSMC Dec. 2021 7403-7412*

Xing, L., see Chen, H., *TSMC March 2021 1507-1522*

Xing, L., see Chen, B., *TSMC June 2021 4007-4012*

Xing, L., see Gao, K., *TSMC Aug. 2021 5116-5128*

Xing, W., see Li, L., *TSMC May 2021 3304-3316*

Xing, X., see Zhang, T., *TSMC Feb. 2021 1004-1014*

Xing, X., and Liu, J., Vibration and Position Control of Overhead Crane With Three-Dimensional Variable Length Cable Subject to Input Amplitude and Rate Constraints; *TSMC July 2021 4127-4138*

Xing, Y., see Na, J., *TSMC Feb. 2021 731-741*

Xing, Z., see Yu, D., *TSMC Aug. 2021 5165-5173*

Xiong, J., see Wu, Z., *TSMC Dec. 2021 7530-7541*

Xiong, K., see Wang, S., *TSMC April 2021 2512-2524*

Xiong, K., see Li, W., *TSMC Oct. 2021 6599-6604*

Xiong, L., see Wu, G., *TSMC Aug. 2021 4825-4835*

Xiong, L., Xiong, N., Wang, C., Yu, X., and Shuai, M., An Efficient Lightweight Authentication Scheme With Adaptive Resilience of Asynchronization Attacks for Wireless Sensor Networks; *TSMC Sept. 2021 5626-5638*

Xiong, N., see Chen, Y., *TSMC June 2021 3939-3953*

Xiong, N., Wu, M., Leung, V.C.M., and Yang, L.T., The Effective Cooperative Diffusion Strategies With Adaptation Ability by Learning Across Adaptive Network-Wide Systems; *TSMC July 2021 4112-4126*

Xiong, N., see Wu, X., *TSMC Aug. 2021 4693-4705*

Xiong, N., see Xiong, L., *TSMC Sept. 2021 5626-5638*

Xiong, N.N., see Xiao, X., *TSMC June 2021 3412-3428*

Xiong, N.N., see Yang, L., *TSMC July 2021 4505-4519*

Xiong, N.N., see He, G., *TSMC July 2021 4201-4216*

Xiong, S., see Chen, M., *TSMC March 2021 1414-1423*

Xiong, Y., see Liu, H., *TSMC Aug. 2021 5261-5271*

Xu, B., Wang, X., and Shi, Z., Robust Adaptive Neural Control of Nonminimum Phase Hypersonic Vehicle Model; *TSMC Feb. 2021 1107-1115*

Xu, B., see Zhang, R., *TSMC Dec. 2021 7764-7775*

- Xu, C.**, Tong, D., Chen, Q., Zhou, W., and Shi, P., Exponential Stability of Markovian Jumping Systems via Adaptive Sliding Mode Control; *TSMC Feb. 2021 954-964*
- Xu, D.**, see Liu, H., *TSMC Aug. 2021 5261-5271*
- Xu, D.**, see Kong, G., *TSMC Nov. 2021 7131-7142*
- Xu, H.**, Li, X., Ruiz, R., and Zhu, H., Group Scheduling With Nonperiodical Maintenance and Deteriorating Effects; *TSMC May 2021 2860-2872*
- Xu, H.**, see Zhao, S., *TSMC June 2021 3911-3925*
- Xu, H.**, see Qu, Y., *TSMC July 2021 4183-4192*
- Xu, H.**, see Yu, W., *TSMC Sept. 2021 5905-5917*
- Xu, J.**, Yu, X., and Qiao, J., Hybrid Disturbance Observer-Based Anti-Disturbance Composite Control With Applications to Mars Landing Mission; *TSMC May 2021 2885-2893*
- Xu, J.**, see Liu, D., *TSMC June 2021 3759-3770*
- Xu, J.**, see Wu, Z., *TSMC Nov. 2021 7164-7176*
- Xu, L.**, Wei, J., Choi, T., and Wang, W., Managing Online Channel and Optimization in Supply Chain Systems With Different Channel Leaderships; *TSMC Nov. 2021 7177-7190*
- Xu, L.**, see Zhao, D., *TSMC Dec. 2021 7823-7837*
- Xu, M.**, Xie, X., Lv, P., Niu, J., Wang, H., Li, C., Zhu, R., Deng, Z., and Zhou, B., Crowd Behavior Simulation With Emotional Contagion in Unexpected Multihazard Situations; *TSMC March 2021 1567-1581*
- Xu, N.**, see Ma, L., *TSMC Nov. 2021 7051-7062*
- Xu, N.**, see Han, X., *TSMC Dec. 2021 7850-7859*
- Xu, S.**, see Shi, S., *TSMC March 2021 1869-1880*
- Xu, S.**, Cao, J., Liu, Q., and Rutkowski, L., Optimal Control on Finite-Time Consensus of the Leader-Following Stochastic Multiagent System With Heuristic Method; *TSMC June 2021 3617-3628*
- Xu, S.**, see Li, F., *TSMC Sept. 2021 5752-5761*
- Xu, S.**, see Ma, J., *TSMC Sept. 2021 5503-5510*
- Xu, S.**, see Shi, S., *TSMC Sept. 2021 5357-5366*
- Xu, S.**, see Ye, M., *TSMC Dec. 2021 7413-7422*
- Xu, W.**, Yang, S., and Cao, J., Fully Distributed Self-Triggered Control for Second-Order Consensus of Multiagent Systems; *TSMC June 2021 3541-3551*
- Xu, X.**, see Liu, H., *TSMC Feb. 2021 786-796*
- Xu, X.**, see Zhang, T., *TSMC Feb. 2021 1004-1014*
- Xu, X.**, see Liu, J., *TSMC June 2021 3664-3677*
- Xu, X.**, see Chen, J., *TSMC June 2021 3699-3712*
- Xu, X.**, see Liu, J., *TSMC Nov. 2021 6962-6975*
- Xu, Y.**, Fang, M., Shi, P., Pan, Y., and Ahn, C.K., Multileader Multiagent Systems Containment Control With Event-Triggering; *TSMC March 2021 1642-1651*
- Xu, Y.**, Yang, H., and Jiang, B., Fault-Tolerant Control of Multilayer Interconnected Nonlinear Systems: An Inclusion Principle Approach; *TSMC April 2021 2403-2414*
- Xu, Y.**, Li, M., Cabrerizo, F.J., Chiclana, F., and Herrera-Viedma, E., Algorithms to Detect and Rectify Multiplicative and Ordinal Inconsistencies of Fuzzy Preference Relations; *TSMC June 2021 3498-3511*
- Xu, Y.**, Huang, Z., Rao, H., Lu, R., and Huang, T., Quasi-Synchronization for Periodic Neural Networks With Asynchronous Target and Constrained Information; *TSMC July 2021 4379-4388*
- Xu, Y.**, Lu, Y., Lu, G., Li, J., and Zhang, D., Fast Pore Comparison for High Resolution Fingerprint Images Based on Multiple Co-Occurrence Descriptors and Local Topology Similarities; *TSMC Sept. 2021 5721-5731*
- Xu, Y.**, see Pang, X., *TSMC Nov. 2021 6911-6925*
- Xu, Y.**, see Wu, N., *TSMC Dec. 2021 7889-7902*
- Xu, Y.**, Yang, L., Wang, Z., Rao, H., and Lu, R., State Estimation for Networked Systems With Markov Driven Transmission and Buffer Constraint; *TSMC Dec. 2021 7727-7734*
- Xuan, Q.**, see Chen, J., *TSMC June 2021 3699-3712*
- Xue, A.**, see Li, Z., *TSMC July 2021 4149-4159*
- Xue, S.**, see Liu, D., *TSMC Jan. 2021 142-160*
- Xue, T.**, see Zhong, M., *TSMC July 2021 4251-4261*
- Xue, X.**, see Jiang, X., *TSMC Sept. 2021 5809-5818*
- Xue, Y.**, see Yang, Y., *TSMC Oct. 2021 5992-6002*
- Xue, Y.**, see Hu, S., *TSMC Oct. 2021 6050-6061*
- Xue, Z.**, see Liu, J., *TSMC Aug. 2021 4782-4792*
- Y**
- Yan, B.**, see Shi, P., *TSMC Jan. 2021 161-175*
- Yan, C.**, see Feng, Y., *TSMC Dec. 2021 7403-7412*
- Yan, H.**, Zhang, H., Zhan, X., Wang, Y., Chen, S., and Yang, F., Event-Triggered Sliding Mode Control of Switched Neural Networks With Mode-Dependent Average Dwell Time; *TSMC Feb. 2021 1233-1243*
- Yan, H.**, see Huang, C., *TSMC Aug. 2021 4804-4813*
- Yan, H.**, see Tian, Y., *TSMC Nov. 2021 6639-6649*
- Yan, H.**, see Zhang, Q., *TSMC Dec. 2021 7510-7516*
- Yan, J.**, see Yang, X., *TSMC Feb. 2021 1054-1063*
- Yan, J.**, see Xiao, X., *TSMC June 2021 3412-3428*
- Yan, J.**, see Yang, X., *TSMC June 2021 3370-3379*
- Yan, J.**, see Li, Z., *TSMC Nov. 2021 6986-6993*
- Yan, R.**, see Gao, F., *TSMC March 2021 1404-1413*
- Yan, T.**, see Wang, C., *TSMC Aug. 2021 5230-5243*
- Yan, X.**, see Fan, Q., *TSMC Aug. 2021 4836-4847*
- Yan, X.**, see Gao, K., *TSMC Aug. 2021 5116-5128*
- Yan, Z.**, Lai, X., Meng, Q., and Wu, M., A Novel Robust Control Method for Motion Control of Uncertain Single-Link Flexible-Joint Manipulator; *TSMC March 2021 1671-1678*
- Yan, Z.**, Huang, X., Fan, Y., Xia, J., and Shen, H., Threshold-Function-Dependent Quasi-Synchronization of Delayed Memristive Neural Networks via Hybrid Event-Triggered Control; *TSMC Nov. 2021 6712-6722*
- Yan, Z.**, see Wen, S., *TSMC Nov. 2021 7250-7259*
- Yang, B.**, and Hu, H., Implementation of Generalized Mutual Exclusion Constraints Using Critical Places and Marking Estimation; *TSMC Aug. 2021 5067-5079*
- Yang, B.**, and Hu, H., Secure Conflicts Avoidance in Multidomain Environments: A Distributed Approach; *TSMC Sept. 2021 5478-5489*
- Yang, B.**, Hao, M., Wang, R., Zhao, X., and Zong, G., Exponential Stability of Delayed Generalized Neural Networks With Intermittent Large-Delay Periods; *TSMC Dec. 2021 7392-7402*
- Yang, C.**, Huang, T., Zhang, A., Qiu, J., Cao, J., and Alsaadi, F.E., Output Consensus of Multiagent Systems Based on PDEs With Input Constraint: A Boundary Control Approach; *TSMC Jan. 2021 370-377*
- Yang, C.**, see Kong, L., *TSMC March 2021 1735-1746*
- Yang, C.**, see Wei, L., *TSMC April 2021 2611-2623*
- Yang, C.**, see Zhang, Q., *TSMC May 2021 2640-2652*
- Yang, C.**, Peng, G., Cheng, L., Na, J., and Li, Z., Force Sensorless Admittance Control for Teleoperation of Uncertain Robot Manipulator Using Neural Networks; *TSMC May 2021 3282-3292*
- Yang, C.**, see Han, H., *TSMC June 2021 3464-3476*
- Yang, C.**, see Na, J., *TSMC June 2021 3832-3843*
- Yang, C.**, see Du, C., *TSMC Oct. 2021 6003-6014*
- Yang, C.**, see Wang, J., *TSMC Dec. 2021 7579-7586*
- Yang, C.**, see He, W., *TSMC Dec. 2021 7326-7336*
- Yang, C.**, see Wang, M., *TSMC Dec. 2021 7613-7621*
- Yang, D.**, see Niu, B., *TSMC July 2021 4566-4578*
- Yang, F.**, see Yan, H., *TSMC Feb. 2021 1233-1243*
- Yang, G.**, see Liu, Y., *TSMC Feb. 2021 1046-1053*
- Yang, G.**, see Li, Y., *TSMC June 2021 3401-3411*
- Yang, G.**, see Pan, Y., *TSMC Aug. 2021 4959-4968*
- Yang, G.**, see Liu, D., *TSMC Oct. 2021 6271-6279*
- Yang, G.**, see Shi, C., *TSMC Oct. 2021 6587-6598*
- Yang, G.**, see Zhang, J., *TSMC Oct. 2021 6576-6586*
- Yang, H.**, Cheng, L., Zhang, J., and Xia, Y., Leader-Follower Trajectory Control for Quadrotors via Tracking Differentiators and Disturbance Observers; *TSMC Jan. 2021 601-609*
- Yang, H.**, Ju, S., Xia, Y., and Zhang, J., Predictive Cloud Control for Networked Multiagent Systems With Quantized Signals Under DoS Attacks; *TSMC Feb. 2021 1345-1353*
- Yang, H.**, see Wang, X., *TSMC April 2021 2561-2570*
- Yang, H.**, see Xu, Y., *TSMC April 2021 2403-2414*
- Yang, H.**, Yin, S., and Kaynak, O., Neural Network-Based Adaptive Fault-Tolerant Control for Markovian Jump Systems With Nonlinearity and Actuator Faults; *TSMC June 2021 3687-3698*

- Yang, H., see Feng, Y., *TSMC Sept. 2021* 5698-5707
- Yang, H., see Yuan, H., *TSMC Nov. 2021* 6926-6937
- Yang, J., see Sun, J., *TSMC May 2021* 3148-3158
- Yang, J., see Na, J., *TSMC June 2021* 3832-3843
- Yang, J., see Cai, B., *TSMC July 2021* 4016-4027
- Yang, J., see Tang, S., *TSMC Aug. 2021* 4895-4910
- Yang, J., see Zhou, Q., *TSMC Oct. 2021* 6369-6380
- Yang, J., see Kong, G., *TSMC Nov. 2021* 7131-7142
- Yang, K., see Li, J., *TSMC Feb. 2021* 696-704
- Yang, L., Liu, J., Wang, Y., and Martinez, L., A Micro-Extended Belief Rule-Based System for Big Data Multiclass Classification Problems; *TSMC Jan. 2021* 420-440
- Yang, L., Wang, J., Tang, Z., and Xiong, N.N., Using Conditional Random Fields to Optimize a Self-Adaptive Bell-LaPadula Model in Control Systems; *TSMC July 2021* 4505-4519
- Yang, L., Song, S., Li, S., Chen, Y., and Huang, G., Graph Embedding-Based Dimension Reduction With Extreme Learning Machine ; *TSMC July 2021* 4262-4273
- Yang, L., Li, P., Yang, X., Xiang, Y., Jiang, F., and Zhou, W., Effective Quarantine and Recovery Scheme Against Advanced Persistent Threat; *TSMC Oct. 2021* 5977-5991
- Yang, L., Yang, Y., Mgaya, G.B., Zhang, B., Chen, L., and Liu, H., Novel Fast Networking Approaches Mining Underlying Structures From Investment Big Data; *TSMC Oct. 2021* 6319-6329
- Yang, L., see Xu, Y., *TSMC Dec. 2021* 7727-7734
- Yang, L., see Sun, H., *TSMC Dec. 2021* 7663-7674
- Yang, L.T., see Xiong, N., *TSMC July 2021* 4112-4126
- Yang, P., see Zhang, S., *TSMC July 2021* 4091-4101
- Yang, Q., see He, X., *TSMC Aug. 2021* 4706-4715
- Yang, Q., see Zhang, L., *TSMC Oct. 2021* 6457-6465
- Yang, R., Li, L., and Shi, P., Dissipativity-Based Two-Dimensional Control and Filtering for a Class of Switched Systems; *TSMC May 2021* 2737-2750
- Yang, S., see Jiang, B., *TSMC March 2021* 1549-1558
- Yang, S., see Zhang, Z., *TSMC May 2021* 3270-3281
- Yang, S., see Xu, W., *TSMC June 2021* 3541-3551
- Yang, S., Yu, J., Hu, C., and Jiang, H., Finite-Time Synchronization of Memristive Neural Networks With Fractional-Order; *TSMC June 2021* 3739-3750
- Yang, S.X., see Tian, Y., *TSMC Nov. 2021* 6639-6649
- Yang, T., see Zhang, R., *TSMC Dec. 2021* 7764-7775
- Yang, W., Hui, C., Sun, D., Sun, X., and Liao, Q., Clustering Through Probability Distribution Analysis Along Eigenpaths; *TSMC Feb. 2021* 875-884
- Yang, W., see Xia, Y., *TSMC Dec. 2021* 7735-7744
- Yang, X., and Zheng, X., Gradient Descent Algorithm-Based Adaptive NN Control Design for an Induction Motor; *TSMC Feb. 2021* 1027-1034
- Yang, X., Yan, J., Hua, C., and Guan, X., Trajectory Tracking Control of Autonomous Underwater Vehicle With Unknown Parameters and External Disturbances; *TSMC Feb. 2021* 1054-1063
- Yang, X., He, H., Li, J., and Zhang, Y., Toward Optimal Risk-Averse Configuration for HESS With CGANs-Based PV Scenario Generation; *TSMC March 2021* 1779-1793
- Yang, X., Chen, Z., Hettiarachchi, N., Yan, J., and Liu, H., A Wearable Ultrasound System for Sensing Muscular Morphological Deformations; *TSMC June 2021* 3370-3379
- Yang, X., see Liu, X., *TSMC Aug. 2021* 5254-5260
- Yang, X., and Zhu, Q., Stabilization of Stochastic Retarded Systems Based on Sampled-Data Feedback Control; *TSMC Sept. 2021* 5895-5904
- Yang, X., see Qi, W., *TSMC Sept. 2021* 5446-5455
- Yang, X., see Yang, L., *TSMC Oct. 2021* 5977-5991
- Yang, X., see Yu, J., *TSMC Oct. 2021* 6523-6534
- Yang, X., see Wu, Z., *TSMC Nov. 2021* 7164-7176
- Yang, Y., Tan, J., Yue, D., Xie, X., and Yue, W., Observer-Based Containment Control for a Class of Nonlinear Multiagent Systems With Uncertainties; *TSMC Jan. 2021* 588-600
- Yang, Y., see Wen, S., *TSMC March 2021* 1794-1804
- Yang, Y., see Li, Y., *TSMC March 2021* 1966-1980
- Yang, Y., see Qu, M., *TSMC April 2021* 2145-2158
- Yang, Y., see Cui, L., *TSMC June 2021* 3429-3439
- Yang, Y., see Li, R., *TSMC Aug. 2021* 5046-5055
- Yang, Y., Gao, Z., Li, Y., Cai, Q., Marwan, N., and Kurths, J., A Complex Network-Based Broad Learning System for Detecting Driver Fatigue From EEG Signals; *TSMC Sept. 2021* 5800-5808
- Yang, Y., Huang, J., Su, X., and Wang, K., Event-Triggered Adaptive Output Feedback Control of Multivariable Systems With Nonsmooth Actuator Nonlinearities; *TSMC Sept. 2021* 5557-5566
- Yang, Y., Tan, J., Yue, D., Tian, Y., and Xue, Y., Output-Based Containment Control for Uncertain Nonaffine Nonlinear Multiagent Systems; *TSMC Oct. 2021* 5992-6002
- Yang, Y., see Yang, L., *TSMC Oct. 2021* 6319-6329
- Yang, Y., see Yu, J., *TSMC Oct. 2021* 6523-6534
- Yang, Y., Vamvoudakis, K.G., Modares, H., Yin, Y., and Wunsch, D.C., Hamiltonian-Driven Hybrid Adaptive Dynamic Programming; *TSMC Oct. 2021* 6423-6434
- Yang, Y., see Wen, S., *TSMC Nov. 2021* 7250-7259
- Yang, Z., see Li, Y., *TSMC March 2021* 1966-1980
- Yao, D., see Lin, W., *TSMC Dec. 2021* 7870-7881
- Yao, L., see Yi, J., *TSMC Aug. 2021* 4980-4992
- Ye, B., see Rahman, I.U., *TSMC Nov. 2021* 6626-6638
- Ye, C., see Gao, H., *TSMC Dec. 2021* 7305-7313
- Ye, D., see Long, Y., *TSMC June 2021* 3477-3487
- Ye, L., Zong, Q., and Tian, B., Output Tracking of Uncertain Nonminimum Phase Systems by Experience Replay ; *TSMC May 2021* 3159-3167
- Ye, M., Wen, G., Xu, S., and Lewis, F.L., Global Social Cost Minimization With Possibly Nonconvex Objective Functions: An Extremum Seeking-Based Approach; *TSMC Dec. 2021* 7413-7422
- Ye, S., see Leng, J., *TSMC Jan. 2021* 237-252
- Ye, W., see Lu, Q., *TSMC Nov. 2021* 6650-6659
- Ye, Y., see Su, H., *TSMC April 2021* 2501-2511
- Yi, J., Wu, L., Zhou, W., He, H., and Yao, L., A Sparse Dimensionality Reduction Approach Based on False Nearest Neighbors for Nonlinear Fault Detection; *TSMC Aug. 2021* 4980-4992
- Yi, J., see Pu, Z., *TSMC Nov. 2021* 6757-6767
- Yin, C., see Zhang, Y., *TSMC June 2021* 3796-3807
- Yin, G., see Zhuang, J., *TSMC Sept. 2021* 5392-5404
- Yin, L., Wang, H., Guo, L., and Zhang, H., Data-Driven Pareto-DE-Based Intelligent Optimal Operational Control for Stochastic Processes; *TSMC July 2021* 4443-4452
- Yin, M., see Zhang, H., *TSMC April 2021* 2080-2090
- Yin, S., see Yang, H., *TSMC June 2021* 3687-3698
- Yin, T., see Liu, J., *TSMC Oct. 2021* 6544-6554
- Yin, Y., Liu, J., Luo, W., Wu, L., Vazquez, S., Leon, J.I., and Franquelo, L.G., Adaptive Control for Three-Phase Power Converters With Disturbance Rejection Performance ; *TSMC Feb. 2021* 674-685
- Yin, Y., see Yang, Y., *TSMC Oct. 2021* 6423-6434
- Yong, J., see Cheng, S., *TSMC Nov. 2021* 6901-6910
- Yoo, J., and Johansson, K.H., Event-Triggered Model Predictive Control With a Statistical Learning; *TSMC April 2021* 2571-2581
- Yoo, S.J., see Choi, Y.H., *TSMC March 2021* 1766-1778
- Yoo, S.J., see Choi, Y.H., *TSMC Sept. 2021* 5490-5502
- You, K., see Li, Z., *TSMC July 2021* 4149-4159
- You, X., see Issa, S., *TSMC Dec. 2021* 7382-7391
- Yu, C., see Sun, Z., *TSMC July 2021* 4308-4320
- Yu, D., Xia, Y., Li, L., Xing, Z., and Zhu, C., Distributed Covariance Intersection Fusion Estimation With Delayed Measurements and Unknown Inputs; *TSMC Aug. 2021* 5165-5173
- Yu, G., see Zhang, K., *TSMC Nov. 2021* 7191-7200
- Yu, H., see Wang, Q., *TSMC Jan. 2021* 412-419
- Yu, H., see Lai, Z., *TSMC Feb. 2021* 797-808
- Yu, H., see Liu, R., *TSMC Dec. 2021* 7622-7632
- Yu, J., see Zhao, L., *TSMC Feb. 2021* 1278-1287
- Yu, J., see Fei, Z., *TSMC March 2021* 1630-1641
- Yu, J., see Pang, L., *TSMC April 2021* 2342-2354
- Yu, J., see Wang, L., *TSMC April 2021* 2536-2549
- Yu, J., see Wang, J., *TSMC May 2021* 2904-2915
- Yu, J., see Yang, S., *TSMC June 2021* 3739-3750

- Yu, J.**, see Liu, Q., *TSMC July 2021 4400-4408*
- Yu, J.**, see Hou, T., *TSMC July 2021 4297-4307*
- Yu, J.**, see Liu, J., *TSMC Aug. 2021 4782-4792*
- Yu, J.**, see Du, S., *TSMC Aug. 2021 4670-4680*
- Yu, J.**, see Wang, J., *TSMC Sept. 2021 5466-5477*
- Yu, J.**, see Kong, S., *TSMC Oct. 2021 6358-6368*
- Yu, J.**, Wu, Z., Yang, X., Yang, Y., and Zhang, P., Underwater Target Tracking Control of an Untethered Robotic Fish With a Camera Stabilizer; *TSMC Oct. 2021 6523-6534*
- Yu, L.**, see Wang, L., *TSMC March 2021 1559-1566*
- Yu, L.**, see Zhou, W., *TSMC June 2021 3641-3649*
- Yu, L.**, see Xiang, B., *TSMC Oct. 2021 6381-6387*
- Yu, L.**, see Zhang, D., *TSMC Nov. 2021 7269-7278*
- Yu, M.**, see Ping, Z., *TSMC June 2021 3751-3758*
- Yu, S.**, see Jin, B., *TSMC May 2021 3068-3079*
- Yu, T.**, see Kim, W., *TSMC Dec. 2021 7282-7294*
- Yu, W.**, see Zhu, Y., *TSMC Feb. 2021 1097-1106*
- Yu, W.**, see Lv, M., *TSMC Feb. 2021 1035-1045*
- Yu, W.**, see Wang, P., *TSMC Feb. 2021 1116-1127*
- Yu, W.**, see Ji, J., *TSMC April 2021 2054-2067*
- Yu, W.**, see Lv, M., *TSMC Aug. 2021 4936-4942*
- Yu, W.**, Xu, H., Han, X., Chen, Y., and Zhu, M., Fault-Tolerant Control for Dynamic Positioning Vessel With Thruster Faults Based on the Neural Modified Extended State Observer; *TSMC Sept. 2021 5905-5917*
- Yu, W.**, see Wen, G., *TSMC Oct. 2021 6342-6357*
- Yu, W.**, and de la Rosa, E., Neural Modeling With Guaranteed Input–Output Probability Distributions ; *TSMC Nov. 2021 6660-6668*
- Yu, W.**, see Li, Z., *TSMC Nov. 2021 6986-6993*
- Yu, X.**, see Wang, P., *TSMC Feb. 2021 1116-1127*
- Yu, X.**, see Xu, J., *TSMC May 2021 2885-2893*
- Yu, X.**, see Hu, J., *TSMC May 2021 3217-3228*
- Yu, X.**, Ma, J., Ding, N., and Zhang, A., Cooperative Target Enclosing Control of Multiple Mobile Robots Subject to Input Disturbances; *TSMC June 2021 3440-3449*
- Yu, X.**, see Chen, L., *TSMC June 2021 3599-3607*
- Yu, X.**, see Qiao, J., *TSMC July 2021 4274-4284*
- Yu, X.**, see Xiong, L., *TSMC Sept. 2021 5626-5638*
- Yu, X.**, see Chen, L., *TSMC Sept. 2021 5405-5413*
- Yu, X.**, see Wan, Y., *TSMC Oct. 2021 6183-6196*
- Yu, X.**, see Wen, G., *TSMC Oct. 2021 6342-6357*
- Yu, X.**, see Zhu, W., *TSMC Nov. 2021 6768-6778*
- Yu, X.**, He, W., Li, H., and Sun, J., Adaptive Fuzzy Full-State and Output-Feedback Control for Uncertain Robots With Output Constraint; *TSMC Nov. 2021 6994-7007*
- Yu, Y.**, see Wang, F., *TSMC Feb. 2021 1313-1321*
- Yu, Y.**, see Gao, S., *TSMC June 2021 3954-3967*
- Yu, Y.**, see Mo, L., *TSMC Oct. 2021 6404-6413*
- Yu, Z.**, see Chen, Y., *TSMC June 2021 3939-3953*
- Yuan, C.**, see Liu, Z., *TSMC Jan. 2021 339-353*
- Yuan, H.**, see Jia, Y., *TSMC Jan. 2021 634-649*
- Yuan, H.**, see Luo, X., *TSMC Feb. 2021 916-926*
- Yuan, H.**, see Song, A., *TSMC Feb. 2021 927-942*
- Yuan, H.**, Xia, Y., and Yang, H., Resilient State Estimation of Cyber-Physical System With Multichannel Transmission Under DoS Attack; *TSMC Nov. 2021 6926-6937*
- Yuan, J.**, Zhang, S., Sun, Q., Liu, G., and Cai, J., Laser-Based Intersection-Aware Human Following With a Mobile Robot in Indoor Environments; *TSMC Jan. 2021 354-369*
- Yuan, J.**, Cai, J., Zhang, X., Sun, Q., Sun, F., and Zhu, W., Fusing Skeleton Recognition With Face-TLD for Human Following of Mobile Service Robots; *TSMC May 2021 2963-2979*
- Yuan, J.**, Zhu, W., Dong, X., Sun, F., Zhang, X., Sun, Q., and Huang, Y., A Novel Approach to Image-Sequence-Based Mobile Robot Place Recognition; *TSMC Sept. 2021 5377-5391*
- Yuan, L.**, see Wang, J., *TSMC April 2021 2284-2298*
- Yuan, S.**, see Cai, B., *TSMC July 2021 4016-4027*
- Yuan, W.**, Li, Z., and Su, C., Multisensor-Based Navigation and Control of a Mobile Service Robot; *TSMC April 2021 2624-2634*
- Yuan, W.**, Jiang, Y., Li, H., and Cai, M., A Lightweight On-Device Detection Method for Android Malware; *TSMC Sept. 2021 5600-5611*
- Yuan, Y.**, see Xin, L., *TSMC Aug. 2021 4612-4623*
- Yuan, Z.**, see Lin, P., *TSMC Dec. 2021 7882-7888*
- Yue, D.**, see Yang, Y., *TSMC Jan. 2021 588-600*
- Yue, D.**, see Liu, J., *TSMC Feb. 2021 943-953*
- Yue, D.**, see Hu, S., *TSMC March 2021 1392-1403*
- Yue, D.**, see Sun, H., *TSMC April 2021 2113-2122*
- Yue, D.**, see Zhang, H., *TSMC April 2021 2080-2090*
- Yue, D.**, see Zhang, Z., *TSMC April 2021 2101-2112*
- Yue, D.**, see Chu, H., *TSMC April 2021 2391-2402*
- Yue, D.**, see Zhang, H., *TSMC Aug. 2021 4741-4750*
- Yue, D.**, see Yang, Y., *TSMC Oct. 2021 5992-6002*
- Yue, D.**, see Hu, S., *TSMC Oct. 2021 6050-6061*
- Yue, D.**, see Gu, Z., *TSMC Oct. 2021 6197-6206*
- Yue, D.**, see Chu, H., *TSMC Oct. 2021 6062-6073*
- Yue, D.**, see Liu, J., *TSMC Oct. 2021 6544-6554*
- Yue, D.**, see Chu, H., *TSMC Nov. 2021 6938-6944*
- Yue, H.**, see Zhou, J., *TSMC Jan. 2021 378-390*
- Yue, M.**, see Ning, Y., *TSMC May 2021 3293-3303*
- Yue, W.**, see Yang, Y., *TSMC Jan. 2021 588-600*
- Yue, W.**, see Zhang, H., *TSMC April 2021 2080-2090*
- Yuksel, A.C.**, see Haralick, R.M., *TSMC Jan. 2021 22-39*

Z

- Zakarya, M.**, see Rahman, I.U., *TSMC Nov. 2021 6626-6638*
- Zeng, Q.**, Liu, Y., and Liu, L., Adaptive Vehicle Stability Control of Half-Car Active Suspension Systems With Partial Performance Constraints ; *TSMC March 2021 1704-1714*
- Zeng, X.**, see Wang, Q., *TSMC July 2021 4588-4598*
- Zeng, Y.**, see Hou, Y., *TSMC Oct. 2021 5962-5976*
- Zeng, Z.**, see Zhang, F., *TSMC Jan. 2021 521-531*
- Zeng, Z.**, see Liu, H., *TSMC Feb. 2021 786-796*
- Zeng, Z.**, see Wang, L., *TSMC Feb. 2021 905-915*
- Zeng, Z.**, see Wen, S., *TSMC March 2021 1794-1804*
- Zeng, Z.**, see Zhou, Y., *TSMC March 2021 1954-1965*
- Zeng, Z.**, see Zhang, F., *TSMC Sept. 2021 5547-5556*
- Zeng, Z.**, see Su, H., *TSMC Oct. 2021 6503-6512*
- Zha, Q.**, Dong, Y., Zhang, H., Chiclana, F., and Herrera-Viedma, E., A Personalized Feedback Mechanism Based on Bounded Confidence Learning to Support Consensus Reaching in Group Decision Making; *TSMC June 2021 3900-3910*
- Zha, Q.**, see Dong, Y., *TSMC Oct. 2021 6304-6318*
- Zha, X.**, see Wang, X., *TSMC March 2021 1601-1611*
- Zhai, X.**, see Zhang, L., *TSMC May 2021 3205-3216*
- Zhan, X.**, see Yan, H., *TSMC Feb. 2021 1233-1243*
- Zhang, A.**, see Yang, C., *TSMC Jan. 2021 370-377*
- Zhang, A.**, see Yu, X., *TSMC June 2021 3440-3449*
- Zhang, B.**, Jia, Y., and Du, J., Strict Lyapunov Functions for Homogeneous Time-Varying Systems; *TSMC March 2021 1994-2002*
- Zhang, B.**, see Song, S., *TSMC June 2021 3575-3586*
- Zhang, B.**, see Yang, L., *TSMC Oct. 2021 6319-6329*
- Zhang, B.**, see Zhuang, G., *TSMC Nov. 2021 6808-6818*
- Zhang, B.**, see Song, S., *TSMC Nov. 2021 7238-7249*
- Zhang, B.**, see Lin, W., *TSMC Dec. 2021 7870-7881*
- Zhang, C.**, see Tian, G., *TSMC March 2021 1855-1868*
- Zhang, C.**, see Liu, C., *TSMC April 2021 2332-2341*
- Zhang, C.**, see Long, F., *TSMC April 2021 2457-2466*
- Zhang, C.**, see Jiang, J., *TSMC July 2021 4417-4432*
- Zhang, C.**, see Sun, X., *TSMC Oct. 2021 6111-6121*
- Zhang, C.**, see Meng, A., *TSMC Dec. 2021 7707-7718*
- Zhang, D.**, see Zhao, Y., *TSMC Jan. 2021 532-541*

- Zhang, D., and Feng, G., A New Switched System Approach to Leader–Follower Consensus of Heterogeneous Linear Multiagent Systems With DoS Attack; *TSMC Feb. 2021 1258-1266*
- Zhang, D., see Liang, X., *TSMC March 2021 1534-1548*
- Zhang, D., see Chen, J., *TSMC June 2021 3699-3712*
- Zhang, D., see Xu, Y., *TSMC Sept. 2021 5721-5731*
- Zhang, D., see Lu, Q., *TSMC Nov. 2021 6650-6659*
- Zhang, D., Shen, Y., Zhou, S., Dong, X., and Yu, L., Distributed Secure Platoon Control of Connected Vehicles Subject to DoS Attack: Theory and Application; *TSMC Nov. 2021 7269-7278*
- Zhang, F., and Zeng, Z., Multiple ψ -Type Stability of Cohen–Grossberg Neural Networks With Unbounded Time-Varying Delays; *TSMC Jan. 2021 521-531*
- Zhang, F., see Liu, Y., *TSMC Aug. 2021 4883-4894*
- Zhang, F., and Zeng, Z., Asymptotic Stability and Synchronization of Fractional-Order Neural Networks With Unbounded Time-Varying Delays; *TSMC Sept. 2021 5547-5556*
- Zhang, F., see Zhang, J., *TSMC Oct. 2021 5938-5948*
- Zhang, H., see Jia, Y., *TSMC Jan. 2021 634-649*
- Zhang, H., see Ma, H., *TSMC Feb. 2021 1322-1333*
- Zhang, H., see Yan, H., *TSMC Feb. 2021 1233-1243*
- Zhang, H., see Zhou, Y., *TSMC March 2021 1954-1965*
- Zhang, H., see Hao, L., *TSMC March 2021 2012-2026*
- Zhang, H., see Wang, R., *TSMC April 2021 2258-2268*
- Zhang, H., Yue, D., Yue, W., Li, K., and Yin, M., MOEA/D-Based Probabilistic PBI Approach for Risk-Based Optimal Operation of Hybrid Energy System With Intermittent Power Uncertainty; *TSMC April 2021 2080-2090*
- Zhang, H., see Zhang, Z., *TSMC April 2021 2101-2112*
- Zhang, H., see Ma, D., *TSMC April 2021 2173-2186*
- Zhang, H., see Li, K., *TSMC April 2021 2602-2610*
- Zhang, H., Wang, T., and Zhao, Y., Asymptotically Efficient Recursive Identification of FIR Systems With Binary-Valued Observations; *TSMC May 2021 2687-2700*
- Zhang, H., Zhou, X., Lan, X., Li, J., Tian, Z., and Zheng, N., A Real-Time Robotic Grasping Approach With Oriented Anchor Box; *TSMC May 2021 3014-3025*
- Zhang, H., see Wang, Z., *TSMC May 2021 2992-3003*
- Zhang, H., see Hu, J., *TSMC May 2021 3217-3228*
- Zhang, H., see Zha, Q., *TSMC June 2021 3900-3910*
- Zhang, H., see Li, H., *TSMC July 2021 4453-4465*
- Zhang, H., see Yin, L., *TSMC July 2021 4443-4452*
- Zhang, H., see Liu, Q., *TSMC Aug. 2021 4639-4649*
- Zhang, H., see Huang, C., *TSMC Aug. 2021 4804-4813*
- Zhang, H., Park, J.H., Yue, D., and Zhao, W., Nearly Optimal Integral Sliding-Mode Consensus Control for Multiagent Systems With Disturbances; *TSMC Aug. 2021 4741-4750*
- Zhang, H., see Li, Y., *TSMC Oct. 2021 6564-6575*
- Zhang, H., see Dong, Y., *TSMC Oct. 2021 6304-6318*
- Zhang, H., Liu, C., Su, H., and Zhang, K., Echo State Network-Based Decentralized Control of Continuous-Time Nonlinear Large-Scale Interconnected Systems; *TSMC Oct. 2021 6293-6303*
- Zhang, H., see Cai, Y., *TSMC Nov. 2021 6743-6756*
- Zhang, H., see Tian, Y., *TSMC Nov. 2021 6639-6649*
- Zhang, H., see Hu, J., *TSMC Nov. 2021 7063-7074*
- Zhang, H., see Zhang, Q., *TSMC Dec. 2021 7510-7516*
- Zhang, H., see Shen, M., *TSMC Dec. 2021 7633-7643*
- Zhang, H., see Sun, Y., *TSMC Dec. 2021 7801-7812*
- Zhang, H.G., see Wang, Y.Y., *TSMC Aug. 2021 4761-4772*
- Zhang, J., see Jia, Y., *TSMC Jan. 2021 634-649*
- Zhang, J., see Yang, H., *TSMC Jan. 2021 601-609*
- Zhang, J., see Yang, H., *TSMC Feb. 2021 1345-1353*
- Zhang, J., see Hu, Z., *TSMC Feb. 2021 755-764*
- Zhang, J., see Meng, D., *TSMC Feb. 2021 842-852*
- Zhang, J., see Song, A., *TSMC Feb. 2021 927-942*
- Zhang, J., see Xia, J., *TSMC March 2021 1945-1953*
- Zhang, J., see Ji, J., *TSMC April 2021 2054-2067*
- Zhang, J., see Gong, Y., *TSMC May 2021 2712-2725*
- Zhang, J., see Liu, X., *TSMC May 2021 3103-3110*
- Zhang, J., see Chen, J., *TSMC June 2021 3699-3712*
- Zhang, J., see Cheng, Y., *TSMC July 2021 4040-4047*
- Zhang, J., see Zhao, T., *TSMC Aug. 2021 5090-5104*
- Zhang, J., see Liu, Y., *TSMC Sept. 2021 5614-5625*
- Zhang, J., see Lu, H., *TSMC Sept. 2021 5639-5651*
- Zhang, J., Zhang, Z., Su, H., Zou, W., Gong, X., and Zhang, F., Quality Inspection Based on Quadrangular Object Detection for Deep Aperture Component; *TSMC Oct. 2021 5938-5948*
- Zhang, J., and Yang, G., Event-Triggered Prescribed Performance Control for a Class of Unknown Nonlinear Systems; *TSMC Oct. 2021 6576-6586*
- Zhang, J., Zhao, W., Shen, G., and Xia, Y., Disturbance Observer-Based Adaptive Finite-Time Attitude Tracking Control for Rigid Spacecraft; *TSMC Nov. 2021 6606-6613*
- Zhang, J., see Cai, Y., *TSMC Nov. 2021 6743-6756*
- Zhang, J., see Liu, L., *TSMC Nov. 2021 6863-6873*
- Zhang, J.Y., see Wang, Y.Y., *TSMC Aug. 2021 4761-4772*
- Zhang, K., see Zhang, X., *TSMC Feb. 2021 1138-1148*
- Zhang, K., Lv, G., Wu, L., Chen, E., Liu, Q., Wu, H., Xie, X., and Wu, F., Multilevel Image-Enhanced Sentence Representation Net for Natural Language Inference; *TSMC June 2021 3781-3795*
- Zhang, K., see Zhang, H., *TSMC Oct. 2021 6293-6303*
- Zhang, K., Chen, J., Yu, G., Zhang, X., and Li, Z., Visual Trajectory Tracking of Wheeled Mobile Robots With Uncalibrated Camera Extrinsic Parameters; *TSMC Nov. 2021 7191-7200*
- Zhang, L., Lan, J., and Li, X.R., Performance Evaluation of Joint Tracking and Classification; *TSMC Feb. 2021 1149-1163*
- Zhang, L., see Xiao, Z., *TSMC March 2021 1830-1843*
- Zhang, L., Liang, H., Sun, Y., and Ahn, C.K., Adaptive Event-Triggered Fault Detection Scheme for Semi-Markovian Jump Systems With Output Quantization; *TSMC April 2021 2370-2381*
- Zhang, L., Qiao, F., Wang, J., and Zhai, X., Equipment Health Assessment Based on Improved Incremental Support Vector Data Description; *TSMC May 2021 3205-3216*
- Zhang, L., see Han, H., *TSMC June 2021 3464-3476*
- Zhang, L., see Liang, H., *TSMC June 2021 3889-3899*
- Zhang, L., see Cai, B., *TSMC July 2021 4016-4027*
- Zhang, L., Sun, J., and Yang, Q., Distributed Model-Based Event-Triggered Leader–Follower Consensus Control for Linear Continuous-Time Multiagent Systems; *TSMC Oct. 2021 6457-6465*
- Zhang, P., Zhou, M., and Kong, Y., A Double-Blind Anonymous Evaluation-Based Trust Model in Cloud Computing Environments; *TSMC March 2021 1805-1816*
- Zhang, P., see Yu, J., *TSMC Oct. 2021 6523-6534*
- Zhang, P., see Zhang, R., *TSMC Dec. 2021 7764-7775*
- Zhang, Q., see Wang, B., *TSMC Jan. 2021 574-587*
- Zhang, Q., see Sun, X., *TSMC April 2021 2433-2443*
- Zhang, Q., Yang, C., and Wang, G., A Sequential Three-Way Decision Model With Intuitionistic Fuzzy Numbers; *TSMC May 2021 2640-2652*
- Zhang, Q., see Chen, J., *TSMC June 2021 3699-3712*
- Zhang, Q., see Gao, W., *TSMC Sept. 2021 5652-5663*
- Zhang, Q., Yan, H., Zhang, H., Chen, S., and Wang, M., H_∞ Control of Singular System Based on Stochastic Cyber-Attacks and Dynamic Event-Triggered Mechanism; *TSMC Dec. 2021 7510-7516*
- Zhang, Q., see Lin, P., *TSMC Dec. 2021 7882-7888*
- Zhang, R., and Gao, F., Two-Dimensional Iterative Learning Model Predictive Control for Batch Processes: A New State Space Model Compensation Approach; *TSMC Feb. 2021 833-841*
- Zhang, R., see Wang, L., *TSMC April 2021 2536-2549*
- Zhang, R., Xu, B., Wei, Q., Yang, T., Zhao, W., and Zhang, P., Serial-Parallel Estimation Model-Based Sliding Mode Control of MEMS Gyroscopes; *TSMC Dec. 2021 7764-7775*
- Zhang, S., see Yuan, J., *TSMC Jan. 2021 354-369*
- Zhang, S., see Qiao, Y., *TSMC March 2021 1612-1629*
- Zhang, S., Yang, P., Kong, L., Chen, W., Fu, Q., and Peng, K., Neural Networks-Based Fault Tolerant Control of a Robot via Fast Terminal Sliding Mode; *TSMC July 2021 4091-4101*
- Zhang, T., see Liu, Z., *TSMC Jan. 2021 209-222*

- Zhang, T.**, Su, G., Qing, C., Xu, X., Cai, B., and Xing, X., Hierarchical Lifelong Learning by Sharing Representations and Integrating Hypothesis ; *TSMC Feb. 2021 1004-1014*
- Zhang, T.**, see Sun, H., *TSMC April 2021 2113-2122*
- Zhang, T.**, see Liu, C., *TSMC April 2021 2332-2341*
- Zhang, T.**, see Xia, X., *TSMC Sept. 2021 5686-5697*
- Zhang, W.**, see Cui, Y., *TSMC Jan. 2021 561-573*
- Zhang, W.**, see Xiao, Z., *TSMC March 2021 1830-1843*
- Zhang, W.**, see Peng, C., *TSMC Nov. 2021 6669-6680*
- Zhang, W.**, Karimi, H.R., and Tang, Y., Distributed Tracking for Discrete-Time Multiagent Networks via an Ultrafast Control Protocol; *TSMC Dec. 2021 7542-7552*
- Zhang, X.**, Gao, Y., Chen, J., and Zhang, K., An Efficient Method to Recover Relative Pose for Vehicle-Mounted Cameras Under Planar Motion; *TSMC Feb. 2021 1138-1148*
- Zhang, X.**, see Su, Y., *TSMC May 2021 2833-2846*
- Zhang, X.**, see Yuan, J., *TSMC May 2021 2963-2979*
- Zhang, X.**, see Liu, J., *TSMC June 2021 3664-3677*
- Zhang, X.**, see Chen, Y., *TSMC July 2021 4160-4170*
- Zhang, X.**, see Tian, Y., *TSMC Sept. 2021 5880-5894*
- Zhang, X.**, see Yuan, J., *TSMC Sept. 2021 5377-5391*
- Zhang, X.**, see Lu, C., *TSMC Oct. 2021 6085-6095*
- Zhang, X.**, see Zhang, K., *TSMC Nov. 2021 7191-7200*
- Zhang, X.**, see Liu, J., *TSMC Nov. 2021 6962-6975*
- Zhang, X.**, see Xia, Y., *TSMC Dec. 2021 7735-7744*
- Zhang, Y.**, see Liu, Z., *TSMC Jan. 2021 339-353*
- Zhang, Y.**, Wang, D., Peng, Z., and Li, T., Distributed Containment Maneuvering of Uncertain Multiagent Systems in MIMO Strict-Feedback Form; *TSMC Feb. 2021 1354-1364*
- Zhang, Y.**, Li, S., and Liao, L., Consensus of High-Order Discrete-Time Multiagent Systems With Switching Topology; *TSMC Feb. 2021 721-730*
- Zhang, Y.**, see Guo, J., *TSMC March 2021 1662-1670*
- Zhang, Y.**, see Yang, X., *TSMC March 2021 1779-1793*
- Zhang, Y.**, see Xiao, L., *TSMC June 2021 3629-3640*
- Zhang, Y.**, Yin, C., Wu, Q., He, Q., and Zhu, H., Location-Aware Deep Collaborative Filtering for Service Recommendation; *TSMC June 2021 3796-3807*
- Zhang, Y.**, see Cao, Z., *TSMC Sept. 2021 5274-5288*
- Zhang, Y.**, see Han, S., *TSMC Nov. 2021 6701-6711*
- Zhang, Y.**, see Ling, Z., *TSMC Dec. 2021 7475-7485*
- Zhang, Z.**, Yue, D., Dou, C., and Zhang, H., Multiagent System-Based Integrated Design of Security Control and Economic Dispatch for Interconnected Microgrid Systems; *TSMC April 2021 2101-2112*
- Zhang, Z.**, see Wang, J., *TSMC April 2021 2284-2298*
- Zhang, Z.**, Teng, L., Zhou, M., Wang, J., and Wang, H., Enhanced Branch-and-Bound Framework for a Class of Sequencing Problems; *TSMC May 2021 2726-2736*
- Zhang, Z.**, see Xie, K., *TSMC May 2021 2653-2664*
- Zhang, Z.**, Chen, S., Xie, J., and Yang, S., Two Hybrid Multiobjective Motion Planning Schemes Synthesized by Recurrent Neural Networks for Wheeled Mobile Robot Manipulators; *TSMC May 2021 3270-3281*
- Zhang, Z.**, see Song, S., *TSMC June 2021 3575-3586*
- Zhang, Z.**, Xie, X., and Ge, S.S., Adaptive Tracking for Uncertain MIMO Nonlinear Systems With Time-Varying Parameters and Bounded Disturbance; *TSMC July 2021 4479-4491*
- Zhang, Z.**, see Li, F., *TSMC Sept. 2021 5752-5761*
- Zhang, Z.**, see Lu, H., *TSMC Sept. 2021 5639-5651*
- Zhang, Z.**, and Wu, Y., Further Results on Fixed-Time Stabilization and Tracking Control of a Marine Surface Ship Subjected to Output Constraints; *TSMC Sept. 2021 5300-5310*
- Zhang, Z.**, see Shi, S., *TSMC Sept. 2021 5357-5366*
- Zhang, Z.**, see Zhang, J., *TSMC Oct. 2021 5938-5948*
- Zhang, Z.**, see Song, S., *TSMC Nov. 2021 7238-7249*
- Zhang, Z.**, and Dong, J., Observer-Based Interval Type-2 $L_2 - L_\infty/H_\infty$ Mixed Fuzzy Control for Uncertain Nonlinear Systems Under Measurement Outliers; *TSMC Dec. 2021 7652-7662*
- Zhang, Z.**, Niu, Y., and Karimi, H.R., Sliding Mode Control of Interval Type-2 Fuzzy Systems Under Round-Robin Scheduling Protocol; *TSMC Dec. 2021 7602-7612*
- Zhao, B.**, see Liu, D., *TSMC Jan. 2021 142-160*
- Zhao, D.**, see Li, J., *TSMC Feb. 2021 696-704*
- Zhao, D.**, Wang, Z., Ho, D.W.C., and Wei, G., Observer-Based PID Security Control for Discrete Time-Delay Systems Under Cyber-Attacks; *TSMC June 2021 3926-3938*
- Zhao, D.**, Xiao, G., Wang, Z., Wang, L., and Xu, L., Minimum Dominating Set of Multiplex Networks: Definition, Application, and Identification; *TSMC Dec. 2021 7823-7837*
- Zhao, G.**, Hua, C., and Guan, X., Reset Control for Consensus of Multiagent Systems With Asynchronous Sampling; *TSMC Aug. 2021 4911-4919*
- Zhao, H.**, see Azimi, V., *TSMC Feb. 2021 1174-1191*
- Zhao, H.**, see Jin, B., *TSMC May 2021 3068-3079*
- Zhao, H.**, see Chen, B., *TSMC June 2021 4007-4012*
- Zhao, H.**, see Sun, H., *TSMC Dec. 2021 7663-7674*
- Zhao, J.**, see Sang, H., *TSMC Oct. 2021 6513-6522*
- Zhao, J.L.**, see Leng, J., *TSMC Jan. 2021 237-252*
- Zhao, L.**, Yu, J., and Shi, P., Command Filtered Backstepping-Based Attitude Containment Control for Spacecraft Formation; *TSMC Feb. 2021 1278-1287*
- Zhao, L.**, see Mo, L., *TSMC Oct. 2021 6404-6413*
- Zhao, S.**, see Vicente, A., *TSMC Feb. 2021 765-774*
- Zhao, S.**, see Du, P., *TSMC May 2021 3136-3147*
- Zhao, S.**, Xu, H., Hipel, K.W., and Fang, L., Mixed Coalitional Stabilities With Full Participation of Sanctioning Opponents Within the Graph Model for Conflict Resolution; *TSMC June 2021 3911-3925*
- Zhao, S.**, see Ma, R., *TSMC Dec. 2021 7685-7691*
- Zhao, T.**, Chen, W., Liew, A.W., Gu, T., Wu, X., and Zhang, J., A Binary Particle Swarm Optimizer With Priority Planning and Hierarchical Learning for Networked Epidemic Control ; *TSMC Aug. 2021 5090-5104*
- Zhao, W.**, see Lin, Y., *TSMC June 2021 3725-3738*
- Zhao, W.**, see Zhang, H., *TSMC Aug. 2021 4741-4750*
- Zhao, W.**, see Zhang, J., *TSMC Nov. 2021 6606-6613*
- Zhao, W.**, see Zhang, R., *TSMC Dec. 2021 7764-7775*
- Zhao, X.**, see Du, Z., *TSMC June 2021 3488-3497*
- Zhao, X.**, see Liang, X., *TSMC July 2021 4171-4182*
- Zhao, X.**, see Li, X., *TSMC Sept. 2021 5846-5854*
- Zhao, X.**, see Ma, L., *TSMC Nov. 2021 7051-7062*
- Zhao, X.**, see Yang, B., *TSMC Dec. 2021 7392-7402*
- Zhao, X.**, see Han, X., *TSMC Dec. 2021 7850-7859*
- Zhao, Y.**, Duan, Q., Wen, G., Zhang, D., and Wang, B., Time-Varying Formation for General Linear Multiagent Systems Over Directed Topologies: A Fully Distributed Adaptive Technique; *TSMC Jan. 2021 532-541*
- Zhao, Y.**, see Zhang, H., *TSMC May 2021 2687-2700*
- Zhao, Y.**, see Wang, T., *TSMC Sept. 2021 5289-5299*
- Zhao, Y.**, see Li, P., *TSMC Dec. 2021 7435-7449*
- Zhao, Y.**, Li, X., and Song, S., Observer-Based Sliding Mode Control for Stabilization of Mismatched Disturbance Systems With or Without Time Delays ; *TSMC Dec. 2021 7337-7345*
- Zhao, Z.**, Wang, Z., Zou, L., and Guo, G., Finite-Time State Estimation for Delayed Neural Networks With Redundant Delayed Channels; *TSMC Jan. 2021 441-451*
- Zhao, Z.**, He, X., and Ahn, C.K., Boundary Disturbance Observer-Based Control of a Vibrating Single-Link Flexible Manipulator; *TSMC April 2021 2382-2390*
- Zhao, Z.**, see He, X., *TSMC Aug. 2021 4706-4715*
- Zhao, Z.**, and Ahn, C.K., Boundary Output Constrained Control for a Flexible Beam System With Prescribed Performance; *TSMC Aug. 2021 4650-4658*
- Zhao, L.**, Zheng, C., Wang, Y., and Liu, B., A Finite-Time Control for a Pneumatic Cylinder Servo System Based on a Super-Twisting Extended State Observer; *TSMC Feb. 2021 1164-1173*
- Zheng, D.**, see Hua, M., *TSMC May 2021 3180-3192*
- Zheng, K.**, see Wang, X., *TSMC March 2021 1601-1611*
- Zheng, M.**, see Shi, W., *TSMC Feb. 2021 686-695*
- Zheng, N.**, see Zhang, H., *TSMC May 2021 3014-3025*
- Zheng, N.**, see Chen, B., *TSMC Sept. 2021 5819-5829*

- Zheng, Q., *see* Li, Y., *TSMC Oct. 2021 6564-6575*
- Zheng, W.X., *see* Jin, X., *TSMC April 2021 2272-2283*
- Zheng, W.X., *see* Sun, J., *TSMC May 2021 3148-3158*
- Zheng, W.X., *see* Xiao, M., *TSMC July 2021 4334-4346*
- Zheng, W.X., *see* Tang, Z., *TSMC July 2021 4555-4565*
- Zheng, W.X., *see* Shi, L., *TSMC Dec. 2021 7745-7751*
- Zheng, X., *see* Wang, X., *TSMC Jan. 2021 253-265*
- Zheng, X., *see* Yang, X., *TSMC Feb. 2021 1027-1034*
- Zheng, Z., *see* Huang, Y., *TSMC Jan. 2021 400-411*
- Zheng, C., *see* Zhao, L., *TSMC Feb. 2021 1164-1173*
- Zhong, J., *see* Ji, J., *TSMC April 2021 2054-2067*
- Zhong, M., Xue, T., Song, Y., Ding, S.X., and Ding, E.L., Parity Space Vector Machine Approach to Robust Fault Detection for Linear Discrete-Time Systems; *TSMC July 2021 4251-4261*
- Zhong, R.Y., Putnik, G.D., and Newman, S.T., A Heterogeneous Data Analytics Framework for RFID-Enabled Factories; *TSMC Sept. 2021 5567-5576*
- Zhong, S., *see* Wang, X., *TSMC April 2021 2561-2570*
- Zhong, S., *see* Luo, J., *TSMC Aug. 2021 4993-5004*
- Zhou, B., *see* Xu, M., *TSMC March 2021 1567-1581*
- Zhou, C., *see* Hu, B., *TSMC April 2021 2187-2198*
- Zhou, C., *see* He, W., *TSMC Dec. 2021 7326-7336*
- Zhou, D., *see* Zou, L., *TSMC March 2021 1904-1916*
- Zhou, D., *see* Zou, L., *TSMC May 2021 2937-2948*
- Zhou, H., *see* Cao, Y., *TSMC May 2021 3026-3039*
- Zhou, J., and Yue, H., Soft-Bound Interval Control System and Its Robust Fault-Tolerant Controller Design; *TSMC Jan. 2021 378-390*
- Zhou, J., Jiang, Z., Chung, F., and Wang, S., Formulating Ensemble Learning of SVMs Into a Single SVM Formulation by Negative Agreement Learning; *TSMC Oct. 2021 6015-6028*
- Zhou, J., *see* Han, S., *TSMC Nov. 2021 6701-6711*
- Zhou, J.T., *see* Xiao, Z., *TSMC March 2021 1830-1843*
- Zhou, L., *see* Chen, Y., *TSMC June 2021 3939-3953*
- Zhou, M., *see* Leng, J., *TSMC Jan. 2021 237-252*
- Zhou, M., *see* Fortino, G., *TSMC Jan. 2021 223-236*
- Zhou, M., *see* Luo, X., *TSMC Feb. 2021 916-926*
- Zhou, M., *see* Qiao, Y., *TSMC March 2021 1612-1629*
- Zhou, M., *see* Tian, G., *TSMC March 2021 1855-1868*
- Zhou, M., *see* Zhang, P., *TSMC March 2021 1805-1816*
- Zhou, M., *see* Zhang, Z., *TSMC May 2021 2726-2736*
- Zhou, M., *see* Gao, S., *TSMC June 2021 3954-3967*
- Zhou, M., *see* Lu, X.S., *TSMC July 2021 4324-4333*
- Zhou, M., *see* Wu, D., *TSMC July 2021 4285-4296*
- Zhou, M., *see* Xin, L., *TSMC Aug. 2021 4612-4623*
- Zhou, M., *see* Qiao, Y., *TSMC Nov. 2021 6792-6807*
- Zhou, M., *see* Feng, Y., *TSMC Dec. 2021 7403-7412*
- Zhou, P., *see* Wen, S., *TSMC Nov. 2021 7250-7259*
- Zhou, Q., *see* Cao, L., *TSMC March 2021 1380-1391*
- Zhou, Q., *see* Liu, Y., *TSMC Sept. 2021 5732-5741*
- Zhou, Q., Du, P., Li, H., Lu, R., and Yang, J., Adaptive Fixed-Time Control of Error-Constrained Pure-Feedback Interconnected Nonlinear Systems; *TSMC Oct. 2021 6369-6380*
- Zhou, S., and Song, Y., Prescribed Performance Neuroadaptive Fault-Tolerant Compensation for MIMO Nonlinear Systems Under Extreme Actuator Failures; *TSMC Sept. 2021 5427-5436*
- Zhou, S., *see* Zhang, D., *TSMC Nov. 2021 7269-7278*
- Zhou, T., Zuo, Z., Wang, Y., and Li, H., Synchronization of Lurie Systems Under Limited Network Transmission Capacity With Quantization and One-Step Packet Dropout: An Active Method; *TSMC Aug. 2021 4920-4928*
- Zhou, W., *see* Xu, C., *TSMC Feb. 2021 954-964*
- Zhou, W., Lv, Y., Lei, J., and Yu, L., Global and Local-Contrast Guides Content-Aware Fusion for RGB-D Saliency Prediction; *TSMC June 2021 3641-3649*
- Zhou, W., *see* Yi, J., *TSMC Aug. 2021 4980-4992*
- Zhou, W., *see* Yang, L., *TSMC Oct. 2021 5977-5991*
- Zhou, X., *see* Zhang, H., *TSMC May 2021 3014-3025*
- Zhou, Y., Zhang, H., and Zeng, Z., Quasi-Synchronization of Delayed Memristive Neural Networks via a Hybrid Impulsive Control; *TSMC March 2021 1954-1965*
- Zhou, Y., *see* Wang, J., *TSMC April 2021 2284-2298*
- Zhou, Y., *see* Liu, C., *TSMC May 2021 2894-2903*
- Zhou, Y., *see* Hua, Z., *TSMC June 2021 3713-3724*
- Zhou, Y., He, H., and Sun, C., Fully Distributed Finite-Time Consensus of Directed Multiquadcopter Systems via Pinning Control; *TSMC Aug. 2021 5080-5089*
- Zhou, Z., *see* Tang, S., *TSMC Aug. 2021 4895-4910*
- Zhou, Z., Hu, G., Hu, C., Wen, C., and Chang, L., A Survey of Belief Rule-Based Expert System; *TSMC Aug. 2021 4944-4958*
- Zhous, S., *see* Cao, Z., *TSMC Sept. 2021 5274-5288*
- Zhu, C., *see* Yu, D., *TSMC Aug. 2021 5165-5173*
- Zhu, D., *see* He, X., *TSMC Aug. 2021 4706-4715*
- Zhu, G., *see* Li, K., *TSMC April 2021 2602-2610*
- Zhu, G., *see* Gong, C., *TSMC Sept. 2021 5867-5879*
- Zhu, H., *see* Ma, H., *TSMC Feb. 2021 1322-1333*
- Zhu, H., *see* Xu, H., *TSMC May 2021 2860-2872*
- Zhu, H., *see* Jin, B., *TSMC May 2021 3068-3079*
- Zhu, H., *see* Zhang, Y., *TSMC June 2021 3796-3807*
- Zhu, H., *see* Li, X., *TSMC Nov. 2021 6892-6900*
- Zhu, J., *see* Wang, J., *TSMC July 2021 4078-4090*
- Zhu, L., *see* Du, S., *TSMC Jan. 2021 487-496*
- Zhu, M., *see* Yu, W., *TSMC Sept. 2021 5905-5917*
- Zhu, P., *see* Liu, X., *TSMC Aug. 2021 5254-5260*
- Zhu, Q., *see* Hu, W., *TSMC March 2021 2027-2032*
- Zhu, Q., *see* Gnanesanaran, N., *TSMC June 2021 3346-3357*
- Zhu, Q., *see* Yang, X., *TSMC Sept. 2021 5895-5904*
- Zhu, Q., *see* Qiao, Y., *TSMC Nov. 2021 6792-6807*
- Zhu, Q., *see* Ding, K., *TSMC Nov. 2021 7017-7026*
- Zhu, R., *see* Xu, M., *TSMC March 2021 1567-1581*
- Zhu, S., *see* Qu, M., *TSMC April 2021 2145-2158*
- Zhu, S., *see* Lin, Y., *TSMC June 2021 3725-3738*
- Zhu, W., *see* Yuan, J., *TSMC May 2021 2963-2979*
- Zhu, W., *see* Yuan, J., *TSMC Sept. 2021 5377-5391*
- Zhu, W., Du, H., Li, S., and Yu, X., Design of Output-Based Finite-Time Convergent Composite Controller for a Class of Perturbed Second-Order Nonlinear Systems; *TSMC Nov. 2021 6768-6778*
- Zhu, X., *see* Chen, H., *TSMC March 2021 1507-1522*
- Zhu, Y., Ren, W., Yu, W., and Wen, G., Distributed Resource Allocation Over Directed Graphs via Continuous-Time Algorithms; *TSMC Feb. 2021 1097-1106*
- Zhuang, G., *see* Xia, J., *TSMC March 2021 1945-1953*
- Zhuang, G., *see* Sun, W., *TSMC Oct. 2021 6555-6563*
- Zhuang, G., Xia, J., Feng, J., Sun, W., and Zhang, B., Admissibilization for Implicit Jump Systems With Mixed Retarded Delays Based on Reciprocally Convex Integral Inequality and Barbalat's Lemma; *TSMC Nov. 2021 6808-6818*
- Zhuang, J., Geng, K., and Yin, G., Ensemble Learning Based Brain-Computer Interface System for Ground Vehicle Control; *TSMC Sept. 2021 5392-5404*
- Zong, G., *see* Qi, W., *TSMC Feb. 2021 775-785*
- Zong, G., *see* Ren, H., *TSMC March 2021 1725-1734*
- Zong, G., *see* Sun, H., *TSMC May 2021 3111-3124*
- Zong, G., *see* Ma, L., *TSMC Nov. 2021 7051-7062*
- Zong, G., *see* Yang, B., *TSMC Dec. 2021 7392-7402*
- Zong, G., Qi, W., and Karimi, H.R., \mathcal{H}_2 Control of Positive Semi-Markov Jump Systems With State Delay; *TSMC Dec. 2021 7569-7578*
- Zong, G., *see* Han, X., *TSMC Dec. 2021 7850-7859*
- Zong, Q., *see* Ye, L., *TSMC May 2021 3159-3167*
- Zou, L., *see* Zhao, Z., *TSMC Jan. 2021 441-451*
- Zou, L., Wang, Z., Han, Q., and Zhou, D., Full Information Estimation for Time-Varying Systems Subject to Round-Robin Scheduling: A Recursive Filter Approach; *TSMC March 2021 1904-1916*
- Zou, L., Wang, Z., Han, Q., and Zhou, D., Moving Horizon Estimation of Networked Nonlinear Systems With Random Access Protocol; *TSMC May 2021 2937-2948*

Zou, W., see Zhang, J., *TSMC Oct. 2021 5938-5948*
Zou, Y., see Cao, Z., *TSMC March 2021 1523-1533*
Zou, Y., see Huang, B., *TSMC Nov. 2021 7260-7268*
Zou, Y., see Li, X., *TSMC Dec. 2021 7860-7869*
Zuo, L., see Liu, J., *TSMC June 2021 3664-3677*
Zuo, Z., see Cui, L., *TSMC June 2021 3429-3439*
Zuo, Z., see Zhou, T., *TSMC Aug. 2021 4920-4928*
Zuo, Z., see Chang, S., *TSMC Nov. 2021 7120-7130*

Subject Index

A

Acceleration

Foot Placement Compensator Design for Humanoid Walking Based on Discrete Control Lyapunov Function. *Liu, C.*, +, *TSMC April 2021 2332-2341*

Access protocols

Moving Horizon Estimation of Networked Nonlinear Systems With Random Access Protocol. *Zou, L.*, +, *TSMC May 2021 2937-2948*

Accounts data processing

Proof of Previous Transactions (PoPT): An Efficient Approach to Consensus for JCLedger. *Xiang, F.*, +, *TSMC April 2021 2415-2424*

Acoustic signal processing

Tracking Controllers to Chase a Target Using Multiple Autonomous Underwater Vehicles Measuring the Sound Emitted From the Target. *Kim, J.*, *TSMC July 2021 4579-4587*

Active disturbance rejection control

Fixed-Time Active Disturbance Rejection Control and Its Application to Wheeled Mobile Robots. *Chang, S.*, +, *TSMC Nov. 2021 7120-7130*

Actuators

Active Fault-Tolerant Control for Discrete Vehicle Active Suspension Via Reduced-Order Observer. *Han, S.*, +, *TSMC Nov. 2021 6701-6711*

Adaptive Compensation of Persistent Actuator Failures Using Control-Separation-Based LQ Design. *Wen, L.*, +, *TSMC Aug. 2021 5030-5045*

Adaptive Fault-Tolerant Control for Attitude Tracking of Flexible Spacecraft With Limited Data Transmission. *Liu, Q.*, +, *TSMC July 2021 4400-4408*

Adaptive Neural Sliding Mode Control for Singular Semi-Markovian Jump Systems Against Actuator Attacks. *Cao, Z.*, +, *TSMC March 2021 1523-1533*

Adaptive Neural Sliding Mode Control of Markov Jump Systems Subject to Malicious Attacks. *Lin, W.*, +, *TSMC Dec. 2021 7870-7881*

Adaptive Path Following Control of Unmanned Surface Vehicles Considering Environmental Disturbances and System Constraints. *Liu, Z.*, +, *TSMC Jan. 2021 339-353*

Adaptive Sliding Mode Fault-Tolerant Fuzzy Tracking Control With Application to Unmanned Marine Vehicles. *Wang, Y.*, +, *TSMC Nov. 2021 6691-6700*

Asynchronous Fault Detection and Isolation for Markov Jump Systems With Actuator Failures Under Networked Environment. *Long, Y.*, +, *TSMC June 2021 3477-3487*

Auxiliary Constrained Control of a Class of Fault-Tolerant Systems. *Jin, X.*, +, *TSMC April 2021 2272-2283*

Data-Driven Output-Feedback LQ Secure Control for Unknown Cyber-Physical Systems Against Sparse Actuator Attacks. *Shen, X.*, +, *TSMC Sept. 2021 5708-5720*

Dwell-Time-Based Exponential Stabilization of Switched Positive Systems With Actuator Saturation. *Ma, R.*, +, *TSMC Dec. 2021 7685-7691*

Event-Driven Fault Detection for Discrete-Time Interval Type-2 Fuzzy Systems. *Pan, Y.*, +, *TSMC Aug. 2021 4959-4968*

Event-Triggered Adaptive Output Feedback Control of Multivariable Systems With Nonsmooth Actuator Nonlinearities. *Yang, Y.*, +, *TSMC Sept. 2021 5557-5566*

Extended Dissipativity Performance of High-Speed Train Including Actuator Faults and Probabilistic Time-Delays Under Resilient Reliable Control. *Cao, J.*, +, *TSMC June 2021 3808-3819*

Fault-Tolerant Fuzzy Formation Control for a Class of Nonlinear Multiagent Systems Under Directed and Switching Topology. *Deng, C.*, +, *TSMC Sept. 2021 5456-5465*

Fuzzy Adaptive Fault-Tolerant Control of Fractional-Order Nonlinear Systems. *Li, Y.*, +, *TSMC March 2021 1372-1379*

Fuzzy Sampled-Data Control for DFIG-Based Wind Turbine With Stochastic Actuator Failures. *Sharmila, V.*, +, *TSMC April 2021 2199-2211*

Global Adaptive Control for Uncertain Nonlinear Systems With Sensor and Actuator Faults. *Ma, J.*, +, *TSMC Sept. 2021 5503-5510*

Hybrid Disturbance Observer-Based Anti-Disturbance Composite Control With Applications to Mars Landing Mission. *Xu, J.*, +, *TSMC May 2021 2885-2893*

Input-Output Finite-Time Reliable Static Output Control of Time-Varying System With Input Delay. *Chen, M.*, +, *TSMC Feb. 2021 1334-1344*

Interval Type-2 FNN-Based Quantized Tracking Control for Hypersonic Flight Vehicles With Prescribed Performance. *Gao, Y.*, +, *TSMC March 2021 1981-1993*

Neural Integral Backstepping Hierarchical Sliding Mode Control for a Ridable Ballbot Under Uncertainties and Input Saturation. *Do, V.*, +, *TSMC Nov. 2021 7214-7227*

Neural Network-Based Adaptive Fault-Tolerant Control for Markovian Jump Systems With Nonlinearity and Actuator Faults. *Yang, H.*, +, *TSMC June 2021 3687-3698*

NN-Based Adaptive Tracking Control of Discrete-Time Nonlinear Systems With Actuator Saturation and Event-Triggering Protocol. *Wang, M.*, +, *TSMC Dec. 2021 7613-7621*

Nonlinear Control of Quadrotor for Fault Tolerance: A Total Failure of One Actuator. *Wu, Y.*, +, *TSMC May 2021 2810-2820*

Prescribed Performance Neuroadaptive Fault-Tolerant Compensation for MIMO Nonlinear Systems Under Extreme Actuator Failures. *Zhou, S.*, +, *TSMC Sept. 2021 5427-5436*

RBFNN-Based Adaptive Iterative Learning Fault-Tolerant Control for Subway Trains With Actuator Faults and Speed Constraint. *Liu, G.*, +, *TSMC Sept. 2021 5785-5799*

Reliable Fuzzy H_∞ Control for Permanent Magnet Synchronous Motor Against Stochastic Actuator Faults. *Vadivel, R.*, +, *TSMC April 2021 2232-2245*

Stability Analysis for Input Saturated Discrete-Time Switched Systems With Average Dwell-Time. *Wang, Q.*, +, *TSMC Jan. 2021 412-419*

Time-Scale Redesign-Based Saturated Controller Synthesis for a Class of MIMO Nonlinear Systems. *Rayguru, M.M.*, +, *TSMC Aug. 2021 4681-4692*

Adaptation models

Observer-Based Sampled-Data Model-Free Adaptive Control for Continuous-Time Nonlinear Nonaffine Systems With Input Rate Constraints. *Hui, Y.*, +, *TSMC Dec. 2021 7813-7822*

Adaptive control

A Novel Finite-Time Control for Nonstrict Feedback Saturated Nonlinear Systems With Tracking Error Constraint. *Sun, K.*, +, *TSMC June 2021 3968-3979*

A Novel Robust Control Method for Motion Control of Uncertain Single-Link Flexible-Joint Manipulator. *Yan, Z.*, +, *TSMC March 2021 1671-1678*

A Robust Hybrid of a Feedback Linearization Technique and an Interval Type-2 Fuzzy Control System for the Flapping Angle Dynamics of a Biomimetic Aircraft. *Santoso, F.*, +, *TSMC Sept. 2021 5664-5673*

Adaptive Asymptotic Tracking for a Class of Uncertain Switched Positive Compartmental Models With Application to Anesthesia. *Li, M.*, +, *TSMC Aug. 2021 4936-4942*

Adaptive Command Filtered Neuro-Fuzzy Control Design for Fractional-Order Nonlinear Systems With Unknown Control Directions and Input Quantization. *Song, S.*, +, *TSMC Nov. 2021 7238-7249*

Adaptive Compensation of Persistent Actuator Failures Using Control-Separation-Based LQ Design. *Wen, L.*, +, *TSMC Aug. 2021 5030-5045*

Adaptive Control for Three-Phase Power Converters With Disturbance Rejection Performance. *Yin, Y.*, +, *TSMC Feb. 2021 674-685*

- Adaptive Control of Full-State Constrained High-Order Nonlinear Systems With Time-Varying Powers. *Guo, C.*, +, *TSMC Aug. 2021 5189-5197*
- Adaptive Estimation of Time-Varying Parameters With Application to Roto-Magnet Plant. *Na, J.*, +, *TSMC Feb. 2021 731-741*
- Adaptive Fault-Tolerant Control for Attitude Tracking of Flexible Spacecraft With Limited Data Transmission. *Liu, Q.*, +, *TSMC July 2021 4400-4408*
- Adaptive Finite-Time Fuzzy Funnell Control for Nonaffine Nonlinear Systems. *Liu, C.*, +, *TSMC May 2021 2894-2903*
- Adaptive Finite-Time Saturated Tracking Control for a Class of Partially Known Robots. *Hwang, C.*, +, *TSMC Sept. 2021 5674-5685*
- Adaptive Finite-Time Tracking Control for Continuous Stirred Tank Reactor With Time-Varying Output Constraint. *Li, D.*, +, *TSMC Sept. 2021 5929-5934*
- Adaptive Fixed-Time Control of Error-Constrained Pure-Feedback Interconnected Nonlinear Systems. *Zhou, Q.*, +, *TSMC Oct. 2021 6369-6380*
- Adaptive Fuzzy Full-State and Output-Feedback Control for Uncertain Robots With Output Constraint. *Yu, X.*, +, *TSMC Nov. 2021 6994-7007*
- Adaptive High-Order Terminal Sliding Mode Control Based on Time Delay Estimation for the Robotic Manipulators With Backlash Hysteresis. *Ahmed, S.*, +, *TSMC Feb. 2021 1128-1137*
- Adaptive Intelligent Control for Input and Output Constrained High-Order Uncertain Nonlinear Systems. *Sun, W.*, +, *TSMC Sept. 2021 5577-5586*
- Adaptive Inverse Control of a Vibrating Coupled Vessel-Riser System With Input Backlash. *He, X.*, +, *TSMC Aug. 2021 4706-4715*
- Adaptive Iterative Learning Control for High-Speed Train: A Multi-Agent Approach. *Huang, D.*, +, *TSMC July 2021 4067-4077*
- Adaptive Leaderless Consensus Control of Strict-Feedback Nonlinear Multiagent Systems With Unknown Control Directions. *Rezaee, H.*, +, *TSMC Oct. 2021 6435-6444*
- Adaptive Neural Discrete-Time Fractional-Order Control for a UAV System With Prescribed Performance Using Disturbance Observer. *Shao, S.*, +, *TSMC Feb. 2021 742-754*
- Adaptive Neural Network Control Design for Uncertain Nonstrict Feedback Nonlinear System With State Constraints. *Ma, L.*, +, *TSMC June 2021 3678-3686*
- Adaptive Neural Network-Based Finite-Time Tracking Control for Nonstrict Nonaffined MIMO Nonlinear Systems. *Li, S.*, +, *TSMC Aug. 2021 4814-4824*
- Adaptive Neural Sliding Mode Control for Singular Semi-Markovian Jump Systems Against Actuator Attacks. *Cao, Z.*, +, *TSMC March 2021 1523-1533*
- Adaptive Neural Tracking Control Scheme of Switched Stochastic Nonlinear Pure-Feedback Nonlower Triangular Systems. *Niu, B.*, +, *TSMC Feb. 2021 975-986*
- Adaptive NN Cooperative Control of Unknown Nonlinear Multiagent Systems With Communication Delays. *Psillakis, H.E.*, *TSMC Sept. 2021 5311-5321*
- Adaptive NN Cross Backstepping Control for Nonlinear Systems With Partial Time-Varying State Constraints and Its Applications to Hyper-Chaotic Systems. *Li, D.*, +, *TSMC May 2021 2821-2832*
- Adaptive Nonlinear Hierarchical Control for a Rotorcraft Transporting a Cable-Suspended Payload. *Liang, X.*, +, *TSMC July 2021 4171-4182*
- Adaptive Path Following Control of Unmanned Surface Vehicles Considering Environmental Disturbances and System Constraints. *Liu, Z.*, +, *TSMC Jan. 2021 339-353*
- Adaptive Quantized Control of Output Feedback Nonlinear Systems With Input Unmodeled Dynamics Based on Backstepping and Small-Gain Method. *Xia, X.*, +, *TSMC Sept. 2021 5686-5697*
- Adaptive Sliding Mode Fault-Tolerant Fuzzy Tracking Control With Application to Unmanned Marine Vehicles. *Wang, Y.*, +, *TSMC Nov. 2021 6691-6700*
- Adaptive Tracking Control of FIR Systems Under Binary-Valued Observations and Recursive Projection Identification. *Wang, T.*, +, *TSMC Sept. 2021 5289-5299*
- Adaptive Tracking for Uncertain MIMO Nonlinear Systems With Time-Varying Parameters and Bounded Disturbance. *Zhang, Z.*, +, *TSMC July 2021 4479-4491*
- Adaptive Type-2 FNN-Based Dynamic Sliding Mode Control of DC-DC Boost Converters. *Wang, J.*, +, *TSMC April 2021 2246-2257*
- Adaptive Vehicle Stability Control of Half-Car Active Suspension Systems With Partial Performance Constraints. *Zeng, Q.*, +, *TSMC March 2021 1704-1714*
- Adaptively Synchronize the Derivative Coupled Complex Networks With Proportional Delay. *Tang, Z.*, +, *TSMC Aug. 2021 4969-4979*
- Asymmetric Bounded Neural Control for an Uncertain Robot by State Feedback and Output Feedback. *Kong, L.*, +, *TSMC March 2021 1735-1746*
- Auxiliary Constrained Control of a Class of Fault-Tolerant Systems. *Jin, X.*, +, *TSMC April 2021 2272-2283*
- Bank of High-Gain Observers in Output Feedback Control: Robustness Analysis Against Measurement Noise. *Esfandiari, K.*, +, *TSMC April 2021 2476-2487*
- Boundary Output Constrained Control for a Flexible Beam System With Prescribed Performance. *Zhao, Z.*, +, *TSMC Aug. 2021 4650-4658*
- Characteristic Model-Based Control Approach for Complex Network Systems. *Chen, L.*, +, *TSMC June 2021 3599-3607*
- Characteristic Modeling Approach for High-Order Linear Dynamical Systems. *Chen, L.*, +, *TSMC Sept. 2021 5405-5413*
- Command Filter-Based Adaptive Fuzzy Control for Nonlinear Systems With Unknown Control Directions. *Xia, J.*, +, *TSMC March 2021 1945-1953*
- Command Filter-Based Adaptive Prescribed Performance Tracking Control for Stochastic Uncertain Nonlinear Systems. *Sun, W.*, +, *TSMC Oct. 2021 6555-6563*
- Command Filtered Backstepping-Based Attitude Containment Control for Spacecraft Formation. *Zhao, L.*, +, *TSMC Feb. 2021 1278-1287*
- Consensus of Multiagent Systems With Relative State Saturations. *Chu, H.*, +, *TSMC April 2021 2391-2402*
- Control Design for Uncertain Switched Nonlinear Systems: Adaptive Neural Approach. *Liu, Z.*, +, *TSMC April 2021 2322-2331*
- Cooperative Control of Multiple High-Order Agents With Nonidentical Unknown Control Directions Under Fixed and Time-Varying Topologies. *Wang, Q.*, +, *TSMC April 2021 2582-2591*
- Cooperative Moving-Target Enclosing Control for Multiple Nonholonomic Vehicles Using Feedback Linearization Approach. *Peng, X.*, +, *TSMC Aug. 2021 4929-4935*
- Coordinated Control of Underwater Biomimetic Vehicle-Manipulator System for Free Floating Autonomous Manipulation. *Cai, M.*, +, *TSMC Aug. 2021 4793-4803*
- Couple-Group Consensus for Cooperative-Competitive Heterogeneous Multiagent Systems: Hybrid Adaptive and Pinning Methods. *Ji, L.*, +, *TSMC Sept. 2021 5367-5376*
- Data-Driven Output-Feedback LQ Secure Control for Unknown Cyber-Physical Systems Against Sparse Actuator Attacks. *Shen, X.*, +, *TSMC Sept. 2021 5708-5720*
- Design of Output-Based Finite-Time Convergent Composite Controller for a Class of Perturbed Second-Order Nonlinear Systems. *Zhu, W.*, +, *TSMC Nov. 2021 6768-6778*
- Distributed Adaptive Tracking Control for Lur'e Systems With Event-Triggered Strategy. *Wu, Z.*, +, *TSMC May 2021 3263-3269*
- Distributed Containment Control of MIMO Pure-Feedback Multiagent Systems Using Filter-Driven-Approximation Approach. *Choi, Y.H.*, +, *TSMC Sept. 2021 5490-5502*
- Distributed Containment Maneuvering of Uncertain Multiagent Systems in MIMO Strict-Feedback Form. *Zhang, Y.*, +, *TSMC Feb. 2021 1354-1364*
- Distributed Dynamic Averaging Tracking Without Rate Measurements. *Chen, Y.*, +, *TSMC July 2021 4359-4364*
- Distributed Formation Control of Nonholonomic Wheeled Mobile Robots Subject to Longitudinal Slippage Constraints. *Wang, Z.*, +, *TSMC May 2021 2992-3003*
- Distributed Optimal Consensus Control for a Class of Uncertain Nonlinear Multiagent Networks With Disturbance Rejection Using Adaptive Technique. *Wang, D.*, +, *TSMC July 2021 4389-4399*
- Distributed Optimal Observer Design of Networked Systems via Adaptive Critic Design. *Fu, H.*, +, *TSMC Nov. 2021 6976-6985*

- Distributed Robust Adaptive Optimization for Nonlinear Multiagent Systems. *Liu, Y., +, TSMC Feb. 2021 1046-1053*
- Distributed-Observer-Based Nash Equilibrium Seeking Algorithm for Quadratic Games With Nonlinear Dynamics. *Huang, B., +, TSMC Nov. 2021 7260-7268*
- Disturbance Observer-Based Adaptive Finite-Time Attitude Tracking Control for Rigid Spacecraft. *Zhang, J., +, TSMC Nov. 2021 6606-6613*
- Echo State Network-Based Decentralized Control of Continuous-Time Nonlinear Large-Scale Interconnected Systems. *Zhang, H., +, TSMC Oct. 2021 6293-6303*
- Event-Based Formation Coordinated Control for Multiple Spacecraft Under Communication Constraints. *Hu, Q., +, TSMC May 2021 3168-3179*
- Event-Triggered Adaptive Output Feedback Control of Multivariable Systems With Nonsmooth Actuator Nonlinearities. *Yang, Y., +, TSMC Sept. 2021 5557-5566*
- Event-Triggered Control for Multiagent Systems With Sensor Faults and Input Saturation. *Cao, L., +, TSMC June 2021 3855-3866*
- Event-Triggered Distributed H_∞ Constrained Control of Physically Interconnected Large-Scale Partially Unknown Strict-Feedback Systems. *Tan, L.N., TSMC April 2021 2444-2456*
- Event-Triggered Model-Free Adaptive Control. *Lin, N., +, TSMC June 2021 3358-3369*
- Event-Triggered Prescribed Performance Control for a Class of Unknown Nonlinear Systems. *Zhang, J., +, TSMC Oct. 2021 6576-6586*
- Event-Triggered Robust Output Regulation of Uncertain Linear Systems With Unknown Exosystems. *Qian, Y., +, TSMC July 2021 4139-4148*
- Exponential Stability of Markovian Jumping Systems via Adaptive Sliding Mode Control. *Xu, C., +, TSMC Feb. 2021 954-964*
- Fault-Tolerant Fuzzy Formation Control for a Class of Nonlinear Multiagent Systems Under Directed and Switching Topology. *Deng, C., +, TSMC Sept. 2021 5456-5465*
- Finite-Time Stabilization of High-Order Stochastic Nonlinear Systems With Asymmetric Output Constraints. *Fang, L., +, TSMC Nov. 2021 7201-7213*
- Force Sensorless Admittance Control for Teleoperation of Uncertain Robot Manipulator Using Neural Networks. *Yang, C., +, TSMC May 2021 3282-3292*
- Further Results on Fixed-Time Stabilization and Tracking Control of a Marine Surface Ship Subjected to Output Constraints. *Zhang, Z., +, TSMC Sept. 2021 5300-5310*
- Fuzzy Adaptive Fault-Tolerant Control of Fractional-Order Nonlinear Systems. *Li, Y., +, TSMC March 2021 1372-1379*
- Fuzzy Adaptive Tracking Control for State Constraint Switched Stochastic Nonlinear Systems With Unstable Inverse Dynamics. *Wu, W., +, TSMC Sept. 2021 5522-5534*
- Fuzzy Finite-Time Tracking Control for a Class of Nonaffine Nonlinear Systems With Unknown Dead Zones. *Bao, J., +, TSMC Jan. 2021 452-463*
- Global Adaptive Control for Uncertain Nonlinear Systems With Sensor and Actuator Faults. *Ma, J., +, TSMC Sept. 2021 5503-5510*
- Gradient Descent Algorithm-Based Adaptive NN Control Design for an Induction Motor. *Yang, X., +, TSMC Feb. 2021 1027-1034*
- High-Order Internal Model-Based Iterative Learning Control for 2-D Linear FMMI Systems With Iteration-Varying Trajectory Tracking. *Wan, K., +, TSMC March 2021 1462-1472*
- High-Precision Attitude Tracking Control of Space Manipulator System Under Multiple Disturbances. *Qiao, J., +, TSMC July 2021 4274-4284*
- Impedance Control for Coordinated Robots by State and Output Feedback. *Dong, Y., +, TSMC Aug. 2021 5056-5066*
- Intelligent Leader-Following Consensus Formation Control Using Recurrent Neural Networks for Small-Size Unmanned Helicopters. *Kuo, C., +, TSMC Feb. 2021 1288-1301*
- Interval Type-2 FNN-Based Quantized Tracking Control for Hypersonic Flight Vehicles With Prescribed Performance. *Gao, Y., +, TSMC March 2021 1981-1993*
- LPV Scheme for Robust Adaptive Output Feedback Consensus of Lipschitz Multiagents Using Lipschitz Nonlinear Protocol. *Rehman, A.u., +, TSMC Nov. 2021 7040-7050*
- Lyapunov Control Method for Mismatched Uncertainty and Gain Variation Compensation in Switched Systems. *Aghababa, M.P., TSMC July 2021 4227-4237*
- Model-Based Adaptive Control of Transfemoral Prostheses: Theory, Simulation, and Experiments. *Azimi, V., +, TSMC Feb. 2021 1174-1191*
- Multi-Kernel Online Reinforcement Learning for Path Tracking Control of Intelligent Vehicles. *Liu, J., +, TSMC Nov. 2021 6962-6975*
- Multileader Multiagent Systems Containment Control With Event-Triggering. *Xu, Y., +, TSMC March 2021 1642-1651*
- Nearly Optimal Integral Sliding-Mode Consensus Control for Multiagent Systems With Disturbances. *Zhang, H., +, TSMC Aug. 2021 4741-4750*
- Neural Integral Backstepping Hierarchical Sliding Mode Control for a Rideable Ballbot Under Uncertainties and Input Saturation. *Do, V., +, TSMC Nov. 2021 7214-7227*
- Neural Network-Based Adaptive Fault-Tolerant Control for Markovian Jump Systems With Nonlinearity and Actuator Faults. *Yang, H., +, TSMC June 2021 3687-3698*
- Neural Network-Based Sampled-Data Control for Switched Uncertain Nonlinear Systems. *Li, S., +, TSMC Sept. 2021 5437-5445*
- Neural-Based Decentralized Adaptive Finite-Time Control for Nonlinear Large-Scale Systems With Time-Varying Output Constraints. *Du, P., +, TSMC May 2021 3136-3147*
- Neuro-Fuzzy-Based Adaptive Dynamic Surface Control for Fractional-Order Nonlinear Strict-Feedback Systems With Input Constraint. *Song, S., +, TSMC June 2021 3575-3586*
- Observer-Based Adaptive Event-Triggered Control for Nonstrict-Feedback Nonlinear Systems With Output Constraint and Actuator Failures. *Cao, L., +, TSMC March 2021 1380-1391*
- Observer-Based Containment Control for a Class of Nonlinear Multiagent Systems With Uncertainties. *Yang, Y., +, TSMC Jan. 2021 588-600*
- Output Tracking of Uncertain Nonminimum Phase Systems by Experience Replay. *Ye, L., +, TSMC May 2021 3159-3167*
- Output-Based Containment Control for Uncertain Nonaffine Nonlinear Multiagent Systems. *Yang, Y., +, TSMC Oct. 2021 5992-6002*
- Output-Feedback Adaptive Control of Nonlinear Systems With Input-Output-Dependent Lower-Triangular Growth Rate: A Logic-Based Switching Approach. *Huang, C., +, TSMC Aug. 2021 4804-4813*
- Policy-Iteration-Based Learning for Nonlinear Player Game Systems With Constrained Inputs. *Mu, C., +, TSMC Oct. 2021 6488-6502*
- Position-Tracking Controller for Two-Wheeled Balancing Robot Applications Using Invariant Dynamic Surface. *Kim, S., +, TSMC Feb. 2021 705-711*
- Prescribed Performance Neuroadaptive Fault-Tolerant Compensation for MIMO Nonlinear Systems Under Extreme Actuator Failures. *Zhou, S., +, TSMC Sept. 2021 5427-5436*
- Quantized Decentralized Adaptive Neural Network PI Tracking Control for Uncertain Interconnected Nonlinear Systems With Dynamic Uncertainties. *Sun, H., +, TSMC May 2021 3111-3124*
- RBFNN-Based Adaptive Iterative Learning Fault-Tolerant Control for Subway Trains With Actuator Faults and Speed Constraint. *Liu, G., +, TSMC Sept. 2021 5785-5799*
- Reduced Adaptive Fuzzy Tracking Control for High-Order Stochastic Nonstrict Feedback Nonlinear System With Full-State Constraints. *Sun, W., +, TSMC March 2021 1496-1506*
- Reduced-Order Observer-Based Adaptive Fuzzy Tracking Control Scheme of Stochastic Switched Nonlinear Systems. *Niu, B., +, TSMC July 2021 4566-4578*
- Removing Feasibility Conditions on Tracking Control of Full-State Constrained Nonlinear Systems With Time-Varying Powers. *Xie, X., +, TSMC Oct. 2021 6535-6543*
- Rendezvous of Heterogeneous Multiagent Systems With Nonuniform Time-Varying Information Delays: An Adaptive Approach. *Wang, J., +, TSMC Aug. 2021 4848-4857*
- Repetitive Learning Control for Control-Affine Systems With Time Delays. *Li, H., +, TSMC Aug. 2021 5142-5152*

- RISE-Based Integrated Motion Control of Autonomous Ground Vehicles With Asymptotic Prescribed Performance. *Hu, C., +, TSMC Sept. 2021 5336-5348*
- Robust Adaptive Control for State-Constrained Nonlinear Systems With Input Saturation and Unknown Control Direction. *Wu, Y., +, TSMC Feb. 2021 1192-1202*
- Robust Adaptive Neural Control of Nonminimum Phase Hypersonic Vehicle Model. *Xu, B., +, TSMC Feb. 2021 1107-1115*
- Robust Distributed Formation Controller Design for a Group of Unmanned Underwater Vehicles. *Liu, H., +, TSMC Feb. 2021 1215-1223*
- Robust Iterative Learning Control of 2-D Linear Discrete FMMII Systems Subject to Iteration-Dependent Uncertainties. *Wan, K., +, TSMC Oct. 2021 5949-5961*
- Robust Tracking of Nonrepetitive Learning Control Systems With Iteration-Dependent References. *Meng, D., +, TSMC Feb. 2021 842-852*
- Small-Gain Technique-Based Adaptive Neural Output-Feedback Fault-Tolerant Control of Switched Nonlinear Systems With Unmodeled Dynamics. *Ma, L., +, TSMC Nov. 2021 7051-7062*
- Stable Adaptive Controller Based on Generalized Regression Neural Networks and Sliding Mode Control for a Class of Nonlinear Time-Varying Systems. *Al-Mahasneh, A.J., +, TSMC April 2021 2525-2535*
- Targeting Posture Control With Dynamic Obstacle Avoidance of Constrained Uncertain Wheeled Mobile Robots Including Unknown Skidding and Slipping. *Lu, Q., +, TSMC Nov. 2021 6650-6659*
- The Set-Invariance Paradigm in Fuzzy Adaptive DSC Design of Large-Scale Nonlinear Input-Constrained Systems. *Lv, M., +, TSMC Feb. 2021 1035-1045*
- Tracking Flight Control of Quadrotor Based on Disturbance Observer. *Chen, M., +, TSMC March 2021 1414-1423*
- Twofold Sliding Controller Design for Uncertain Switched Nonlinear Systems. *Aghababa, M.P., TSMC Feb. 2021 1203-1214*
- Unknown Dynamics Estimator-Based Output-Feedback Control for Nonlinear Pure-Feedback Systems. *Na, J., +, TSMC June 2021 3832-3843*
- Variable Cut-Off Frequency Algorithm-Based Nonlinear Position Controller for Magnetic Levitation System Applications. *Kim, S., +, TSMC July 2021 4599-4605*
- Vibration and Position Control of Overhead Crane With Three-Dimensional Variable Length Cable Subject to Input Amplitude and Rate Constraints. *Xing, X., +, TSMC July 2021 4127-4138*
- Visual Trajectory Tracking of Wheeled Mobile Robots With Uncalibrated Camera Extrinsic Parameters. *Zhang, K., +, TSMC Nov. 2021 7191-7200*
- Adaptive estimation**
- Adaptive Estimation of Time-Varying Parameters With Application to Roto-Magnet Plant. *Na, J., +, TSMC Feb. 2021 731-741*
- Adaptive filters**
- Logarithmic Hyperbolic Cosine Adaptive Filter and Its Performance Analysis. *Wang, S., +, TSMC April 2021 2512-2524*
- Adaptive Kalman filters**
- Event-Based Distributed Adaptive Kalman Filtering With Unknown Covariance of Process Noises. *Mao, J., +, TSMC Oct. 2021 6170-6182*
- Robust Particle Filtering With Time-Varying Model Uncertainty and Inaccurate Noise Covariance Matrix. *Li, W., +, TSMC Nov. 2021 7099-7108*
- Adaptive systems**
- Adaptive Backstepping Control for Fractional-Order Nonlinear Systems With External Disturbance and Uncertain Parameters Using Smooth Control. *Li, X., +, TSMC Dec. 2021 7860-7869*
- Adaptive Dynamic Surface Fuzzy Control for State Constrained Time-Delay Nonlinear Nonstrict Feedback Systems With Unknown Control Directions. *Sun, W., +, TSMC Dec. 2021 7423-7434*
- Adaptive Neural Sliding Mode Control of Markov Jump Systems Subject to Malicious Attacks. *Lin, W., +, TSMC Dec. 2021 7870-7881*
- Adaptive Sliding Mode Control for Uncertain Active Suspension Systems With Prescribed Performance. *Liu, Y., +, TSMC Oct. 2021 6414-6422*
- ADP-Based Robust Resilient Control of Partially Unknown Nonlinear Systems via Cooperative Interaction Design. *Huang, X., +, TSMC Dec. 2021 7466-7474*
- Constraint-Based Control Design for Uncertain Underactuated Mechanical System: Leakage-Type Adaptation Mechanism. *Sun, H., +, TSMC Dec. 2021 7663-7674*
- Global Predefined Time and Accuracy Adaptive Neural Network Control for Uncertain Strict-Feedback Systems With Output Constraint and Dead Zone. *Ni, J., +, TSMC Dec. 2021 7903-7918*
- NN-Based Adaptive Tracking Control of Discrete-Time Nonlinear Systems With Actuator Saturation and Event-Triggering Protocol. *Wang, M., +, TSMC Dec. 2021 7613-7621*
- Adhesives**
- Distributed Velocity and Input Constrained Tracking Control of High-Speed Train Systems. *Lin, P., +, TSMC Dec. 2021 7882-7888*
- Aerodynamics**
- Adaptive Nonlinear Hierarchical Control for a Rotorcraft Transporting a Cable-Suspended Payload. *Liang, X., +, TSMC July 2021 4171-4182*
- Distributed Velocity and Input Constrained Tracking Control of High-Speed Train Systems. *Lin, P., +, TSMC Dec. 2021 7882-7888*
- Hybrid PD-Fuzzy and PD Controllers for Trajectory Tracking of a Quadrotor Unmanned Aerial Vehicle: Autopilot Designs and Real-Time Flight Tests. *Santoso, F., +, TSMC March 2021 1817-1829*
- Aerospace components**
- A Robust Hybrid of a Feedback Linearization Technique and an Interval Type-2 Fuzzy Control System for the Flapping Angle Dynamics of a Biomimetic Aircraft. *Santoso, F., +, TSMC Sept. 2021 5664-5673*
- Aerospace computing**
- A Two-Phase Coordinated Planning Approach for Heterogeneous Earth-Observation Resources to Monitor Area Targets. *Deng, M., +, TSMC Oct. 2021 6388-6403*
- Investigating the Flexibility of the MBSE Approach to the Biomass Mission. *Gregory, J., +, TSMC Nov. 2021 6946-6961*
- Aerospace control**
- Event-Triggered Output Regulation for Networked Flight Control System Based on an Asynchronous Switched System Approach. *Li, L., +, TSMC Dec. 2021 7675-7684*
- High-Precision Attitude Tracking Control of Space Manipulator System Under Multiple Disturbances. *Qiao, J., +, TSMC July 2021 4274-4284*
- Aerospace electronics**
- Event-Triggered Output Regulation for Networked Flight Control System Based on an Asynchronous Switched System Approach. *Li, L., +, TSMC Dec. 2021 7675-7684*
- Air accidents**
- Premature Aircraft Maintenance: A Matter of Cost or Risk?. *Safaei, N., TSMC Feb. 2021 1064-1074*
- Aircraft**
- A Robust Hybrid of a Feedback Linearization Technique and an Interval Type-2 Fuzzy Control System for the Flapping Angle Dynamics of a Biomimetic Aircraft. *Santoso, F., +, TSMC Sept. 2021 5664-5673*
- Event-Triggered Output Regulation for Networked Flight Control System Based on an Asynchronous Switched System Approach. *Li, L., +, TSMC Dec. 2021 7675-7684*
- On the Principle and Applications of Conditional Disturbance Negation. *Pu, Z., +, TSMC Nov. 2021 6757-6767*
- Aircraft control**
- A Control-Theoretic Study on Iterative Solution to Control Allocation for Over-Actuated Aircraft. *Cui, L., +, TSMC June 2021 3429-3439*
- Adaptive Nonlinear Hierarchical Control for a Rotorcraft Transporting a Cable-Suspended Payload. *Liang, X., +, TSMC July 2021 4171-4182*
- Adaptive Path Following Control of Unmanned Surface Vehicles Considering Environmental Disturbances and System Constraints. *Liu, Z., +, TSMC Jan. 2021 339-353*
- Attitude Exponential Stabilization Control of Rigid Bodies via Disturbance Observer. *Xiao, B., +, TSMC May 2021 2751-2759*
- Hybrid PD-Fuzzy and PD Controllers for Trajectory Tracking of a Quadrotor Unmanned Aerial Vehicle: Autopilot Designs and Real-Time Flight Tests. *Santoso, F., +, TSMC March 2021 1817-1829*
- Interval Type-2 FNN-Based Quantized Tracking Control for Hypersonic Flight Vehicles With Prescribed Performance. *Gao, Y., +, TSMC March 2021 1981-1993*

- On the Principle and Applications of Conditional Disturbance Negation. *Pu, Z.*, +, *TSMC Nov. 2021 6757-6767*
- Output Tracking of Uncertain Nonminimum Phase Systems by Experience Replay. *Ye, L.*, +, *TSMC May 2021 3159-3167*
- Robust Adaptive Neural Control of Nonminimum Phase Hypersonic Vehicle Model. *Xu, B.*, +, *TSMC Feb. 2021 1107-1115*
- Robust Time-Varying Formation Control for Tail-Sitters in Flight Mode Transitions. *Liu, D.*, +, *TSMC July 2021 4102-4111*
- Tracking Flight Control of Quadrotor Based on Disturbance Observer. *Chen, M.*, +, *TSMC March 2021 1414-1423*
- Visual Servoing of a Flexible Aerial Refueling Boom With an Eye-in-Hand Camera. *Cui, L.*, +, *TSMC Oct. 2021 6282-6292*
- Aircraft maintenance**
- Premature Aircraft Maintenance: A Matter of Cost or Risk?. *Safaei, N.*, *TSMC Feb. 2021 1064-1074*
- Algebra**
- Event-Triggered Control for Output Regulation of Probabilistic Logical Systems With Delays. *He, J.*, +, *TSMC Nov. 2021 6842-6851*
- Analytical models**
- Composite Decision Makers in the Graph Model for Conflict Resolution: Hesitant Fuzzy Preference Modeling. *Wu, N.*, +, *TSMC Dec. 2021 7889-7902*
- Android (operating system)**
- A Lightweight On-Device Detection Method for Android Malware. *Yuan, W.*, +, *TSMC Sept. 2021 5600-5611*
- Ant colony optimization**
- A Chaotic Ant Colony Optimized Link Prediction Algorithm. *Cao, Z.*, +, *TSMC Sept. 2021 5274-5288*
- An Intelligent Cloud Workflow Scheduling System With Time Estimation and Adaptive Ant Colony Optimization. *Jia, Y.*, +, *TSMC Jan. 2021 634-649*
- Approximation algorithms**
- Minimum Dominating Set of Multiplex Networks: Definition, Application, and Identification. *Zhao, D.*, +, *TSMC Dec. 2021 7823-7837*
- Approximation theory**
- A Finite-Time Distributed Optimization Algorithm for Economic Dispatch in Smart Grids. *Mao, S.*, +, *TSMC April 2021 2068-2079*
- Adaptive Neural Network Control Design for Uncertain Nonstrict Feedback Nonlinear System With State Constraints. *Ma, L.*, +, *TSMC June 2021 3678-3686*
- Adaptive Type-2 FNN-Based Dynamic Sliding Mode Control of DC–DC Boost Converters. *Wang, J.*, +, *TSMC April 2021 2246-2257*
- An Effective Data-Driven Cloud Resource Procurement Scheme With Personalized Reserve Prices. *Wu, X.*, +, *TSMC Aug. 2021 4693-4705*
- Asymptotically Efficient Recursive Identification of FIR Systems With Binary-Valued Observations. *Zhang, H.*, +, *TSMC May 2021 2687-2700*
- Distance-Preserving Vector Space Embedding for Consensus Learning. *Nienkotter, A.*, +, *TSMC Feb. 2021 1244-1257*
- Policy-Iteration-Based Learning for Nonlinear Player Game Systems With Constrained Inputs. *Mu, C.*, +, *TSMC Oct. 2021 6488-6502*
- Random Sleep Scheme-Based Distributed Optimization Algorithm Over Unbalanced Time-Varying Networks. *Li, H.*, +, *TSMC Aug. 2021 5244-5253*
- Artificial intelligence**
- Adaptive Dynamic Programming for Control: A Survey and Recent Advances. *Liu, D.*, +, *TSMC Jan. 2021 142-160*
- Design and Analysis of a Human–Machine Interaction System for Researching Human’s Dynamic Emotion. *Sun, X.*, +, *TSMC Oct. 2021 6111-6121*
- The Graph Model for Conflict Resolution and Decision Support. *Hipel, K.W.*, +, *TSMC Jan. 2021 131-141*
- Artificial neural networks**
- Adaptive Neural Sliding Mode Control of Markov Jump Systems Subject to Malicious Attacks. *Lin, W.*, +, *TSMC Dec. 2021 7870-7881*
- Event-Triggered Optimal Control for Discrete-Time Switched Nonlinear Systems With Constrained Control Input. *Han, X.*, +, *TSMC Dec. 2021 7850-7859*
- NN-Based Adaptive Tracking Control of Discrete-Time Nonlinear Systems With Actuator Saturation and Event-Triggering Protocol. *Wang, M.*, +, *TSMC Dec. 2021 7613-7621*
- Reinforcement Learning Control of a Flexible Two-Link Manipulator: An Experimental Investigation. *He, W.*, +, *TSMC Dec. 2021 7326-7336*
- Serial-Parallel Estimation Model-Based Sliding Mode Control of MEMS Gyroscopes. *Zhang, R.*, +, *TSMC Dec. 2021 7764-7775*
- Artificial satellites**
- Attitude Exponential Stabilization Control of Rigid Bodies via Disturbance Observer. *Xiao, B.*, +, *TSMC May 2021 2751-2759*
- High-Precision Attitude Tracking Control of Space Manipulator System Under Multiple Disturbances. *Qiao, J.*, +, *TSMC July 2021 4274-4284*
- Asymptotic stability**
- A Dynamic Event-Triggered Approach to H_∞ Control for Discrete-Time Singularly Perturbed Systems With Time-Delays and Sensor Saturations. *Ma, L.*, +, *TSMC Nov. 2021 6614-6625*
- A New Approach to Characterize Successive Packet Losses in Stochastic Networked Systems. *Hu, Z.*, +, *TSMC Jan. 2021 552-560*
- A Novel Robust Control Method for Motion Control of Uncertain Single-Link Flexible-Joint Manipulator. *Yan, Z.*, +, *TSMC March 2021 1671-1678*
- Adaptive Asymptotic Tracking for a Class of Uncertain Switched Positive Compartmental Models With Application to Anesthesia. *Lv, M.*, +, *TSMC Aug. 2021 4936-4942*
- Admissibilization for Implicit Jump Systems With Mixed Retarded Delays Based on Reciprocally Convex Integral Inequality and Barbalat’s Lemma. *Zhuang, G.*, +, *TSMC Nov. 2021 6808-6818*
- Almost Sure Stability of Markov Jump Systems With Persistent Dwell Time Switching. *Li, S.*, +, *TSMC Nov. 2021 6681-6690*
- An Efficient Hybrid Control Strategy for Restraining Rumor Spreading. *Ding, L.*, +, *TSMC Nov. 2021 6779-6791*
- An Improved Impulsive Control Approach for Cluster Synchronization of Complex Networks With Parameter Mismatches. *Wang, X.*, +, *TSMC April 2021 2561-2570*
- An Input Delay Approach to Interval Type-2 Fuzzy Exponential Stabilization for Nonlinear Unreliable Networked Sampled-Data Control Systems. *Du, Z.*, +, *TSMC June 2021 3488-3497*
- Asymptotic Stability and Synchronization of Fractional-Order Neural Networks With Unbounded Time-Varying Delays. *Zhang, F.*, +, *TSMC Sept. 2021 5547-5556*
- Attitude Exponential Stabilization Control of Rigid Bodies via Disturbance Observer. *Xiao, B.*, +, *TSMC May 2021 2751-2759*
- Bandwidth Allocation-Based Switched Dynamic Triggering Control Against DoS Attacks. *Hu, S.*, +, *TSMC Oct. 2021 6050-6061*
- Boundary Output Constrained Control for a Flexible Beam System With Prescribed Performance. *Zhao, Z.*, +, *TSMC Aug. 2021 4650-4658*
- Consensus of Multiagent Systems With Delayed Node Dynamics and Time-Varying Coupling. *Jia, Q.*, +, *TSMC June 2021 3320-3329*
- Control of Discrete-Time Stochastic Systems With Packet Loss by Event-Triggered Approach. *Hu, Z.*, +, *TSMC Feb. 2021 755-764*
- Cooperative Target Enclosing Control of Multiple Mobile Robots Subject to Input Disturbances. *Yu, X.*, +, *TSMC June 2021 3440-3449*
- Dissipativity Analysis of Switched Gene Regulatory Networks Actuated by Persistent Dwell-Time Switching Strategy. *Shen, H.*, +, *TSMC Sept. 2021 5535-5546*
- Dissipativity-Based Two-Dimensional Control and Filtering for a Class of Switched Systems. *Yang, R.*, +, *TSMC May 2021 2737-2750*
- Distributed Control of Networked Nonlinear Systems via Interconnected Takagi–Sugeno Fuzzy Systems With Nonlinear Consequent. *Araujo, R.F.*, +, *TSMC Aug. 2021 4858-4867*
- Estimate-Based Dynamic Event-Triggered Output Feedback Control of Networked Nonlinear Uncertain Systems. *Sun, J.*, +, *TSMC May 2021 3148-3158*
- Event-Driven Fault Detection for Discrete-Time Interval Type-2 Fuzzy Systems. *Pan, Y.*, +, *TSMC Aug. 2021 4959-4968*
- Event-Triggered H_∞ Filtering for Networked Switched Systems With Packet Disorders. *Qi, Y.*, +, *TSMC May 2021 2847-2859*

- Event-Triggered Sliding Mode Control of Switched Neural Networks With Mode-Dependent Average Dwell Time. *Yan, H.*, +, *TSMC Feb. 2021 1233-1243*
- Exponential Stability of Markovian Jumping Systems via Adaptive Sliding Mode Control. *Xu, C.*, +, *TSMC Feb. 2021 954-964*
- Finite-Time State Estimation for Delayed Neural Networks With Redundant Delayed Channels. *Zhao, Z.*, +, *TSMC Jan. 2021 441-451*
- Finite-Time Synchronization for Switched Neural Networks via Quantized Feedback Control. *Guan, C.*, +, *TSMC May 2021 2873-2884*
- Finite-Time Synchronization of Memristor-Based Recurrent Neural Networks With Inertial Items and Mixed Delays. *Lu, Z.*, +, *TSMC May 2021 2701-2711*
- Fuzzy-Affine-Model-Based Output Feedback Dynamic Sliding Mode Controller Design of Nonlinear Systems. *Ji, W.*, +, *TSMC March 2021 1652-1661*
- Global Event-Triggered Output Feedback Stabilization of a Class of Nonlinear Systems. *Cheng, Y.*, +, *TSMC July 2021 4040-4047*
- Global Predefined Time and Accuracy Adaptive Neural Network Control for Uncertain Strict-Feedback Systems With Output Constraint and Dead Zone. *Ni, J.*, +, *TSMC Dec. 2021 7903-7918*
- H_∞ Filtering of Repeated Scalar Nonlinear Systems: Event-Triggered Communication Case. *Li, J.*, +, *TSMC June 2021 3392-3400*
- Improved Stability Criteria for Discrete-Time Switched T-S Fuzzy Systems. *Fei, Z.*, +, *TSMC Feb. 2021 712-720*
- Input-Output Finite-Time Reliable Static Output Control of Time-Varying System With Input Delay. *Chen, M.*, +, *TSMC Feb. 2021 1334-1344*
- Input-to-State Stability of Nonlinear Systems Using Observer-Based Event-Triggered Impulsive Control. *Li, X.*, +, *TSMC Nov. 2021 6892-6900*
- Iterative Learning Control for Multiphase Batch Processes With Asynchronous Switching. *Wang, L.*, +, *TSMC April 2021 2536-2549*
- Lyapunov Control Method for Mismatched Uncertainty and Gain Variation Compensation in Switched Systems. *Aghababa, M.P.*, *TSMC July 2021 4227-4237*
- Multiple ψ -Type Stability of Cohen-Grossberg Neural Networks With Unbounded Time-Varying Delays. *Zhang, F.*, +, *TSMC Jan. 2021 521-531*
- New Stability Conditions for Switched Linear Systems: A Reverse-Timer-Dependent Multiple Discontinuous Lyapunov Function Approach. *Li, Y.*, +, *TSMC Oct. 2021 6564-6575*
- Nonfragile Consensus of Multiagent Systems Based on Memory Sampled-Data Control. *Ge, C.*, +, *TSMC Jan. 2021 391-399*
- Optimal Load Frequency Control for Networked Power Systems Based on Distributed Economic MPC. *Jia, Y.*, +, *TSMC April 2021 2123-2133*
- Output-Feedback Adaptive Control of Nonlinear Systems With Input-Output-Dependent Lower-Triangular Growth Rate: A Logic-Based Switching Approach. *Huang, C.*, +, *TSMC Aug. 2021 4804-4813*
- Partial-Nodes-Based Scalable H_∞ -Consensus Filtering With Censored Measurements Over Sensor Networks. *Han, F.*, +, *TSMC March 2021 1892-1903*
- Passivity-Based Fuzzy ISMC for Wind Energy Conversion Systems With PMSG. *Subramaniam, R.*, +, *TSMC April 2021 2212-2220*
- Quantized Static Output Feedback Fuzzy Tracking Control for Discrete-Time Nonlinear Networked Systems With Asynchronous Event-Triggered Constraints. *Li, Z.*, +, *TSMC June 2021 3820-3831*
- Quasi-Synchronization of Delayed Memristive Neural Networks via a Hybrid Impulsive Control. *Zhou, Y.*, +, *TSMC March 2021 1954-1965*
- Receding Horizon Synchronization of Delayed Neural Networks Using a Novel Inequality on Quadratic Polynomial Functions. *Lu, C.*, +, *TSMC Oct. 2021 6085-6095*
- Reduced-Order Observer-Based Adaptive Fuzzy Tracking Control Scheme of Stochastic Switched Nonlinear Systems. *Niu, B.*, +, *TSMC July 2021 4566-4578*
- Relay Tracking Controller Design for Multiagent Systems With Varying Number of Agents. *Dong, L.*, +, *TSMC Oct. 2021 6147-6158*
- Reliable Fuzzy H_∞ Control for Permanent Magnet Synchronous Motor Against Stochastic Actuator Faults. *Vadivel, R.*, +, *TSMC April 2021 2232-2245*
- Resilient H_∞ Filtering for Event-Triggered Networked Systems Under Non-periodic DoS Jamming Attacks. *Hu, S.*, +, *TSMC March 2021 1392-1403*
- RISE-Based Integrated Motion Control of Autonomous Ground Vehicles With Asymptotic Prescribed Performance. *Hu, C.*, +, *TSMC Sept. 2021 5336-5348*
- Robust Exponential Stability Analysis for Stochastic Systems With Actuator Faults Using Improved Weighted Relaxed Integral Inequality. *Gnaneswaran, N.*, +, *TSMC June 2021 3346-3357*
- Robust Fixed-Time Consensus Tracking Control of High-Order Multiple Nonholonomic Systems. *Shi, S.*, +, *TSMC March 2021 1869-1880*
- Robust H_∞ Sliding Mode Controller Design of a Class of Time-Delayed Discrete Conic-Type Nonlinear Systems. *He, S.*, +, *TSMC Feb. 2021 885-892*
- Robust Resilient Control Based on Multi-Approximator for the Uncertain Turbofan System With Unmeasured States and Disturbances. *Li, Y.*, +, *TSMC Oct. 2021 6040-6049*
- Second-Order Sliding Mode Controller Design Subject to an Upper-Triangular Structure. *Mei, K.*, +, *TSMC Jan. 2021 497-507*
- Security Control for T-S Fuzzy Systems With Adaptive Event-Triggered Mechanism and Multiple Cyber-Attacks. *Liu, J.*, +, *TSMC Oct. 2021 6544-6554*
- Skill Learning From Human Demonstrations Using Dynamical Regressive Models for Multitask Applications. *Dutta, S.*, +, *TSMC Jan. 2021 659-672*
- Stability Analysis for Input Saturated Discrete-Time Switched Systems With Average Dwell-Time. *Wang, Q.*, +, *TSMC Jan. 2021 412-419*
- Stability and Stabilization for T-S Fuzzy Large-Scale Interconnected Power System With Wind Farm via Sampled-Data Control. *Shanmugam, L.*, +, *TSMC April 2021 2134-2144*
- Stability Criteria for Impulsive Stochastic Functional Differential Systems With Distributed-Delay Dependent Impulsive Effects. *Hu, W.*, +, *TSMC March 2021 2027-2032*
- Stability-Guaranteed Variable Impedance Control of Robots Based on Approximate Dynamic Inversion. *Sun, T.*, +, *TSMC July 2021 4193-4200*
- Stabilization of Networked Control Systems With Hybrid-Driven Mechanism and Probabilistic Cyber Attacks. *Liu, J.*, +, *TSMC Feb. 2021 943-953*
- Stabilization of Stochastic Retarded Systems Based on Sampled-Data Feedback Control. *Yang, X.*, +, *TSMC Sept. 2021 5895-5904*
- Strict Lyapunov Functions for Homogeneous Time-Varying Systems. *Zhang, B.*, +, *TSMC March 2021 1994-2002*
- Takagi-Sugeno Model-Based Reliable Sliding Mode Control of Descriptor Systems With Semi-Markov Parameters: Average Dwell Time Approach. *Jiang, B.*, +, *TSMC March 2021 1549-1558*
- Vibration and Position Control of Overhead Crane With Three-Dimensional Variable Length Cable Subject to Input Amplitude and Rate Constraints. *Xing, X.*, +, *TSMC July 2021 4127-4138*
- Asynchronous generators**
- Fuzzy Sampled-Data Control for DFIG-Based Wind Turbine With Stochastic Actuator Failures. *Sharmila, V.*, +, *TSMC April 2021 2199-2211*
- Atmospheric modeling**
- Event-Triggered Output Regulation for Networked Flight Control System Based on an Asynchronous Switched System Approach. *Li, L.*, +, *TSMC Dec. 2021 7675-7684*
- Attitude control**
- Adaptive Fault-Tolerant Control for Attitude Tracking of Flexible Spacecraft With Limited Data Transmission. *Liu, Q.*, +, *TSMC July 2021 4400-4408*
- Attitude Exponential Stabilization Control of Rigid Bodies via Disturbance Observer. *Xiao, B.*, +, *TSMC May 2021 2751-2759*
- Command Filtered Backstepping-Based Attitude Containment Control for Spacecraft Formation. *Zhao, L.*, +, *TSMC Feb. 2021 1278-1287*
- Disturbance Observer-Based Adaptive Finite-Time Attitude Tracking Control for Rigid Spacecraft. *Zhang, J.*, +, *TSMC Nov. 2021 6606-6613*
- Fully Distributed Finite-Time Consensus of Directed Multiquadcopter Systems via Pinning Control. *Zhou, Y.*, +, *TSMC Aug. 2021 5080-5089*
- Further Results on Fixed-Time Stabilization and Tracking Control of a Marine Surface Ship Subjected to Output Constraints. *Zhang, Z.*, +, *TSMC Sept. 2021 5300-5310*
- High-Precision Attitude Tracking Control of Space Manipulator System Under Multiple Disturbances. *Qiao, J.*, +, *TSMC July 2021 4274-4284*

Robust Distributed Formation Controller Design for a Group of Unmanned Underwater Vehicles. *Liu, H., +, TSMC Feb. 2021 1215-1223*

Robust Time-Varying Formation Control for Tail-Sitters in Flight Mode Transitions. *Liu, D., +, TSMC July 2021 4102-4111*

Visual Servoing of a Flexible Aerial Refueling Boom With an Eye-in-Hand Camera. *Cui, L., +, TSMC Oct. 2021 6282-6292*

Authorization

Secure Conflicts Avoidance in Multidomain Environments: A Distributed Approach. *Yang, B., +, TSMC Sept. 2021 5478-5489*

Using Conditional Random Fields to Optimize a Self-Adaptive Bell-LaPadula Model in Control Systems. *Yang, L., +, TSMC July 2021 4505-4519*

Automatic optical inspection

Multialgorithm Fusion Image Processing for High Speed Railway Dropper Failure-Defect Detection. *Tan, P., +, TSMC July 2021 4466-4478*

Quality Inspection Based on Quadrangular Object Detection for Deep Aperture Component. *Zhang, J., +, TSMC Oct. 2021 5938-5948*

Automation

Robust Global Coordination of Networked Systems With Input Saturation and External Disturbances. *Wang, X., +, TSMC Dec. 2021 7788-7800*

Automobiles

Adaptive Vehicle Stability Control of Half-Car Active Suspension Systems With Partial Performance Constraints. *Zeng, Q., +, TSMC March 2021 1704-1714*

Autonomous aerial vehicles

A Two-Phase Coordinated Planning Approach for Heterogeneous Earth-Observation Resources to Monitor Area Targets. *Deng, M., +, TSMC Oct. 2021 6388-6403*

Adaptive Neural Discrete-Time Fractional-Order Control for a UAV System With Prescribed Performance Using Disturbance Observer. *Shao, S., +, TSMC Feb. 2021 742-754*

Hybrid PD-Fuzzy and PD Controllers for Trajectory Tracking of a Quadrotor Unmanned Aerial Vehicle: Autopilot Designs and Real-Time Flight Tests. *Santoso, F., +, TSMC March 2021 1817-1829*

Range-Based Reactive Deployment of Autonomous Drones for Optimal Coverage in Disaster Areas. *Savkin, A.V., +, TSMC July 2021 4606-4610*

Robust Time-Varying Formation Control for Tail-Sitters in Flight Mode Transitions. *Liu, D., +, TSMC July 2021 4102-4111*

Autonomous underwater vehicles

Coordinated Control of Underwater Biomimetic Vehicle-Manipulator System for Free Floating Autonomous Manipulation. *Cai, M., +, TSMC Aug. 2021 4793-4803*

Distributed Lyapunov-Based Model Predictive Formation Tracking Control for Autonomous Underwater Vehicles Subject to Disturbances. *Wei, H., +, TSMC Aug. 2021 5198-5208*

Quantized Sliding Mode Control of Unmanned Marine Vehicles: Various Thruster Faults Tolerated With a Unified Model. *Hao, L., +, TSMC March 2021 2012-2026*

Tracking Controllers to Chase a Target Using Multiple Autonomous Underwater Vehicles Measuring the Sound Emitted From the Target. *Kim, J., TSMC July 2021 4579-4587*

Trajectory Tracking Control of Autonomous Underwater Vehicle With Unknown Parameters and External Disturbances. *Yang, X., +, TSMC Feb. 2021 1054-1063*

Underwater Target Tracking Control of an Untethered Robotic Fish With a Camera Stabilizer. *Yu, J., +, TSMC Oct. 2021 6523-6534*

Avionics

Investigating the Flexibility of the MBSE Approach to the Biomass Mission. *Gregory, J., +, TSMC Nov. 2021 6946-6961*

B

Backpropagation

A Generalized Golden Rule Representative Value for Multiple-Criteria Decision Analysis. *Liu, Z., +, TSMC May 2021 3193-3204*

Bidirectional Associative Memories: Unsupervised Hebbian Learning to Bidirectional Backpropagation. *Kosko, B., TSMC Jan. 2021 103-115*

Backstepping

Adaptive Backstepping Control for Fractional-Order Nonlinear Systems With External Disturbance and Uncertain Parameters Using Smooth Control. *Li, X., +, TSMC Dec. 2021 7860-7869*

Bandwidth allocation

Bandwidth Allocation-Based Switched Dynamic Triggering Control Against DoS Attacks. *Hu, S., +, TSMC Oct. 2021 6050-6061*

Batch processing (industrial)

Iterative Learning Control for Multiphase Batch Processes With Asynchronous Switching. *Wang, L., +, TSMC April 2021 2536-2549*

Robust Model Predictive Iterative Learning Control for Iteration-Varying-Reference Batch Processes. *Liu, X., +, TSMC July 2021 4238-4250*

Two-Dimensional Iterative Learning Model Predictive Control for Batch Processes: A New State Space Model Compensation Approach. *Zhang, R., +, TSMC Feb. 2021 833-841*

Battery storage plants

Power Compensation of Network Losses in a Microgrid With BESS by Distributed Consensus Algorithm. *Sun, Y., +, TSMC April 2021 2091-2100*

Toward Optimal Risk-Averse Configuration for HESS With CGANs-Based PV Scenario Generation. *Yang, X., +, TSMC March 2021 1779-1793*

Bayes methods

Decentralized Consensus Decision-Making for Cybersecurity Protection in Multimicrogrid Systems. *Hu, B., +, TSMC April 2021 2187-2198*

Distributed Covariance Intersection Fusion Estimation With Delayed Measurements and Unknown Inputs. *Yu, D., +, TSMC Aug. 2021 5165-5173*

Evidential Reasoning Rule-Based Decision Support System for Predicting ICU Admission and In-Hospital Death of Trauma. *Kong, G., +, TSMC Nov. 2021 7131-7142*

Robust Particle Filtering With Time-Varying Model Uncertainty and Inaccurate Noise Covariance Matrix. *Li, W., +, TSMC Nov. 2021 7099-7108*

Behavioral sciences computing

Crowd Behavior Simulation With Emotional Contagion in Unexpected Multihazard Situations. *Xu, M., +, TSMC March 2021 1567-1581*

Evolutionary Multiagent Transfer Learning With Model-Based Opponent Behavior Prediction. *Hou, Y., +, TSMC Oct. 2021 5962-5976*

Belief networks

A Survey of Belief Rule-Base Expert System. *Zhou, Z., +, TSMC Aug. 2021 4944-4958*

Evidential Reasoning Rule-Based Decision Support System for Predicting ICU Admission and In-Hospital Death of Trauma. *Kong, G., +, TSMC Nov. 2021 7131-7142*

Bifurcation

Exponential Chaotic Model for Generating Robust Chaos. *Hua, Z., +, TSMC June 2021 3713-3724*

Fractional-Order PID Controller Synthesis for Bifurcation of Fractional-Order Small-World Networks. *Xiao, M., +, TSMC July 2021 4334-4346*

Big Data

A Micro-Extended Belief Rule-Based System for Big Data Multiclass Classification Problems. *Yang, L., +, TSMC Jan. 2021 420-440*

Equipment Health Assessment Based on Improved Incremental Support Vector Data Description. *Zhang, L., +, TSMC May 2021 3205-3216*

KNN-BLOCK DBSCAN: Fast Clustering for Large-Scale Data. *Chen, Y., +, TSMC June 2021 3939-3953*

Non-Negative Latent Factor Model Based on β -Divergence for Recommender Systems. *Xin, L., +, TSMC Aug. 2021 4612-4623*

Bioelectric potentials

Ensemble Learning Based Brain-Computer Interface System for Ground Vehicle Control. *Zhuang, J., +, TSMC Sept. 2021 5392-5404*

Biomechanics

A Wearable Ultrasound System for Sensing Muscular Morphological Deformations. *Yang, X., +, TSMC June 2021 3370-3379*

Muscle-Synergies-Based Neuromuscular Control for Motion Learning and Generalization of a Musculoskeletal System. *Chen, J., +, TSMC June 2021 3993-4006*

Biomedical transducers

A Wearable Ultrasound System for Sensing Muscular Morphological Deformations. *Yang, X., +, TSMC June 2021 3370-3379*

Biomedical ultrasonics

A Wearable Ultrasound System for Sensing Muscular Morphological Deformations. *Yang, X., +, TSMC June 2021 3370-3379*

Biometrics (access control)

A Novel Multicamera System for High-Speed Touchless Palm Recognition. *Liang, X., +, TSMC March 2021 1534-1548*

Biomimetics

A Robust Hybrid of a Feedback Linearization Technique and an Interval Type-2 Fuzzy Control System for the Flapping Angle Dynamics of a Biomimetic Aircraft. *Santoso, F., +, TSMC Sept. 2021 5664-5673*

Coordinated Control of Underwater Biomimetic Vehicle–Manipulator System for Free Floating Autonomous Manipulation. *Cai, M., +, TSMC Aug. 2021 4793-4803*

Design and Control of a Two-Motor-Actuated Tuna-Inspired Robot System. *Du, S., +, TSMC Aug. 2021 4670-4680*

Blockchains

Decentralized Consensus Decision-Making for Cybersecurity Protection in Multimicrogrid Systems. *Hu, B., +, TSMC April 2021 2187-2198*

Proof of Previous Transactions (PoPT): An Efficient Approach to Consensus for JCLedger. *Xiang, F., +, TSMC April 2021 2415-2424*

Boltzmann machines

Neural Modeling With Guaranteed Input–Output Probability Distributions. *Yu, W., +, TSMC Nov. 2021 6660-6668*

Boolean algebra

Asynchronous Stabilization of Boolean Control Networks With Stochastic Switched Signals. *Fang, M., +, TSMC April 2021 2425-2432*

Stabilization and Finite-Time Stabilization of Probabilistic Boolean Control Networks. *Wang, L., +, TSMC March 2021 1559-1566*

Topological Structure, Reachability, and Stabilization of Constrained Boolean Control Networks via Event-Triggered Control. *Lin, L., +, TSMC June 2021 3565-3574*

Boolean functions

Asynchronous Stabilization of Boolean Control Networks With Stochastic Switched Signals. *Fang, M., +, TSMC April 2021 2425-2432*

Brain

Classification of EEG Signals on VEP-Based BCI Systems With Broad Learning. *Gao, Z., +, TSMC Nov. 2021 7143-7151*

Brain-computer interfaces

Classification of EEG Signals on VEP-Based BCI Systems With Broad Learning. *Gao, Z., +, TSMC Nov. 2021 7143-7151*

Direct-Sense Brain–Computer Interfaces and Wearable Computers. *Lin, C., +, TSMC Jan. 2021 298-312*

Ensemble Learning Based Brain–Computer Interface System for Ground Vehicle Control. *Zhuang, J., +, TSMC Sept. 2021 5392-5404*

On the Utility of Power Spectral Techniques With Feature Selection Techniques for Effective Mental Task Classification in Noninvasive BCI. *Gupta, A., +, TSMC May 2021 3080-3092*

Budgeting

A Heuristic Procedure for Selecting the Best Feasible Design in the Presence of Stochastic Constraints. *Choi, S.H., +, TSMC Feb. 2021 1016-1026*

Buffer storage

State Estimation for Networked Systems With Markov Driven Transmission and Buffer Constraint. *Xu, Y., +, TSMC Dec. 2021 7727-7734*

Buoyancy

Model Predictive Control-Based Depth Control in Gliding Motion of a Gliding Robotic Dolphin. *Wang, J., +, TSMC Sept. 2021 5466-5477*

C**Cables (mechanical)**

Vibration and Position Control of Overhead Crane With Three-Dimensional Variable Length Cable Subject to Input Amplitude and Rate Constraints. *Xing, X., +, TSMC July 2021 4127-4138*

Calculus

Adaptive Backstepping Control for Fractional-Order Nonlinear Systems With External Disturbance and Uncertain Parameters Using Smooth Control. *Li, X., +, TSMC Dec. 2021 7860-7869*

Cameras

A Novel Multicamera System for High-Speed Touchless Palm Recognition. *Liang, X., +, TSMC March 2021 1534-1548*

An Efficient Method to Recover Relative Pose for Vehicle-Mounted Cameras Under Planar Motion. *Zhang, X., +, TSMC Feb. 2021 1138-1148*

Complex Workpiece Positioning System With Nonrigid Registration Method for 6-DoFs Automatic Spray Painting Robot. *Gao, H., +, TSMC Dec. 2021 7305-7313*

Multialgorithm Fusion Image Processing for High Speed Railway Dropper Failure–Defect Detection. *Tan, P., +, TSMC July 2021 4466-4478*

Visual Regulation of Differential-Drive Mobile Robots: A Nonadaptive Switching Approach. *Lu, Q., +, TSMC Nov. 2021 6874-6884*

Visual Trajectory Tracking of Wheeled Mobile Robots With Uncalibrated Camera Extrinsic Parameters. *Zhang, K., +, TSMC Nov. 2021 7191-7200*

Cardiology

Adaptive Pulsatile Plane for Robust Noncontact Heart Rate Monitoring. *Tran, Q., +, TSMC Sept. 2021 5587-5599*

Cascade control

Underwater Target Tracking Control of an Untethered Robotic Fish With a Camera Stabilizer. *Yu, J., +, TSMC Oct. 2021 6523-6534*

Cascade systems

Fault-Tolerant Control for Dynamic Positioning Vessel With Thruster Faults Based on the Neural Modified Extended State Observer. *Yu, W., +, TSMC Sept. 2021 5905-5917*

Case-based reasoning

A Micro-Extended Belief Rule-Based System for Big Data Multiclass Classification Problems. *Yang, L., +, TSMC Jan. 2021 420-440*

Cellular radio

Toward Pre-Empted EV Charging Recommendation Through V2V-Based Reservation System. *Cao, Y., +, TSMC May 2021 3026-3039*

Channel estimation

Resilient State Estimation of Cyber-Physical System With Multichannel Transmission Under DoS Attack. *Yuan, H., +, TSMC Nov. 2021 6926-6937*

Chaos

A Chaotic Ant Colony Optimized Link Prediction Algorithm. *Cao, Z., +, TSMC Sept. 2021 5274-5288*

Adaptively Synchronize the Derivative Coupled Complex Networks With Proportional Delay. *Tang, Z., +, TSMC Aug. 2021 4969-4979*

Chaotic Local Search-Based Differential Evolution Algorithms for Optimization. *Gao, S., +, TSMC June 2021 3954-3967*

Exponential Chaotic Model for Generating Robust Chaos. *Hua, Z., +, TSMC June 2021 3713-3724*

Integrated Synchronization and Anti-Disturbance Control Design for Fuzzy Model-Based Multiweighted Complex Network. *Kaviarasan, B., +, TSMC Oct. 2021 6330-6341*

Chemical analysis

Uncertainty-Aware Fusion of Probabilistic Classifiers for Improved Transformer Diagnostics. *Aizpurua, J.I., +, TSMC Jan. 2021 621-633*

Chemical reactors

Adaptive Finite-Time Tracking Control for Continuous Stirred Tank Reactor With Time-Varying Output Constraint. *Li, D., +, TSMC Sept. 2021 5929-5934*

Chua's circuit

Adaptive Tracking for Uncertain MIMO Nonlinear Systems With Time-Varying Parameters and Bounded Disturbance. *Zhang, Z., +, TSMC July 2021 4479-4491*

Intermittent Control Strategy for Synchronization Analysis of Time-Varying Complex Dynamical Networks. *Wu, Y., +, TSMC May 2021 3251-3262*

Sliding Mode Controller Design for Conic-Type Nonlinear Semi-Markovian Jumping Systems of Time-Delayed Chua's Circuit. *Nie, R., +, TSMC April 2021 2467-2475*

Circuit simulation

Sliding Mode Controller Design for Conic-Type Nonlinear Semi-Markovian Jumping Systems of Time-Delayed Chua's Circuit. *Nie, R., +, TSMC April 2021 2467-2475*

Circuit stability

Sliding-Mode Control for Slow-Sampling Singularly Perturbed Systems Subject to Markov Jump Parameters. *Wang, J., +, TSMC Dec. 2021 7579-7586*

Classification

Word Representation Learning Based on Bidirectional GRUs With Drop Loss for Sentiment Classification. *Sun, X., +, TSMC July 2021 4532-4542*
 YSUY: Your Smartphone Understands You—Using Machine Learning to Address Fundamental Human Needs. *Akmandor, A.O., +, TSMC Dec. 2021 7553-7568*

Climate mitigation

A Three-Level Hierarchical Graph Model for Conflict Resolution. *He, S., +, TSMC March 2021 1424-1433*

Clocks

Quantized Control of Networked Control Systems Under Stochastic Clock Offsets. *Sun, H., +, TSMC May 2021 3004-3013*

Closed loop systems

A Control-Theoretic Study on Iterative Solution to Control Allocation for Over-Actuated Aircraft. *Cui, L., +, TSMC June 2021 3429-3439*

A Dynamic Event-Triggered Approach to H_∞ Control for Discrete-Time Singularly Perturbed Systems With Time-Delays and Sensor Saturations. *Ma, L., +, TSMC Nov. 2021 6614-6625*

A Finite-Time Control for a Pneumatic Cylinder Servo System Based on a Super-Twisting Extended State Observer. *Zhao, L., +, TSMC Feb. 2021 1164-1173*

A Fuzzy Lyapunov Function Approach to Positive L_1 Observer Design for Positive Fuzzy Semi-Markovian Switching Systems With Its Application. *Qi, W., +, TSMC Feb. 2021 775-785*

A New Approach to Characterize Successive Packet Losses in Stochastic Networked Systems. *Hu, Z., +, TSMC Jan. 2021 552-560*

A Novel Finite-Time Control for Nonstrict Feedback Saturated Nonlinear Systems With Tracking Error Constraint. *Sun, K., +, TSMC June 2021 3968-3979*

A Robust Hybrid of a Feedback Linearization Technique and an Interval Type-2 Fuzzy Control System for the Flapping Angle Dynamics of a Biomimetic Aircraft. *Santoso, F., +, TSMC Sept. 2021 5664-5673*

Adaptive Command Filtered Neuro-Fuzzy Control Design for Fractional-Order Nonlinear Systems With Unknown Control Directions and Input Quantization. *Song, S., +, TSMC Nov. 2021 7238-7249*

Adaptive Compensation of Persistent Actuator Failures Using Control-Separation-Based LQ Design. *Wen, L., +, TSMC Aug. 2021 5030-5045*

Adaptive Control of Full-State Constrained High-Order Nonlinear Systems With Time-Varying Powers. *Guo, C., +, TSMC Aug. 2021 5189-5197*

Adaptive Finite-Time Fuzzy Funnell Control for Nonaffine Nonlinear Systems. *Liu, C., +, TSMC May 2021 2894-2903*

Adaptive Finite-Time Saturated Tracking Control for a Class of Partially Known Robots. *Hwang, C., +, TSMC Sept. 2021 5674-5685*

Adaptive Finite-Time Tracking Control for Continuous Stirred Tank Reactor With Time-Varying Output Constraint. *Li, D., +, TSMC Sept. 2021 5929-5934*

Adaptive Fixed-Time Control of Error-Constrained Pure-Feedback Interconnected Nonlinear Systems. *Zhou, Q., +, TSMC Oct. 2021 6369-6380*

Adaptive Fuzzy Full-State and Output-Feedback Control for Uncertain Robots With Output Constraint. *Yu, X., +, TSMC Nov. 2021 6994-7007*

Adaptive Intelligent Control for Input and Output Constrained High-Order Uncertain Nonlinear Systems. *Sun, W., +, TSMC Sept. 2021 5577-5586*

Adaptive Iterative Learning Control for High-Speed Train: A Multi-Agent Approach. *Huang, D., +, TSMC July 2021 4067-4077*

Adaptive Leaderless Consensus Control of Strict-Feedback Nonlinear Multiagent Systems With Unknown Control Directions. *Rezaee, H., +, TSMC Oct. 2021 6435-6444*

Adaptive Neural Discrete-Time Fractional-Order Control for a UAV System With Prescribed Performance Using Disturbance Observer. *Shao, S., +, TSMC Feb. 2021 742-754*

Adaptive Neural Network Control Design for Uncertain Nonstrict Feedback Nonlinear System With State Constraints. *Ma, L., +, TSMC June 2021 3678-3686*

Adaptive Neural Network-Based Finite-Time Tracking Control for Nonstrict Nonaffine MIMO Nonlinear Systems. *Li, S., +, TSMC Aug. 2021 4814-4824*

Adaptive Neural Sliding Mode Control of Markov Jump Systems Subject to Malicious Attacks. *Lin, W., +, TSMC Dec. 2021 7870-7881*

Adaptive Neural Tracking Control Scheme of Switched Stochastic Nonlinear Pure-Feedback Nonlower Triangular Systems. *Niu, B., +, TSMC Feb. 2021 975-986*

Adaptive NN Cooperative Control of Unknown Nonlinear Multiagent Systems With Communication Delays. *Psillakis, H.E., TSMC Sept. 2021 5311-5321*

Adaptive NN Cross Backstepping Control for Nonlinear Systems With Partial Time-Varying State Constraints and Its Applications to Hyper-Chaotic Systems. *Li, D., +, TSMC May 2021 2821-2832*

Adaptive Nonlinear Hierarchical Control for a Rotorcraft Transporting a Cable-Suspended Payload. *Liang, X., +, TSMC July 2021 4171-4182*

Adaptive Quantized Control of Output Feedback Nonlinear Systems With Input Unmodeled Dynamics Based on Backstepping and Small-Gain Method. *Xia, X., +, TSMC Sept. 2021 5686-5697*

Adaptive Tracking for Uncertain MIMO Nonlinear Systems With Time-Varying Parameters and Bounded Disturbance. *Zhang, Z., +, TSMC July 2021 4479-4491*

Adaptive Vehicle Stability Control of Half-Car Active Suspension Systems With Partial Performance Constraints. *Zeng, Q., +, TSMC March 2021 1704-1714*

Admissibilization for Implicit Jump Systems With Mixed Retarded Delays Based on Reciprocally Convex Integral Inequality and Barbalat's Lemma. *Zhuang, G., +, TSMC Nov. 2021 6808-6818*

ADP-Based Robust Resilient Control of Partially Unknown Nonlinear Systems via Cooperative Interaction Design. *Huang, X., +, TSMC Dec. 2021 7466-7474*

An Input Delay Approach to Interval Type-2 Fuzzy Exponential Stabilization for Nonlinear Unreliable Networked Sampled-Data Control Systems. *Du, Z., +, TSMC June 2021 3488-3497*

Annular Domain Finite-Time Connective Control for Large-Scale Systems With Expanding Construction. *Liu, Y., +, TSMC Oct. 2021 6159-6169*

Attitude Exponential Stabilization Control of Rigid Bodies via Disturbance Observer. *Xiao, B., +, TSMC May 2021 2751-2759*

Bandwidth Allocation-Based Switched Dynamic Triggering Control Against DoS Attacks. *Hu, S., +, TSMC Oct. 2021 6050-6061*

Bank of High-Gain Observers in Output Feedback Control: Robustness Analysis Against Measurement Noise. *Esfandiari, K., +, TSMC April 2021 2476-2487*

Boundary Output Constrained Control for a Flexible Beam System With Prescribed Performance. *Zhao, Z., +, TSMC Aug. 2021 4650-4658*

Cluster Event-Triggered Tracking Cooperative and Formation Control for Multivehicle Systems: An Extended Magnification Region Condition. *Wang, B., TSMC May 2021 3229-3239*

Command Filter-Based Adaptive Fuzzy Control for Nonlinear Systems With Unknown Control Directions. *Xia, J., +, TSMC March 2021 1945-1953*

Command Filter-Based Adaptive Prescribed Performance Tracking Control for Stochastic Uncertain Nonlinear Systems. *Sun, W., +, TSMC Oct. 2021 6555-6563*

Control Design for Uncertain Switched Nonlinear Systems: Adaptive Neural Approach. *Liu, Z., +, TSMC April 2021 2322-2331*

Curved Path Following for Unmanned Surface Vehicles With Heading Amendment. *Qu, Y., +, TSMC July 2021 4183-4192*

Data-Driven Output-Feedback LQ Secure Control for Unknown Cyber-Physical Systems Against Sparse Actuator Attacks. *Shen, X., +, TSMC Sept. 2021 5708-5720*

Decentralized Event-Triggered Tracking of a Class of Uncertain Interconnected Nonlinear Systems Using Minimal Function Approximators. *Choi, Y.H., +, TSMC March 2021 1766-1778*

Design of Interval Type-2 Fuzzy-Based Sampled-Data Controller for Nonlinear Systems Using Novel Fuzzy Lyapunov Functional and its Application to PMSM. *Shanmugam, L., +, TSMC Jan. 2021 542-551*

- Design of Observer-Based Event-Triggered Fuzzy ISMC for T-S Fuzzy Model and its Application to PMSG. *Mani, P.*, +, *TSMC April 2021 2221-2231*
- Design of Output-Based Finite-Time Convergent Composite Controller for a Class of Perturbed Second-Order Nonlinear Systems. *Zhu, W.*, +, *TSMC Nov. 2021 6768-6778*
- Distributed Containment Control of MIMO Pure-Feedback Multiagent Systems Using Filter-Driven-Approximation Approach. *Choi, Y.H.*, +, *TSMC Sept. 2021 5490-5502*
- Distributed Containment Maneuvering of Uncertain Multiagent Systems in MIMO Strict-Feedback Form. *Zhang, Y.*, +, *TSMC Feb. 2021 1354-1364*
- Distributed Control of Networked Nonlinear Systems via Interconnected Takagi-Sugeno Fuzzy Systems With Nonlinear Consequent. *Araujo, R.F.*, +, *TSMC Aug. 2021 4858-4867*
- Distributed Lyapunov-Based Model Predictive Formation Tracking Control for Autonomous Underwater Vehicles Subject to Disturbances. *Wei, H.*, +, *TSMC Aug. 2021 5198-5208*
- Distributed Model-Based Event-Triggered Leader-Follower Consensus Control for Linear Continuous-Time Multiagent Systems. *Zhang, L.*, +, *TSMC Oct. 2021 6457-6465*
- Distributed Optimal Observer Design of Networked Systems via Adaptive Critic Design. *Fu, H.*, +, *TSMC Nov. 2021 6976-6985*
- Distributed Output-Feedback Tracking of Multiple Nonlinear Systems With Unmeasurable States. *Li, W.*, +, *TSMC Jan. 2021 477-486*
- Echo State Network-Based Decentralized Control of Continuous-Time Nonlinear Large-Scale Interconnected Systems. *Zhang, H.*, +, *TSMC Oct. 2021 6293-6303*
- Estimate-Based Dynamic Event-Triggered Output Feedback Control of Networked Nonlinear Uncertain Systems. *Sun, J.*, +, *TSMC May 2021 3148-3158*
- Event-Based Formation Coordinated Control for Multiple Spacecraft Under Communication Constraints. *Hu, Q.*, +, *TSMC May 2021 3168-3179*
- Event-Driven Fault Detection for Discrete-Time Interval Type-2 Fuzzy Systems. *Pan, Y.*, +, *TSMC Aug. 2021 4959-4968*
- Event-Triggered Adaptive Output Feedback Control of Multivariable Systems With Nonsmooth Actuator Nonlinearities. *Yang, Y.*, +, *TSMC Sept. 2021 5557-5566*
- Event-Triggered Control for Multiagent Systems With Sensor Faults and Input Saturation. *Cao, L.*, +, *TSMC June 2021 3855-3866*
- Event-Triggered Distributed H_∞ Constrained Control of Physically Interconnected Large-Scale Partially Unknown Strict-Feedback Systems. *Tan, L.N.*, *TSMC April 2021 2444-2456*
- Event-Triggered Prescribed Performance Control for a Class of Unknown Nonlinear Systems. *Zhang, J.*, +, *TSMC Oct. 2021 6576-6586*
- Event-Triggered Robust Output Regulation of Uncertain Linear Systems With Unknown Exosystems. *Qian, Y.*, +, *TSMC July 2021 4139-4148*
- Event-Triggered Security Output Feedback Control for Networked Interconnected Systems Subject to Cyber-Attacks. *Gu, Z.*, +, *TSMC Oct. 2021 6197-6206*
- Event-Triggered Sliding Mode Control of Switched Neural Networks With Mode-Dependent Average Dwell Time. *Yan, H.*, +, *TSMC Feb. 2021 1233-1243*
- Exponentially Stabilizing Observer-Based Feedback Control of a Sampled-Data Linear Parabolic Multiple-Input-Multiple-Output PDE. *Wang, J.*, *TSMC Sept. 2021 5742-5751*
- Fault-Tolerant Control for Dynamic Positioning Vessel With Thruster Faults Based on the Neural Modified Extended State Observer. *Yu, W.*, +, *TSMC Sept. 2021 5905-5917*
- Finite-Time Stabilization of High-Order Stochastic Nonlinear Systems With Asymmetric Output Constraints. *Fang, L.*, +, *TSMC Nov. 2021 7201-7213*
- Funnel Control of Uncertain High-Order Nonlinear Systems With Unknown Rational Powers. *Liu, Y.*, +, *TSMC Sept. 2021 5732-5741*
- Further Results on Fixed-Time Stabilization and Tracking Control of a Marine Surface Ship Subjected to Output Constraints. *Zhang, Z.*, +, *TSMC Sept. 2021 5300-5310*
- Fuzzy Adaptive Fault-Tolerant Control of Fractional-Order Nonlinear Systems. *Li, Y.*, +, *TSMC March 2021 1372-1379*
- Fuzzy Finite-Time Tracking Control for a Class of Nonaffine Nonlinear Systems With Unknown Dead Zones. *Bao, J.*, +, *TSMC Jan. 2021 452-463*
- Fuzzy-Affine-Model-Based Output Feedback Dynamic Sliding Mode Controller Design of Nonlinear Systems. *Ji, W.*, +, *TSMC March 2021 1652-1661*
- Global Output Feedback Sampled-Data Stabilization of a Class of Switched Nonlinear Systems in the p-Normal Form. *Li, S.*, +, *TSMC Feb. 2021 1075-1084*
- Gradient Descent Algorithm-Based Adaptive NN Control Design for an Induction Motor. *Yang, X.*, +, *TSMC Feb. 2021 1027-1034*
- Hamiltonian-Driven Hybrid Adaptive Dynamic Programming. *Yang, Y.*, +, *TSMC Oct. 2021 6423-6434*
- HMM-Based Asynchronous Controller Design of Markovian Jump Lur'e Systems Within a Finite-Time Interval. *Nie, R.*, +, *TSMC Nov. 2021 6885-6891*
- Hybrid Disturbance Observer-Based Anti-Disturbance Composite Control With Applications to Mars Landing Mission. *Xu, J.*, +, *TSMC May 2021 2885-2893*
- Hybrid PD-Fuzzy and PD Controllers for Trajectory Tracking of a Quadrotor Unmanned Aerial Vehicle: Autopilot Designs and Real-Time Flight Tests. *Santoso, F.*, +, *TSMC March 2021 1817-1829*
- Improved Stability Criteria for Discrete-Time Switched T-S Fuzzy Systems. *Fei, Z.*, +, *TSMC Feb. 2021 712-720*
- Input-Output Finite-Time Reliable Static Output Control of Time-Varying System With Input Delay. *Chen, M.*, +, *TSMC Feb. 2021 1334-1344*
- Iterative Learning Control for Multiphase Batch Processes With Asynchronous Switching. *Wang, L.*, +, *TSMC April 2021 2536-2549*
- Lyapunov Control Method for Mismatched Uncertainty and Gain Variation Compensation in Switched Systems. *Aghababa, M.P.*, *TSMC July 2021 4227-4237*
- Multisensor-Based Navigation and Control of a Mobile Service Robot. *Yuan, W.*, +, *TSMC April 2021 2624-2634*
- Neural Network-Based Adaptive Fault-Tolerant Control for Markovian Jump Systems With Nonlinearity and Actuator Faults. *Yang, H.*, +, *TSMC June 2021 3687-3698*
- Neural Network-Based Sampled-Data Control for Switched Uncertain Nonlinear Systems. *Li, S.*, +, *TSMC Sept. 2021 5437-5445*
- Neuro-Fuzzy-Based Adaptive Dynamic Surface Control for Fractional-Order Nonlinear Strict-Feedback Systems With Input Constraint. *Song, S.*, +, *TSMC June 2021 3575-3586*
- Nonfragile Observer-Based Control for Markovian Jump Systems Subject to Asynchronous Modes. *Tao, J.*, +, *TSMC June 2021 3533-3540*
- Observer-Based Adaptive Event-Triggered Control for Nonstrict-Feedback Nonlinear Systems With Output Constraint and Actuator Failures. *Cao, L.*, +, *TSMC March 2021 1380-1391*
- Observer-Based Containment Control for a Class of Nonlinear Multiagent Systems With Uncertainties. *Yang, Y.*, +, *TSMC Jan. 2021 588-600*
- Observer-Based Finite-Time Control for Distributed Path Maneuvering of Underactuated Unmanned Surface Vehicles With Collision Avoidance and Connectivity Preservation. *Gu, N.*, +, *TSMC Aug. 2021 5105-5115*
- Optimal Output Synchronization Control of a Class of Complex Dynamical Networks With Partially Unknown System Dynamics. *Wang, N.*, +, *TSMC Feb. 2021 822-832*
- Output-Based Containment Control for Uncertain Nonaffine Nonlinear Multiagent Systems. *Yang, Y.*, +, *TSMC Oct. 2021 5992-6002*
- Output-Feedback Adaptive Control of Nonlinear Systems With Input-Output-Dependent Lower-Triangular Growth Rate: A Logic-Based Switching Approach. *Huang, C.*, +, *TSMC Aug. 2021 4804-4813*
- Output-Feedback-Based Consensus Control Without Continuous Interagent Communication. *Shih, C.*, +, *TSMC May 2021 3240-3250*
- Policy-Iteration-Based Learning for Nonlinear Player Game Systems With Constrained Inputs. *Mu, C.*, +, *TSMC Oct. 2021 6488-6502*
- Position-Tracking Controller for Two-Wheeled Balancing Robot Applications Using Invariant Dynamic Surface. *Kim, S.*, +, *TSMC Feb. 2021 705-711*

- Prescribed Performance Neuroadaptive Fault-Tolerant Compensation for MIMO Nonlinear Systems Under Extreme Actuator Failures. *Zhou, S., +, TSMC Sept. 2021 5427-5436*
- Quantized Decentralized Adaptive Neural Network PI Tracking Control for Uncertain Interconnected Nonlinear Systems With Dynamic Uncertainties. *Sun, H., +, TSMC May 2021 3111-3124*
- Quantized Sliding Mode Control of Unmanned Marine Vehicles: Various Thruster Faults Tolerated With a Unified Model. *Hao, L., +, TSMC March 2021 2012-2026*
- Quantized Static Output Feedback Fuzzy Tracking Control for Discrete-Time Nonlinear Networked Systems With Asynchronous Event-Triggered Constraints. *Li, Z., +, TSMC June 2021 3820-3831*
- Receding Horizon Synchronization of Delayed Neural Networks Using a Novel Inequality on Quadratic Polynomial Functions. *Lu, C., +, TSMC Oct. 2021 6085-6095*
- Reduced-Order Estimator-Based Efficient Fault-Tolerant Tracking Control Optimization for Constrained LPV Systems. *Han, K., +, TSMC Sept. 2021 5855-5866*
- Reduced-Order Observer-Based Adaptive Fuzzy Tracking Control Scheme of Stochastic Switched Nonlinear Systems. *Niu, B., +, TSMC July 2021 4566-4578*
- Reliable Fuzzy H_∞ Control for Permanent Magnet Synchronous Motor Against Stochastic Actuator Faults. *Vadivel, R., +, TSMC April 2021 2232-2245*
- Removing Feasibility Conditions on Tracking Control of Full-State Constrained Nonlinear Systems With Time-Varying Powers. *Xie, X., +, TSMC Oct. 2021 6535-6543*
- Repetitive Learning Control for Control-Affine Systems With Time Delays. *Li, H., +, TSMC Aug. 2021 5142-5152*
- RISE-Based Integrated Motion Control of Autonomous Ground Vehicles With Asymptotic Prescribed Performance. *Hu, C., +, TSMC Sept. 2021 5336-5348*
- Robust Adaptive Control for State-Constrained Nonlinear Systems With Input Saturation and Unknown Control Direction. *Wu, Y., +, TSMC Feb. 2021 1192-1202*
- Robust Adaptive Neural Control of Nonminimum Phase Hypersonic Vehicle Model. *Xu, B., +, TSMC Feb. 2021 1107-1115*
- Robust Distributed Formation Controller Design for a Group of Unmanned Underwater Vehicles. *Liu, H., +, TSMC Feb. 2021 1215-1223*
- Robust Exact Predictive Scheme for Output-Feedback Control of Input-Delay Systems With Unmatched Sinusoidal Disturbances. *Shi, S., +, TSMC Sept. 2021 5357-5366*
- Robust Fixed-Time Consensus Tracking Control of High-Order Multiple Nonholonomic Systems. *Shi, S., +, TSMC March 2021 1869-1880*
- Robust Model Predictive Iterative Learning Control for Iteration-Varying-Reference Batch Processes. *Liu, X., +, TSMC July 2021 4238-4250*
- Robust Resilient Control Based on Multi-Approximator for the Uncertain Turbofan System With Unmeasured States and Disturbances. *Li, Y., +, TSMC Oct. 2021 6040-6049*
- Robust Time-Varying Formation Control for Tail-Sitters in Flight Mode Transitions. *Liu, D., +, TSMC July 2021 4102-4111*
- Second-Order Sliding Mode Controller Design Subject to an Upper-Triangular Structure. *Mei, K., +, TSMC Jan. 2021 497-507*
- Small-Gain Technique-Based Adaptive Neural Output-Feedback Fault-Tolerant Control of Switched Nonlinear Systems With Unmodeled Dynamics. *Ma, L., +, TSMC Nov. 2021 7051-7062*
- Stability Analysis for Input Saturated Discrete-Time Switched Systems With Average Dwell-Time. *Wang, Q., +, TSMC Jan. 2021 412-419*
- Stability Analysis of Complex Network Control System With Dynamical Topology and Delays. *Li, M., +, TSMC Nov. 2021 7228-7237*
- Stability-Guaranteed Variable Impedance Control of Robots Based on Approximate Dynamic Inversion. *Sun, T., +, TSMC July 2021 4193-4200*
- Stabilization of Networked Control Systems With Hybrid-Driven Mechanism and Probabilistic Cyber Attacks. *Liu, J., +, TSMC Feb. 2021 943-953*
- The Set-Invariance Paradigm in Fuzzy Adaptive DSC Design of Large-Scale Nonlinear Input-Constrained Systems. *Lv, M., +, TSMC Feb. 2021 1035-1045*
- Time-Scale Redesign-Based Saturated Controller Synthesis for a Class of MIMO Nonlinear Systems. *Rayguru, M.M., +, TSMC Aug. 2021 4681-4692*
- Two-Dimensional Iterative Learning Model Predictive Control for Batch Processes: A New State Space Model Compensation Approach. *Zhang, R., +, TSMC Feb. 2021 833-841*
- Unknown Dynamics Estimator-Based Output-Feedback Control for Nonlinear Pure-Feedback Systems. *Na, J., +, TSMC June 2021 3832-3843*
- Variable Cut-Off Frequency Algorithm-Based Nonlinear Position Controller for Magnetic Levitation System Applications. *Kim, S., +, TSMC July 2021 4599-4605*
- Vibration and Position Control of Overhead Crane With Three-Dimensional Variable Length Cable Subject to Input Amplitude and Rate Constraints. *Xing, X., +, TSMC July 2021 4127-4138*
- Visual Trajectory Tracking of Wheeled Mobile Robots With Uncalibrated Camera Extrinsic Parameters. *Zhang, K., +, TSMC Nov. 2021 7191-7200*
- Cloud computing**
- A Double-Blind Anonymous Evaluation-Based Trust Model in Cloud Computing Environments. *Zhang, P., +, TSMC March 2021 1805-1816*
- An Effective Data-Driven Cloud Resource Procurement Scheme With Personalized Reserve Prices. *Wu, X., +, TSMC Aug. 2021 4693-4705*
- An Intelligent Cloud Workflow Scheduling System With Time Estimation and Adaptive Ant Colony Optimization. *Jia, Y., +, TSMC Jan. 2021 634-649*
- Predictive Cloud Control for Networked Multiagent Systems With Quantized Signals Under DoS Attacks. *Yang, H., +, TSMC Feb. 2021 1345-1353*
- Proof of Previous Transactions (PoPT): An Efficient Approach to Consensus for JCLedger. *Xiang, F., +, TSMC April 2021 2415-2424*
- Reliability Modeling for Sparsely Connected Homogeneous Multistate Consecutive-k-Out-of-n: GSystems. *Gao, H., +, TSMC March 2021 1844-1854*
- Resource Utilization-Aware Collaborative Optimization of IaaS Cloud Service Composition for Data-Intensive Applications. *Ma, H., +, TSMC Feb. 2021 1322-1333*
- Cluster computing**
- Concurrent Processing Cluster Design to Empower Simultaneous Prediction for Hundreds of Vessels' Trajectories in Near Real-Time. *Xiao, Z., +, TSMC March 2021 1830-1843*
- Cluster tools**
- Closing-Down Optimization for Single-Arm Cluster Tools Subject to Wafer Residency Time Constraints. *Qiao, Y., +, TSMC Nov. 2021 6792-6807*
- Efficient Approach to Failure Response of Process Module in Dual-Arm Cluster Tools With Wafer Residency Time Constraints. *Qiao, Y., +, TSMC March 2021 1612-1629*
- Clustering methods**
- Integrated Scheduling of a Dual-Armed Cluster Tool for Maximizing Steady Schedule Patterns. *Kim, W., +, TSMC Dec. 2021 7282-7294*
- Coagulation**
- An Auto-Adjustable and Time-Consistent Model for Determining Coagulant Dosage Based on Operators' Experience. *Liu, Y., +, TSMC Sept. 2021 5614-5625*
- Cogeneration**
- Design Optimization Using Game Theory. *Smirnov, D., +, TSMC Feb. 2021 1302-1312*
- Cognition**
- Connecting Model-Based and Model-Free Control With Emotion Modulation in Learning Systems. *Huang, X., +, TSMC Aug. 2021 4624-4638*
- Cognitive radio**
- A Switching Method to Event-Triggered Output Feedback Control for Unmanned Aerial Vehicles Over Cognitive Radio Networks. *Wu, Z., +, TSMC Dec. 2021 7530-7541*
- Coils**
- Independent Electromagnetic Field Control for Practical Approach to Actively Locomotive Wireless Capsule Endoscope. *Hoang, M.C., +, TSMC May 2021 3040-3052*
- Collaboration**
- Output Homogenization and Synchronization of Heterogeneous Nonlinear Multiagent Networks. *Wei, Y., +, TSMC Dec. 2021 7295-7304*

Collaborative filtering

An Instance-Frequency-Weighted Regularization Scheme for Non-Negative Latent Factor Analysis on High-Dimensional and Sparse Data. *Luo, X., +, TSMC June 2021 3522-3532*

Collaborative Neural Social Recommendation. *Wu, L., +, TSMC Jan. 2021 464-476*

Location-Aware Deep Collaborative Filtering for Service Recommendation. *Zhang, Y., +, TSMC June 2021 3796-3807*

Collision avoidance

3-D Path Planning With Multiple Motions for a Gliding Robotic Dolphin. *Wang, J., +, TSMC May 2021 2904-2915*

Concurrent Processing Cluster Design to Empower Simultaneous Prediction for Hundreds of Vessels' Trajectories in Near Real-Time. *Xiao, Z., +, TSMC March 2021 1830-1843*

Cooperative Target Tracking in Aquatic Environment Using Dual Robotic Dolphins. *Liu, J., +, TSMC Aug. 2021 4782-4792*

Distributed Lyapunov-Based Model Predictive Formation Tracking Control for Autonomous Underwater Vehicles Subject to Disturbances. *Wei, H., +, TSMC Aug. 2021 5198-5208*

Ensemble Learning Based Brain-Computer Interface System for Ground Vehicle Control. *Zhuang, J., +, TSMC Sept. 2021 5392-5404*

Force Sensorless Admittance Control for Teleoperation of Uncertain Robot Manipulator Using Neural Networks. *Yang, C., +, TSMC May 2021 3282-3292*

IWSCR: An Intelligent Water Surface Cleaner Robot for Collecting Floating Garbage. *Kong, S., +, TSMC Oct. 2021 6358-6368*

Laser-Based Intersection-Aware Human Following With a Mobile Robot in Indoor Environments. *Yuan, J., +, TSMC Jan. 2021 354-369*

Multisensor-Based Navigation and Control of a Mobile Service Robot. *Yuan, W., +, TSMC April 2021 2624-2634*

Observer-Based Finite-Time Control for Distributed Path Maneuvering of Underactuated Unmanned Surface Vehicles With Collision Avoidance and Connectivity Preservation. *Gu, N., +, TSMC Aug. 2021 5105-5115*

Targeting Posture Control With Dynamic Obstacle Avoidance of Constrained Uncertain Wheeled Mobile Robots Including Unknown Skidding and Slipping. *Lu, Q., +, TSMC Nov. 2021 6650-6659*

Two Hybrid Multiobjective Motion Planning Schemes Synthesized by Recurrent Neural Networks for Wheeled Mobile Robot Manipulators. *Zhang, Z., +, TSMC May 2021 3270-3281*

Command and control systems

Capability Oriented Equipment Contribution Analysis in Temporal Combat Networks. *Li, J., +, TSMC Feb. 2021 696-704*

Communication channels

State Estimation for Networked Systems With Markov Driven Transmission and Buffer Constraint. *Xu, Y., +, TSMC Dec. 2021 7727-7734*

Compensation

Adaptive Compensation of Persistent Actuator Failures Using Control-Separation-Based LQ Design. *Wen, L., +, TSMC Aug. 2021 5030-5045*

Adaptive Inverse Control of a Vibrating Coupled Vessel-Riser System With Input Backlash. *He, X., +, TSMC Aug. 2021 4706-4715*

Adaptive Path Following Control of Unmanned Surface Vehicles Considering Environmental Disturbances and System Constraints. *Liu, Z., +, TSMC Jan. 2021 339-353*

Auxiliary Constrained Control of a Class of Fault-Tolerant Systems. *Jin, X., +, TSMC April 2021 2272-2283*

Auxiliary Predictive Compensation-Based ILC for Variable Pass Lengths. *Lin, N., +, TSMC July 2021 4048-4056*

Distributed Fusion Estimation for Multisensor Multirate Systems With Packet Dropout Compensations and Correlated Noises. *Tian, T., +, TSMC Sept. 2021 5762-5772*

Event-Triggered Control for Multiagent Systems With Sensor Faults and Input Saturation. *Cao, L., +, TSMC June 2021 3855-3866*

Experimental Output Regulation of Linear Motor Driven Inverted Pendulum With Friction Compensation. *Ping, Z., +, TSMC June 2021 3751-3758*

Fixed-Time Consensus Tracking for Second-Order Multiagent Systems Under Disturbance. *Liu, Y., +, TSMC Aug. 2021 4883-4894*

Generalized Lead-Lag H_∞ Compensators for MIMO Linear Systems. *Liu, J.J.R., +, TSMC Oct. 2021 6207-6217*

Global Optimization: A Distributed Compensation Algorithm and its Convergence Analysis. *Lin, W., +, TSMC April 2021 2355-2369*

On the Principle and Applications of Conditional Disturbance Negation. *Pu, Z., +, TSMC Nov. 2021 6757-6767*

Power Compensation of Network Losses in a Microgrid With BESS by Distributed Consensus Algorithm. *Sun, Y., +, TSMC April 2021 2091-2100*

Targeting Posture Control With Dynamic Obstacle Avoidance of Constrained Uncertain Wheeled Mobile Robots Including Unknown Skidding and Slipping. *Lu, Q., +, TSMC Nov. 2021 6650-6659*

Unknown Dynamics Estimator-Based Output-Feedback Control for Nonlinear Pure-Feedback Systems. *Na, J., +, TSMC June 2021 3832-3843*

Complex networks

A Binary Particle Swarm Optimizer With Priority Planning and Hierarchical Learning for Networked Epidemic Control. *Zhao, T., +, TSMC Aug. 2021 5090-5104*

A Community Structure Enhancement-Based Community Detection Algorithm for Complex Networks. *Su, Y., +, TSMC May 2021 2833-2846*

A Complex Network-Based Broad Learning System for Detecting Driver Fatigue From EEG Signals. *Yang, Y., +, TSMC Sept. 2021 5800-5808*

A Decomposition Approach for Synchronization of Heterogeneous Complex Networks. *Wang, L., +, TSMC Feb. 2021 853-863*

Adaptively Synchronize the Derivative Coupled Complex Networks With Proportional Delay. *Tang, Z., +, TSMC Aug. 2021 4969-4979*

An Efficient Hybrid Control Strategy for Restraining Rumor Spreading. *Ding, L., +, TSMC Nov. 2021 6779-6791*

An Improved Impulsive Control Approach for Cluster Synchronization of Complex Networks With Parameter Mismatches. *Wang, X., +, TSMC April 2021 2561-2570*

Characteristic Model-Based Control Approach for Complex Network Systems. *Chen, L., +, TSMC June 2021 3599-3607*

Connection of Signed and Unsigned Networks Based on Solving Linear Dynamic Systems. *Meng, D., +, TSMC Aug. 2021 5174-5188*

Coordination and Control of Complex Network Systems With Switching Topologies: A Survey. *Wen, G., +, TSMC Oct. 2021 6342-6357*

Device-Free Orientation Detection Based on CSI and Visibility Graph. *Wu, Z., +, TSMC July 2021 4433-4442*

Dynamic Community Evolution Analysis Framework for Large-Scale Complex Networks Based on Strong and Weak Events. *Qiao, S., +, TSMC Oct. 2021 6229-6243*

Finite-Time Synchronization of Fractional-Order Complex-Variable Dynamic Networks. *Hou, T., +, TSMC July 2021 4297-4307*

Infection-Probability-Dependent Interlayer Interaction Propagation Processes in Multiplex Networks. *Liu, J., +, TSMC Feb. 2021 1085-1096*

Inferring Network Structure and Estimating Dynamical Process From Binary-State Data via Logistic Regression. *Liu, Q., +, TSMC Aug. 2021 4639-4649*

Input-Output Finite-Time Estimation for Complex Networks With Switching Topology Under Dynamic Event-Triggered Transmission. *Sang, H., +, TSMC Oct. 2021 6513-6522*

Intermittent Control Strategy for Synchronization Analysis of Time-Varying Complex Dynamical Networks. *Wu, Y., +, TSMC May 2021 3251-3262*

Optimizing Pinning Control of Complex Dynamical Networks Based on Spectral Properties of Grounded Laplacian Matrices. *Liu, H., +, TSMC Feb. 2021 786-796*

Robustness Evaluation of Multipartite Complex Networks Based on Percolation Theory. *Cai, Q., +, TSMC Oct. 2021 6244-6257*

Sequential Restorations of Complex Networks After Cascading Failures. *Huang, Y., +, TSMC Jan. 2021 400-411*

Stability Analysis of Complex Network Control System With Dynamical Topology and Delays. *Li, M., +, TSMC Nov. 2021 7228-7237*

Synchronization of Resilient Complex Networks Under Attacks. *Wang, P., +, TSMC Feb. 2021 1116-1127*

Synchronization on Lur'e Cluster Networks With Proportional Delay: Impulsive Effects Method. *Tang, Z., +, TSMC July 2021 4555-4565*

The Role of Reverse Edges on Consensus Performance of Chain Networks. *Hao, Y., +, TSMC March 2021 1757-1765*

Compounds

Serial-Parallel Estimation Model-Based Sliding Mode Control of MEMS Gyroscopes. *Zhang, R.*, +, *TSMC Dec. 2021 7764-7775*

Computational complexity

A Chaotic Ant Colony Optimized Link Prediction Algorithm. *Cao, Z.*, +, *TSMC Sept. 2021 5274-5288*

A Deep Latent Factor Model for High-Dimensional and Sparse Matrices in Recommender Systems. *Wu, D.*, +, *TSMC July 2021 4285-4296*

A Fast Semi-Supervised Clustering Framework for Large-Scale Time Series Data. *He, G.*, +, *TSMC July 2021 4201-4216*

A Parallel Social Spider Optimization Algorithm Based on Emotional Learning. *Lai, Z.*, +, *TSMC Feb. 2021 797-808*

An Intelligent Cloud Workflow Scheduling System With Time Estimation and Adaptive Ant Colony Optimization. *Jia, Y.*, +, *TSMC Jan. 2021 634-649*

Canonical Duality Theory and Algorithm for Solving Bilevel Knapsack Problems With Applications. *Gao, D.Y.*, *TSMC Feb. 2021 893-904*

Distance-Preserving Vector Space Embedding for Consensus Learning. *Nienkotter, A.*, +, *TSMC Feb. 2021 1244-1257*

Drivable Path Planning Using Hybrid Search Algorithm Based on E* and Bernstein-Bézier Motion Primitives. *Klančar, G.*, +, *TSMC Aug. 2021 4868-4882*

Group Scheduling With Nonperiodical Maintenance and Deteriorating Effects. *Xu, H.*, +, *TSMC May 2021 2860-2872*

New Noise-Tolerant Neural Algorithms for Future Dynamic Nonlinear Optimization With Estimation on Hessian Matrix Inversion. *Wei, L.*, +, *TSMC April 2021 2611-2623*

Optimal Control on Finite-Time Consensus of the Leader-Following Stochastic Multiagent System With Heuristic Method. *Xu, S.*, +, *TSMC June 2021 3617-3628*

Quick Convex Hull-Based Rendezvous Planning for Delay-Harsh Mobile Data Gathering in Disjoint Sensor Networks. *Liu, X.*, +, *TSMC June 2021 3844-3854*

Secure Conflicts Avoidance in Multidomain Environments: A Distributed Approach. *Yang, B.*, +, *TSMC Sept. 2021 5478-5489*

Spatial Context Energy Curve-Based Multilevel 3-D Otsu Algorithm for Image Segmentation. *Bhandari, A.K.*, +, *TSMC May 2021 2760-2773*

Computational efficiency

AUC-Based Extreme Learning Machines for Supervised and Semi-Supervised Imbalanced Classification. *Wang, G.*, +, *TSMC Dec. 2021 7919-7930*

Computational fluid dynamics

Bleeding Simulation With Improved Visual Effects for Surgical Simulation Systems. *Shi, W.*, +, *TSMC Feb. 2021 686-695*

Computational geometry

3-D Path Planning With Multiple Motions for a Gliding Robotic Dolphin. *Wang, J.*, +, *TSMC May 2021 2904-2915*

Coordination Tracking of Multiagent Systems With Active Replacement Strategy Under Node Failures. *Dong, L.*, +, *TSMC Nov. 2021 6852-6862*

Fixed-Time Cooperative Relay Tracking in Multiagent Surveillance Networks. *Du, S.*, +, *TSMC Jan. 2021 487-496*

Laser-Based Intersection-Aware Human Following With a Mobile Robot in Indoor Environments. *Yuan, J.*, +, *TSMC Jan. 2021 354-369*

Computational modeling

AUC-Based Extreme Learning Machines for Supervised and Semi-Supervised Imbalanced Classification. *Wang, G.*, +, *TSMC Dec. 2021 7919-7930*

Deadlock Prevention Controller for Automated Manufacturing Systems Modeled by S⁴PR. *Feng, Y.*, +, *TSMC Dec. 2021 7403-7412*

Multiagent System-Based Integrated Design of Security Control and Economic Dispatch for Interconnected Microgrid Systems. *Zhang, Z.*, +, *TSMC April 2021 2101-2112*

Computer crime

Effective Quarantine and Recovery Scheme Against Advanced Persistent Threat. *Yang, L.*, +, *TSMC Oct. 2021 5977-5991*

Computer network security

Distributed Consensus Tracking of Networked Agent Systems Under Denial-of-Service Attacks. *Wan, Y.*, +, *TSMC Oct. 2021 6183-6196*

Recursive Filtering of Distributed Cyber-Physical Systems With Attack Detection. *Ding, D.*, +, *TSMC Oct. 2021 6466-6476*

Resilient H_∞ Filtering for Event-Triggered Networked Systems Under Non-periodic DoS Jamming Attacks. *Hu, S.*, +, *TSMC March 2021 1392-1403*

RQ-CEASE: A Resilient Quantized Collaborative Event-Triggered Average-Consensus Sampled-Data Framework Under Denial of Service Attack. *Amini, A.*, +, *TSMC Nov. 2021 7027-7039*

Using Conditional Random Fields to Optimize a Self-Adaptive Bell-LaPadula Model in Control Systems. *Yang, L.*, +, *TSMC July 2021 4505-4519*

Computer networks

Distributed Virtual Network Embedding System With Historical Archives and Set-Based Particle Swarm Optimization. *Song, A.*, +, *TSMC Feb. 2021 927-942*

Computer simulation

Scaled Tracking Consensus in Discrete-Time Second-Order Multiagent Systems With Random Packet Dropouts. *Shi, L.*, +, *TSMC Dec. 2021 7745-7751*

Two Hybrid Multiobjective Motion Planning Schemes Synthesized by Recurrent Neural Networks for Wheeled Mobile Robot Manipulators. *Zhang, Z.*, +, *TSMC May 2021 3270-3281*

Computer vision

Adaptive Pulsatile Plane for Robust Noncontact Heart Rate Monitoring. *Tran, Q.*, +, *TSMC Sept. 2021 5587-5599*

Artificial Vision by Deep CNN Neocognitron. *Fukushima, K.*, *TSMC Jan. 2021 76-90*

IWSCR: An Intelligent Water Surface Cleaner Robot for Collecting Floating Garbage. *Kong, S.*, +, *TSMC Oct. 2021 6358-6368*

Multialgorithm Fusion Image Processing for High Speed Railway Dropper Failure-Defect Detection. *Tan, P.*, +, *TSMC July 2021 4466-4478*

Nonlinear Pose Filters on the Special Euclidean Group SE(3) With Guaranteed Transient and Steady-State Performance. *Hashim, H.A.*, +, *TSMC May 2021 2949-2962*

Quality Inspection Based on Quadrangular Object Detection for Deep Aperture Component. *Zhang, J.*, +, *TSMC Oct. 2021 5938-5948*

Self-Attention-Based Temporary Curiosity in Reinforcement Learning Exploration. *Hu, H.*, +, *TSMC Sept. 2021 5773-5784*

Concave programming

Continuous-Time Algorithm for Approximate Distributed Optimization With Affine Equality and Convex Inequality Constraints. *Jiang, X.*, +, *TSMC Sept. 2021 5809-5818*

Parametric NCP-Based Recurrent Neural Network Model: A New Strategy to Solve Fuzzy Nonconvex Optimization Problems. *Mansoori, A.*, +, *TSMC April 2021 2592-2601*

Concurrency (computers)

Concurrent Processing Cluster Design to Empower Simultaneous Prediction for Hundreds of Vessels' Trajectories in Near Real-Time. *Xiao, Z.*, +, *TSMC March 2021 1830-1843*

Condition monitoring

Equipment Health Assessment Based on Improved Incremental Support Vector Data Description. *Zhang, L.*, +, *TSMC May 2021 3205-3216*

Consecutive system reliability

Economic Design of a Linear Consecutively Connected System Considering Cost and Signal Loss. *Gao, K.*, +, *TSMC Aug. 2021 5116-5128*

Consensus protocol

Global Social Cost Minimization With Possibly Nonconvex Objective Functions: An Extremum Seeking-Based Approach. *Ye, M.*, +, *TSMC Dec. 2021 7413-7422*

Constraint handling

A Fast Semi-Supervised Clustering Framework for Large-Scale Time Series Data. *He, G.*, +, *TSMC July 2021 4201-4216*

A New Fitness Function With Two Rankings for Evolutionary Constrained Multiobjective Optimization. *Ma, Z.*, +, *TSMC Aug. 2021 5005-5016*

Indicator-Based Constrained Multiobjective Evolutionary Algorithms. *Liu, Z.*, +, *TSMC Sept. 2021 5414-5426*

Consumer behavior

Managing Online Channel and Optimization in Supply Chain Systems With Different Channel Leaderships. *Xu, L.*, +, *TSMC Nov. 2021 7177-7190*

Contamination

Composite Decision Makers in the Graph Model for Conflict Resolution: Hesitant Fuzzy Preference Modeling. *Wu, N., +, TSMC Dec. 2021 7889-7902*

Content-addressable storage

Bidirectional Associative Memories: Unsupervised Hebbian Learning to Bidirectional Backpropagation. *Kosko, B., TSMC Jan. 2021 103-115*

Continuous systems

Economic Design of a Linear Consecutively Connected System Considering Cost and Signal Loss. *Gao, K., +, TSMC Aug. 2021 5116-5128*

Hybrid Disturbance Observer-Based Anti-Disturbance Composite Control With Applications to Mars Landing Mission. *Xu, J., +, TSMC May 2021 2885-2893*

Output-Feedback-Based Consensus Control Without Continuous Interagent Communication. *Shih, C., +, TSMC May 2021 3240-3250*

Continuous time systems

Adaptive Dynamic Programming for Control: A Survey and Recent Advances. *Liu, D., +, TSMC Jan. 2021 142-160*

Adaptive Event-Triggered and Double-Quantized Consensus of Leader-Follower Multiagent Systems With Semi-Markovian Jump Parameters. *Gong, C., +, TSMC Sept. 2021 5867-5879*

Adaptive Finite-Time Tracking Control for Continuous Stirred Tank Reactor With Time-Varying Output Constraint. *Li, D., +, TSMC Sept. 2021 5929-5934*

An Input Delay Approach to Interval Type-2 Fuzzy Exponential Stabilization for Nonlinear Unreliable Networked Sampled-Data Control Systems. *Du, Z., +, TSMC June 2021 3488-3497*

Characteristic Modeling Approach for High-Order Linear Dynamical Systems. *Chen, L., +, TSMC Sept. 2021 5405-5413*

Connection of Signed and Unsigned Networks Based on Solving Linear Dynamic Systems. *Meng, D., +, TSMC Aug. 2021 5174-5188*

Containment Control of Semi-Markovian Multiagent Systems With Switching Topologies. *Liang, H., +, TSMC June 2021 3889-3899*

Dissipativity-Based Asynchronous Control for 2-D Markov Jump Systems in Continuous-Time Domain. *Shen, Y., +, TSMC Sept. 2021 5349-5356*

Distributed Continuous-Time Optimization of Second-Order Multiagent Systems With Nonconvex Input Constraints. *Mo, L., +, TSMC Oct. 2021 6404-6413*

Distributed Model-Based Event-Triggered Leader-Follower Consensus Control for Linear Continuous-Time Multiagent Systems. *Zhang, L., +, TSMC Oct. 2021 6457-6465*

Distributed Quantized Optimization Design of Continuous-Time Multiagent Systems Over Switching Graphs. *Chen, Z., +, TSMC Nov. 2021 7152-7163*

Distributed Resource Allocation Over Directed Graphs via Continuous-Time Algorithms. *Zhu, Y., +, TSMC Feb. 2021 1097-1106*

Distributed Robust Adaptive Optimization for Nonlinear Multiagent Systems. *Liu, Y., +, TSMC Feb. 2021 1046-1053*

Echo State Network-Based Decentralized Control of Continuous-Time Nonlinear Large-Scale Interconnected Systems. *Zhang, H., +, TSMC Oct. 2021 6293-6303*

Event-Triggered H_∞ Filtering for Networked Switched Systems With Packet Disorders. *Qi, Y., +, TSMC May 2021 2847-2859*

Event-Triggered Adaptive Output Feedback Control of Multivariable Systems With Nonsmooth Actuator Nonlinearities. *Yang, Y., +, TSMC Sept. 2021 5557-5566*

Event-Triggered Distributed H_∞ Constrained Control of Physically Interconnected Large-Scale Partially Unknown Strict-Feedback Systems. *Tan, L.N., TSMC April 2021 2444-2456*

Event-Triggered Privacy-Preserving Average Consensus for Multiagent Networks With Time Delay: An Output Mask Approach. *Wang, A., +, TSMC July 2021 4520-4531*

Event-Triggered Sliding Mode Control of Switched Neural Networks With Mode-Dependent Average Dwell Time. *Yan, H., +, TSMC Feb. 2021 1233-1243*

Extended Dissipativity-Based Control for Hidden Markov Jump Singularly Perturbed Systems Subject to General Probabilities. *Li, F., +, TSMC Sept. 2021 5752-5761*

Global Consensus of Positive Edge System With Sector Input Nonlinearities. *Wu, H., +, TSMC July 2021 4057-4066*

Hamiltonian-Driven Hybrid Adaptive Dynamic Programming. *Yang, Y., +, TSMC Oct. 2021 6423-6434*

Input-to-State Stability of Nonlinear Systems Using Observer-Based Event-Triggered Impulsive Control. *Li, X., +, TSMC Nov. 2021 6892-6900*

Model-Based Periodic Event-Triggered Control Strategy to Stabilize a Scalar Nonlinear System. *Dou, R., +, TSMC Sept. 2021 5322-5335*

Neural Network-Based Sampled-Data Control for Switched Uncertain Nonlinear Systems. *Li, S., +, TSMC Sept. 2021 5437-5445*

Observed-Based Finite-Time Control of Nonlinear Semi-Markovian Jump Systems With Saturation Constraint. *Tian, Y., +, TSMC Nov. 2021 6639-6649*

Output Tracking of Uncertain Nonminimum Phase Systems by Experience Replay. *Ye, L., +, TSMC May 2021 3159-3167*

Policy-Iteration-Based Learning for Nonlinear Player Game Systems With Constrained Inputs. *Mu, C., +, TSMC Oct. 2021 6488-6502*

Quasi-Synchronization in Heterogeneous Harmonic Oscillators With Continuous and Sampled Coupling. *Wang, Z., +, TSMC Feb. 2021 1267-1277*

Sliding Mode Control for Markov Jump Systems With Delays via Asynchronous Approach. *Fang, M., +, TSMC May 2021 2916-2925*

Stepsize Interval Confirmation of General Four-Step DTZN Algorithm Illustrated With Future Quadratic Programming and Tracking Control of Manipulators. *Guo, J., +, TSMC March 2021 1662-1670*

Continuous wavelet transforms

Emotion Classification Using EEG Brain Signals and the Broad Learning System. *Issa, S., +, TSMC Dec. 2021 7382-7391*

Contracts

Managing Online Channel and Optimization in Supply Chain Systems With Different Channel Leaderships. *Xu, L., +, TSMC Nov. 2021 7177-7190*

Mobile-App-Online-Website Dual Channel Strategies: Privacy Concerns, E-Payment Convenience, Channel Relationship, and Coordination. *Choi, T., TSMC Nov. 2021 7008-7016*

Control design

\mathcal{L}_1 Control of Positive Semi-Markov Jump Systems With State Delay. *Zong, G., +, TSMC Dec. 2021 7569-7578*

Adaptive Dynamic Surface Fuzzy Control for State Constrained Time-Delay Nonlinear Nonstrict Feedback Systems With Unknown Control Directions. *Sun, W., +, TSMC Dec. 2021 7423-7434*

Constraint-Based Control Design for Uncertain Underactuated Mechanical System: Leakage-Type Adaptation Mechanism. *Sun, H., +, TSMC Dec. 2021 7663-7674*

Control engineering computing

Data-Driven Output-Feedback LQ Secure Control for Unknown Cyber-Physical Systems Against Sparse Actuator Attacks. *Shen, X., +, TSMC Sept. 2021 5708-5720*

Robust LMI-Based H-Infinite Controller Integrating AFS and DYC of Autonomous Vehicles With Parametric Uncertainties. *Cheng, S., +, TSMC Nov. 2021 6901-6910*

Secure State Estimation and Control of Cyber-Physical Systems: A Survey. *Ding, D., +, TSMC Jan. 2021 176-190*

Tracking Controllers to Chase a Target Using Multiple Autonomous Underwater Vehicles Measuring the Sound Emitted From the Target. *Kim, J., TSMC July 2021 4579-4587*

Two Hybrid Multiobjective Motion Planning Schemes Synthesized by Recurrent Neural Networks for Wheeled Mobile Robot Manipulators. *Zhang, Z., +, TSMC May 2021 3270-3281*

Underwater Target Tracking Control of an Untethered Robotic Fish With a Camera Stabilizer. *Yu, J., +, TSMC Oct. 2021 6523-6534*

Control nonlinearities

A Novel Finite-Time Control for Nonstrict Feedback Saturated Nonlinear Systems With Tracking Error Constraint. *Sun, K., +, TSMC June 2021 3968-3979*

Adaptive Command Filtered Neuro-Fuzzy Control Design for Fractional-Order Nonlinear Systems With Unknown Control Directions and Input Quantization. *Song, S., +, TSMC Nov. 2021 7238-7249*

Adaptive Finite-Time Fuzzy Funnel Control for Nonaffine Nonlinear Systems. *Liu, C., +, TSMC May 2021 2894-2903*

- Adaptive Finite-Time Saturated Tracking Control for a Class of Partially Known Robots. *Hwang, C.*, +, *TSMC Sept. 2021 5674-5685*
- Adaptive Finite-Time Tracking Control for Continuous Stirred Tank Reactor With Time-Varying Output Constraint. *Li, D.*, +, *TSMC Sept. 2021 5929-5934*
- Adaptive Fixed-Time Control of Error-Constrained Pure-Feedback Interconnected Nonlinear Systems. *Zhou, Q.*, +, *TSMC Oct. 2021 6369-6380*
- Adaptive Intelligent Control for Input and Output Constrained High-Order Uncertain Nonlinear Systems. *Sun, W.*, +, *TSMC Sept. 2021 5577-5586*
- Adaptive Inverse Control of a Vibrating Coupled Vessel-Riser System With Input Backlash. *He, X.*, +, *TSMC Aug. 2021 4706-4715*
- Adaptive Leaderless Consensus Control of Strict-Feedback Nonlinear Multiagent Systems With Unknown Control Directions. *Rezaee, H.*, +, *TSMC Oct. 2021 6435-6444*
- Adaptive Neural Discrete-Time Fractional-Order Control for a UAV System With Prescribed Performance Using Disturbance Observer. *Shao, S.*, +, *TSMC Feb. 2021 742-754*
- Adaptive Neural Network Control Design for Uncertain Nonstrict Feedback Nonlinear System With State Constraints. *Ma, L.*, +, *TSMC June 2021 3678-3686*
- Adaptive Neural Tracking Control Scheme of Switched Stochastic Nonlinear Pure-Feedback Nonlower Triangular Systems. *Niu, B.*, +, *TSMC Feb. 2021 975-986*
- Adaptive NN Cross Backstepping Control for Nonlinear Systems With Partial Time-Varying State Constraints and Its Applications to Hyper-Chaotic Systems. *Li, D.*, +, *TSMC May 2021 2821-2832*
- Adaptive Quantized Control of Output Feedback Nonlinear Systems With Input Unmodeled Dynamics Based on Backstepping and Small-Gain Method. *Xia, X.*, +, *TSMC Sept. 2021 5686-5697*
- Asymmetric Bounded Neural Control for an Uncertain Robot by State Feedback and Output Feedback. *Kong, L.*, +, *TSMC March 2021 1735-1746*
- Auxiliary Constrained Control of a Class of Fault-Tolerant Systems. *Jin, X.*, +, *TSMC April 2021 2272-2283*
- Boundary Output Constrained Control for a Flexible Beam System With Prescribed Performance. *Zhao, Z.*, +, *TSMC Aug. 2021 4650-4658*
- Command Filter-Based Adaptive Prescribed Performance Tracking Control for Stochastic Uncertain Nonlinear Systems. *Sun, W.*, +, *TSMC Oct. 2021 6555-6563*
- Command Filtered Backstepping-Based Attitude Containment Control for Spacecraft Formation. *Zhao, L.*, +, *TSMC Feb. 2021 1278-1287*
- Control Design for Uncertain Switched Nonlinear Systems: Adaptive Neural Approach. *Liu, Z.*, +, *TSMC April 2021 2322-2331*
- Design of Output-Based Finite-Time Convergent Composite Controller for a Class of Perturbed Second-Order Nonlinear Systems. *Zhu, W.*, +, *TSMC Nov. 2021 6768-6778*
- Dissimilarity Analysis-Based Multimode Modeling for Complex Distributed Parameter Systems. *Wang, Z.*, +, *TSMC May 2021 2789-2797*
- Distributed Dynamic Averaging Tracking Without Rate Measurements. *Chen, Y.*, +, *TSMC July 2021 4359-4364*
- Event-Triggered Adaptive Output Feedback Control of Multivariable Systems With Nonsmooth Actuator Nonlinearities. *Yang, Y.*, +, *TSMC Sept. 2021 5557-5566*
- Finite-Time Stabilization of High-Order Stochastic Nonlinear Systems With Asymmetric Output Constraints. *Fang, L.*, +, *TSMC Nov. 2021 7201-7213*
- Fuzzy Adaptive Fault-Tolerant Control of Fractional-Order Nonlinear Systems. *Li, Y.*, +, *TSMC March 2021 1372-1379*
- Fuzzy Adaptive Tracking Control for State Constraint Switched Stochastic Nonlinear Systems With Unstable Inverse Dynamics. *Wu, W.*, +, *TSMC Sept. 2021 5522-5534*
- Fuzzy Finite-Time Tracking Control for a Class of Nonaffine Nonlinear Systems With Unknown Dead Zones. *Bao, J.*, +, *TSMC Jan. 2021 452-463*
- Gradient Descent Algorithm-Based Adaptive NN Control Design for an Induction Motor. *Yang, X.*, +, *TSMC Feb. 2021 1027-1034*
- Interval Type-2 FNN-Based Quantized Tracking Control for Hypersonic Flight Vehicles With Prescribed Performance. *Gao, Y.*, +, *TSMC March 2021 1981-1993*
- Neural Integral Backstepping Hierarchical Sliding Mode Control for a Rideable Ballbot Under Uncertainties and Input Saturation. *Do, V.*, +, *TSMC Nov. 2021 7214-7227*
- Neural Network-Based Adaptive Fault-Tolerant Control for Markovian Jump Systems With Nonlinearity and Actuator Faults. *Yang, H.*, +, *TSMC June 2021 3687-3698*
- Neural-Based Decentralized Adaptive Finite-Time Control for Nonlinear Large-Scale Systems With Time-Varying Output Constraints. *Du, P.*, +, *TSMC May 2021 3136-3147*
- Neuro-Fuzzy-Based Adaptive Dynamic Surface Control for Fractional-Order Nonlinear Strict-Feedback Systems With Input Constraint. *Song, S.*, +, *TSMC June 2021 3575-3586*
- Observed-Based Finite-Time Control of Nonlinear Semi-Markovian Jump Systems With Saturation Constraint. *Tian, Y.*, +, *TSMC Nov. 2021 6639-6649*
- Observer-Based Adaptive Event-Triggered Control for Nonstrict-Feedback Nonlinear Systems With Output Constraint and Actuator Failures. *Cao, L.*, +, *TSMC March 2021 1380-1391*
- Observer-Based Containment Control for a Class of Nonlinear Multiagent Systems With Uncertainties. *Yang, Y.*, +, *TSMC Jan. 2021 588-600*
- Output-Based Containment Control for Uncertain Nonaffine Nonlinear Multiagent Systems. *Yang, Y.*, +, *TSMC Oct. 2021 5992-6002*
- Quantized Decentralized Adaptive Neural Network PI Tracking Control for Uncertain Interconnected Nonlinear Systems With Dynamic Uncertainties. *Sun, H.*, +, *TSMC May 2021 3111-3124*
- RBFNN-Based Adaptive Iterative Learning Fault-Tolerant Control for Subway Trains With Actuator Faults and Speed Constraint. *Liu, G.*, +, *TSMC Sept. 2021 5785-5799*
- Reduced-Order Observer-Based Adaptive Fuzzy Tracking Control Scheme of Stochastic Switched Nonlinear Systems. *Niu, B.*, +, *TSMC July 2021 4566-4578*
- Small-Gain Technique-Based Adaptive Neural Output-Feedback Fault-Tolerant Control of Switched Nonlinear Systems With Unmodeled Dynamics. *Ma, L.*, +, *TSMC Nov. 2021 7051-7062*
- Unknown Dynamics Estimator-Based Output-Feedback Control for Nonlinear Pure-Feedback Systems. *Na, J.*, +, *TSMC June 2021 3832-3843*
- Vibration and Position Control of Overhead Crane With Three-Dimensional Variable Length Cable Subject to Input Amplitude and Rate Constraints. *Xing, X.*, +, *TSMC July 2021 4127-4138*
- Control system analysis**
- Stability-Oriented Droop Coefficients Region Identification for Inverters Within Weak Grid: An Impedance-Based Approach. *Wang, R.*, +, *TSMC April 2021 2258-2268*
- Control system CAD**
- A Linear Time-Varying Model Predictive Control-Based Motion Cueing Algorithm for Hexapod Simulation-Based Motion Platform. *Qazani, M.R.C.*, +, *TSMC Oct. 2021 6096-6110*
- Control system security**
- Data-Driven Output-Feedback LQ Secure Control for Unknown Cyber-Physical Systems Against Sparse Actuator Attacks. *Shen, X.*, +, *TSMC Sept. 2021 5708-5720*
- Control system synthesis**
- H_∞ Filtering for Nonhomogeneous Markovian Jump Repeated Scalar Nonlinear Systems With Multiplicative Noises and Partially Mode-Dependent Characterization. *Hua, M.*, +, *TSMC May 2021 3180-3192*
- A Control-Theoretic Study on Iterative Solution to Control Allocation for Over-Actuated Aircraft. *Cui, L.*, +, *TSMC June 2021 3429-3439*
- A Disturbance Rejection Framework for Finite-Time and Fixed-Time Stabilization of Delayed Memristive Neural Networks. *Wang, L.*, +, *TSMC Feb. 2021 905-915*
- A Dynamic Event-Triggered Approach to H_∞ Control for Discrete-Time Singularly Perturbed Systems With Time-Delays and Sensor Saturations. *Ma, L.*, +, *TSMC Nov. 2021 6614-6625*
- A Dynamic Event-Triggered Control Approach to Leader-Following Consensus for Linear Multiagent Systems. *Liu, D.*, +, *TSMC Oct. 2021 6271-6279*

- A Finite-Time Control for a Pneumatic Cylinder Servo System Based on a Super-Twisting Extended State Observer. *Zhao, L., +, TSMC Feb. 2021 1164-1173*
- A Fuzzy Lyapunov Function Approach to Positive L_1 Observer Design for Positive Fuzzy Semi-Markovian Switching Systems With Its Application. *Qi, W., +, TSMC Feb. 2021 775-785*
- A New Filter Design Method for a Class of Fuzzy Systems With Time Delays. *Lian, Z., +, TSMC Oct. 2021 6477-6487*
- A New Fixed-Time Consensus Tracking Approach for Second-Order Multiagent Systems Under Directed Communication Topology. *Ni, J., +, TSMC April 2021 2488-2500*
- A New Switched System Approach to Leader-Follower Consensus of Heterogeneous Linear Multiagent Systems With DoS Attack. *Zhang, D., +, TSMC Feb. 2021 1258-1266*
- A Noise-Enduring and Finite-Time Zeroing Neural Network for Equality-Constrained Time-Varying Nonlinear Optimization. *Xiao, L., +, TSMC Aug. 2021 4729-4740*
- A Novel Finite-Time Control for Nonstrict Feedback Saturated Nonlinear Systems With Tracking Error Constraint. *Sun, K., +, TSMC June 2021 3968-3979*
- A Novel Robust Control Method for Motion Control of Uncertain Single-Link Flexible-Joint Manipulator. *Yan, Z., +, TSMC March 2021 1671-1678*
- A Robust Hybrid of a Feedback Linearization Technique and an Interval Type-2 Fuzzy Control System for the Flapping Angle Dynamics of a Biomimetic Aircraft. *Santos, F., +, TSMC Sept. 2021 5664-5673*
- A Universal Framework of the Generalized Kalman-Yakovich-Popov Lemma for Singular Fractional-Order Systems. *Li, Y., +, TSMC Aug. 2021 5209-5217*
- Adaptive Asymptotic Tracking for a Class of Uncertain Switched Positive Compartmental Models With Application to Anesthesia. *Lv, M., +, TSMC Aug. 2021 4936-4942*
- Adaptive Command Filtered Neuro-Fuzzy Control Design for Fractional-Order Nonlinear Systems With Unknown Control Directions and Input Quantization. *Song, S., +, TSMC Nov. 2021 7238-7249*
- Adaptive Compensation of Persistent Actuator Failures Using Control-Separation-Based LQ Design. *Wen, L., +, TSMC Aug. 2021 5030-5045*
- Adaptive Control for Three-Phase Power Converters With Disturbance Rejection Performance. *Yin, Y., +, TSMC Feb. 2021 674-685*
- Adaptive Control of Full-State Constrained High-Order Nonlinear Systems With Time-Varying Powers. *Guo, C., +, TSMC Aug. 2021 5189-5197*
- Adaptive Fault-Tolerant Control for Attitude Tracking of Flexible Spacecraft With Limited Data Transmission. *Liu, Q., +, TSMC July 2021 4400-4408*
- Adaptive Finite-Time Fuzzy Funnell Control for Nonaffine Nonlinear Systems. *Liu, C., +, TSMC May 2021 2894-2903*
- Adaptive Finite-Time Saturated Tracking Control for a Class of Partially Known Robots. *Hwang, C., +, TSMC Sept. 2021 5674-5685*
- Adaptive Finite-Time Tracking Control for Continuous Stirred Tank Reactor With Time-Varying Output Constraint. *Li, D., +, TSMC Sept. 2021 5929-5934*
- Adaptive Fixed-Time Control of Error-Constrained Pure-Feedback Interconnected Nonlinear Systems. *Zhou, Q., +, TSMC Oct. 2021 6369-6380*
- Adaptive Fuzzy Full-State and Output-Feedback Control for Uncertain Robots With Output Constraint. *Yu, X., +, TSMC Nov. 2021 6994-7007*
- Adaptive High-Order Terminal Sliding Mode Control Based on Time Delay Estimation for the Robotic Manipulators With Backlash Hysteresis. *Ahmed, S., +, TSMC Feb. 2021 1128-1137*
- Adaptive Intelligent Control for Input and Output Constrained High-Order Uncertain Nonlinear Systems. *Sun, W., +, TSMC Sept. 2021 5577-5586*
- Adaptive Inverse Control of a Vibrating Coupled Vessel-Riser System With Input Backlash. *He, X., +, TSMC Aug. 2021 4706-4715*
- Adaptive Leaderless Consensus Control of Strict-Feedback Nonlinear Multiagent Systems With Unknown Control Directions. *Rezaee, H., +, TSMC Oct. 2021 6435-6444*
- Adaptive Neural Discrete-Time Fractional-Order Control for a UAV System With Prescribed Performance Using Disturbance Observer. *Shao, S., +, TSMC Feb. 2021 742-754*
- Adaptive Neural Network Control Design for Uncertain Nonstrict Feedback Nonlinear System With State Constraints. *Ma, L., +, TSMC June 2021 3678-3686*
- Adaptive Neural Network-Based Finite-Time Tracking Control for Nonstrict Nonaffined MIMO Nonlinear Systems. *Li, S., +, TSMC Aug. 2021 4814-4824*
- Adaptive Neural Tracking Control Scheme of Switched Stochastic Nonlinear Pure-Feedback Nonlower Triangular Systems. *Niu, B., +, TSMC Feb. 2021 975-986*
- Adaptive NN Cooperative Control of Unknown Nonlinear Multiagent Systems With Communication Delays. *Psillakis, H.E., TSMC Sept. 2021 5311-5321*
- Adaptive NN Cross Backstepping Control for Nonlinear Systems With Partial Time-Varying State Constraints and Its Applications to Hyper-Chaotic Systems. *Li, D., +, TSMC May 2021 2821-2832*
- Adaptive Nonlinear Hierarchical Control for a Rotorcraft Transporting a Cable-Suspended Payload. *Liang, X., +, TSMC July 2021 4171-4182*
- Adaptive Path Following Control of Unmanned Surface Vehicles Considering Environmental Disturbances and System Constraints. *Liu, Z., +, TSMC Jan. 2021 339-353*
- Adaptive Quantized Control of Output Feedback Nonlinear Systems With Input Unmodeled Dynamics Based on Backstepping and Small-Gain Method. *Xia, X., +, TSMC Sept. 2021 5686-5697*
- Adaptive Sliding Mode Fault-Tolerant Fuzzy Tracking Control With Application to Unmanned Marine Vehicles. *Wang, Y., +, TSMC Nov. 2021 6691-6700*
- Adaptive Tracking Control of FIR Systems Under Binary-Valued Observations and Recursive Projection Identification. *Wang, T., +, TSMC Sept. 2021 5289-5299*
- Adaptive Type-2 FNN-Based Dynamic Sliding Mode Control of DC-DC Boost Converters. *Wang, J., +, TSMC April 2021 2246-2257*
- Adaptively Synchronize the Derivative Coupled Complex Networks With Proportional Delay. *Tang, Z., +, TSMC Aug. 2021 4969-4979*
- Admissibilization for Implicit Jump Systems With Mixed Retarded Delays Based on Reciprocally Convex Integral Inequality and Barbalat's Lemma. *Zhuang, G., +, TSMC Nov. 2021 6808-6818*
- An Input Delay Approach to Interval Type-2 Fuzzy Exponential Stabilization for Nonlinear Unreliable Networked Sampled-Data Control Systems. *Du, Z., +, TSMC June 2021 3488-3497*
- Annular Domain Finite-Time Connective Control for Large-Scale Systems With Expanding Construction. *Liu, Y., +, TSMC Oct. 2021 6159-6169*
- Asymmetric Bounded Neural Control for an Uncertain Robot by State Feedback and Output Feedback. *Kong, L., +, TSMC March 2021 1735-1746*
- Asynchronous Finite-Time Filtering of Markov Jump Nonlinear Systems and Its Applications. *Ren, H., +, TSMC March 2021 1725-1734*
- Asynchronous Stabilization of Boolean Control Networks With Stochastic Switched Signals. *Fang, M., +, TSMC April 2021 2425-2432*
- Attitude Exponential Stabilization Control of Rigid Bodies via Disturbance Observer. *Xiao, B., +, TSMC May 2021 2751-2759*
- Bandwidth Allocation-Based Switched Dynamic Triggering Control Against DoS Attacks. *Hu, S., +, TSMC Oct. 2021 6050-6061*
- Bank of High-Gain Observers in Output Feedback Control: Robustness Analysis Against Measurement Noise. *Esfandiari, K., +, TSMC April 2021 2476-2487*
- Boundary Disturbance Observer-Based Control of a Vibrating Single-Link Flexible Manipulator. *Zhao, Z., +, TSMC April 2021 2382-2390*
- Boundary Output Constrained Control for a Flexible Beam System With Prescribed Performance. *Zhao, Z., +, TSMC Aug. 2021 4650-4658*
- Characteristic Model-Based Control Approach for Complex Network Systems. *Chen, L., +, TSMC June 2021 3599-3607*
- Characteristic Modeling Approach for High-Order Linear Dynamical Systems. *Chen, L., +, TSMC Sept. 2021 5405-5413*
- Cluster Event-Triggered Tracking Cooperative and Formation Control for Multivehicle Systems: An Extended Magnification Region Condition. *Wang, B., TSMC May 2021 3229-3239*
- Co-Design of Quantization and Event-Driven Control for Networked Control Systems. *Liu, X., +, TSMC May 2021 3103-3110*

- Command Filter-Based Adaptive Fuzzy Control for Nonlinear Systems With Unknown Control Directions. *Xia, J.*, +, *TSMC March 2021 1945-1953*
- Command Filter-Based Adaptive Prescribed Performance Tracking Control for Stochastic Uncertain Nonlinear Systems. *Sun, W.*, +, *TSMC Oct. 2021 6555-6563*
- Command Filtered Backstepping-Based Attitude Containment Control for Spacecraft Formation. *Zhao, L.*, +, *TSMC Feb. 2021 1278-1287*
- Consensus of Multiagent Systems With Relative State Saturations. *Chu, H.*, +, *TSMC April 2021 2391-2402*
- Consensus of Multiagent Systems With Time-Varying Input Delay and Relative State Saturation Constraints. *Chu, H.*, +, *TSMC Nov. 2021 6938-6944*
- Consensus of Multiagent Systems With Time-Varying Input Delay via Truncated Predictor Feedback. *Chu, H.*, +, *TSMC Oct. 2021 6062-6073*
- Consensus of One-Sided Lipschitz Multiagents Under Switching Topologies. *Razaq, M.A.*, +, *TSMC March 2021 1485-1495*
- Containment Control of Semi-Markovian Multiagent Systems With Switching Topologies. *Liang, H.*, +, *TSMC June 2021 3889-3899*
- Control Design for Uncertain Switched Nonlinear Systems: Adaptive Neural Approach. *Liu, Z.*, +, *TSMC April 2021 2322-2331*
- Cooperative Consensus for Heterogeneous Nonlinear Multiagent Systems Under a Leader Having Bounded Unknown Inputs. *Wang, B.*, *TSMC Nov. 2021 7075-7086*
- Cooperative Control of Multiple High-Order Agents With Nonidentical Unknown Control Directions Under Fixed and Time-Varying Topologies. *Wang, Q.*, +, *TSMC April 2021 2582-2591*
- Cooperative Event-Based Rigid Formation Control. *Sun, Z.*, +, *TSMC July 2021 4308-4320*
- Cooperative Fault-Tolerant Output Regulation of Linear Heterogeneous Multiagent Systems Under Directed Network Topology. *Deng, C.*, *TSMC Aug. 2021 4773-4781*
- Cooperative Moving-Target Enclosing Control for Multiple Nonholonomic Vehicles Using Feedback Linearization Approach. *Peng, X.*, +, *TSMC Aug. 2021 4929-4935*
- Cooperative Target Enclosing Control of Multiple Mobile Robots Subject to Input Disturbances. *Yu, X.*, +, *TSMC June 2021 3440-3449*
- Coordinated Control of Underwater Biomimetic Vehicle-Manipulator System for Free Floating Autonomous Manipulation. *Cai, M.*, +, *TSMC Aug. 2021 4793-4803*
- Data-Driven Output-Feedback LQ Secure Control for Unknown Cyber-Physical Systems Against Sparse Actuator Attacks. *Shen, X.*, +, *TSMC Sept. 2021 5708-5720*
- Data-Driven Pareto-DE-Based Intelligent Optimal Operational Control for Stochastic Processes. *Yin, L.*, +, *TSMC July 2021 4443-4452*
- Decentralized Event-Triggered Tracking of a Class of Uncertain Interconnected Nonlinear Systems Using Minimal Function Approximators. *Choi, Y.H.*, +, *TSMC March 2021 1766-1778*
- Design and Implementation of Observer-Based Sliding Mode for Underactuated Rendezvous System. *Du, C.*, +, *TSMC Oct. 2021 6003-6014*
- Design of Interval Type-2 Fuzzy-Based Sampled-Data Controller for Nonlinear Systems Using Novel Fuzzy Lyapunov Functional and its Application to PMSM. *Shanmugam, L.*, +, *TSMC Jan. 2021 542-551*
- Design of Observer-Based Event-Triggered Fuzzy ISMC for T-S Fuzzy Model and its Application to PMSG. *Mani, P.*, +, *TSMC April 2021 2221-2231*
- Design of Output-Based Finite-Time Convergent Composite Controller for a Class of Perturbed Second-Order Nonlinear Systems. *Zhu, W.*, +, *TSMC Nov. 2021 6768-6778*
- Design of Sliding-Mode-Based Control for Nonlinear Systems With Mixed-Delays and Packet Losses Under Uncertain Missing Probability. *Hu, J.*, +, *TSMC May 2021 3217-3228*
- Dissipativity-Based Two-Dimensional Control and Filtering for a Class of Switched Systems. *Yang, R.*, +, *TSMC May 2021 2737-2750*
- Distributed Adaptive Tracking Control for Lur'e Systems With Event-Triggered Strategy. *Wu, Z.*, +, *TSMC May 2021 3263-3269*
- Distributed Bipartite Consensus of Linear Multiagent Systems Based on Event-Triggered Output Feedback Control Scheme. *Cai, Y.*, +, *TSMC Nov. 2021 6743-6756*
- Distributed Containment Control of MIMO Pure-Feedback Multiagent Systems Using Filter-Driven-Approximation Approach. *Choi, Y.H.*, +, *TSMC Sept. 2021 5490-5502*
- Distributed Containment Maneuvering of Uncertain Multiagent Systems in MIMO Strict-Feedback Form. *Zhang, Y.*, +, *TSMC Feb. 2021 1354-1364*
- Distributed Control of Networked Nonlinear Systems via Interconnected Takagi-Sugeno Fuzzy Systems With Nonlinear Consequent. *Araujo, R.F.*, +, *TSMC Aug. 2021 4858-4867*
- Distributed Dynamic Averaging Tracking Without Rate Measurements. *Chen, Y.*, +, *TSMC July 2021 4359-4364*
- Distributed Formation Control of Nonholonomic Wheeled Mobile Robots Subject to Longitudinal Slippage Constraints. *Wang, Z.*, +, *TSMC May 2021 2992-3003*
- Distributed Lyapunov-Based Model Predictive Formation Tracking Control for Autonomous Underwater Vehicles Subject to Disturbances. *Wei, H.*, +, *TSMC Aug. 2021 5198-5208*
- Distributed Model-Based Event-Triggered Leader-Follower Consensus Control for Linear Continuous-Time Multiagent Systems. *Zhang, L.*, +, *TSMC Oct. 2021 6457-6465*
- Distributed Optimal Consensus Control for a Class of Uncertain Nonlinear Multiagent Networks With Disturbance Rejection Using Adaptive Technique. *Wang, D.*, +, *TSMC July 2021 4389-4399*
- Distributed Optimal Observer Design of Networked Systems via Adaptive Critic Design. *Fu, H.*, +, *TSMC Nov. 2021 6976-6985*
- Distributed Output-Feedback Tracking of Multiple Nonlinear Systems With Unmeasurable States. *Li, W.*, +, *TSMC Jan. 2021 477-486*
- Distributed Secure Platoon Control of Connected Vehicles Subject to DoS Attack: Theory and Application. *Zhang, D.*, +, *TSMC Nov. 2021 7269-7278*
- Distributed-Observer-Based Nash Equilibrium Seeking Algorithm for Quadratic Games With Nonlinear Dynamics. *Huang, B.*, +, *TSMC Nov. 2021 7260-7268*
- Disturbance Observer-Based Adaptive Finite-Time Attitude Tracking Control for Rigid Spacecraft. *Zhang, J.*, +, *TSMC Nov. 2021 6606-6613*
- Echo State Network-Based Decentralized Control of Continuous-Time Nonlinear Large-Scale Interconnected Systems. *Zhang, H.*, +, *TSMC Oct. 2021 6293-6303*
- Estimate-Based Dynamic Event-Triggered Output Feedback Control of Networked Nonlinear Uncertain Systems. *Sun, J.*, +, *TSMC May 2021 3148-3158*
- Event-Based Formation Coordinated Control for Multiple Spacecraft Under Communication Constraints. *Hu, Q.*, +, *TSMC May 2021 3168-3179*
- Event-Driven Fault Detection for Discrete-Time Interval Type-2 Fuzzy Systems. *Pan, Y.*, +, *TSMC Aug. 2021 4959-4968*
- Event-Triggered H_∞ Filtering for Networked Switched Systems With Packet Disorders. *Qi, Y.*, +, *TSMC May 2021 2847-2859*
- Event-Triggered Adaptive Output Feedback Control of Multivariable Systems With Nonsmooth Actuator Nonlinearities. *Yang, Y.*, +, *TSMC Sept. 2021 5557-5566*
- Event-Triggered Consensus of General Linear Multiagent Systems With Data Sampling and Random Packet Losses. *Wang, F.*, +, *TSMC Feb. 2021 1313-1321*
- Event-Triggered Control for Multiagent Systems With Sensor Faults and Input Saturation. *Cao, L.*, +, *TSMC June 2021 3855-3866*
- Event-Triggered Control for Output Regulation of Probabilistic Logical Systems With Delays. *He, J.*, +, *TSMC Nov. 2021 6842-6851*
- Event-Triggered Distributed H_∞ Constrained Control of Physically Interconnected Large-Scale Partially Unknown Strict-Feedback Systems. *Tan, L.N.*, *TSMC April 2021 2444-2456*
- Event-Triggered H_∞ Depth Control of Remotely Operated Underwater Vehicles. *Batmani, Y.*, +, *TSMC Feb. 2021 1224-1232*
- Event-Triggered Model-Free Adaptive Control. *Lin, N.*, +, *TSMC June 2021 3358-3369*
- Event-Triggered Prescribed Performance Control for a Class of Unknown Nonlinear Systems. *Zhang, J.*, +, *TSMC Oct. 2021 6576-6586*
- Event-Triggered Robust Output Regulation of Uncertain Linear Systems With Unknown Exosystems. *Qian, Y.*, +, *TSMC July 2021 4139-4148*

- Event-Triggered Security Output Feedback Control for Networked Interconnected Systems Subject to Cyber-Attacks. *Gu, Z., +, TSMC Oct. 2021 6197-6206*
- Event-Triggered Sliding Mode Control of Switched Neural Networks With Mode-Dependent Average Dwell Time. *Yan, H., +, TSMC Feb. 2021 1233-1243*
- Experimental Output Regulation of Linear Motor Driven Inverted Pendulum With Friction Compensation. *Ping, Z., +, TSMC June 2021 3751-3758*
- Exponential Stability of Markovian Jumping Systems via Adaptive Sliding Mode Control. *Xu, C., +, TSMC Feb. 2021 954-964*
- Exponentially Stabilizing Observer-Based Feedback Control of a Sampled-Data Linear Parabolic Multiple-Input–Multiple-Output PDE. *Wang, J., TSMC Sept. 2021 5742-5751*
- Extended Dissipativity Performance of High-Speed Train Including Actuator Faults and Probabilistic Time-Delays Under Resilient Reliable Control. *Cao, J., +, TSMC June 2021 3808-3819*
- Fault-Tolerant Control for Dynamic Positioning Vessel With Thruster Faults Based on the Neural Modified Extended State Observer. *Yu, W., +, TSMC Sept. 2021 5905-5917*
- Fault-Tolerant Control of Multilayer Interconnected Nonlinear Systems: An Inclusion Principle Approach. *Xu, Y., +, TSMC April 2021 2403-2414*
- Fault-Tolerant Fuzzy Formation Control for a Class of Nonlinear Multiagent Systems Under Directed and Switching Topology. *Deng, C., +, TSMC Sept. 2021 5456-5465*
- Finite-Time Stabilization of High-Order Stochastic Nonlinear Systems With Asymmetric Output Constraints. *Fang, L., +, TSMC Nov. 2021 7201-7213*
- Finite-Time State Estimation for Delayed Neural Networks With Redundant Delayed Channels. *Zhao, Z., +, TSMC Jan. 2021 441-451*
- Finite-Time Synchronization for Switched Neural Networks via Quantized Feedback Control. *Guan, C., +, TSMC May 2021 2873-2884*
- Finite-Time Synchronization of Memristor-Based Recurrent Neural Networks With Inertial Items and Mixed Delays. *Lu, Z., +, TSMC May 2021 2701-2711*
- Fixed-Time Active Disturbance Rejection Control and Its Application to Wheeled Mobile Robots. *Chang, S., +, TSMC Nov. 2021 7120-7130*
- Fixed-Time Consensus Tracking for Second-Order Multiagent Systems Under Disturbance. *Liu, Y., +, TSMC Aug. 2021 4883-4894*
- Force Sensorless Admittance Control for Teleoperation of Uncertain Robot Manipulator Using Neural Networks. *Yang, C., +, TSMC May 2021 3282-3292*
- Fractional-Order PID Controller Synthesis for Bifurcation of Fractional-Order Small-World Networks. *Xiao, M., +, TSMC July 2021 4334-4346*
- Fully Distributed Self-Triggered Control for Second-Order Consensus of Multiagent Systems. *Xu, W., +, TSMC June 2021 3541-3551*
- Funnel Control of Uncertain High-Order Nonlinear Systems With Unknown Rational Powers. *Liu, Y., +, TSMC Sept. 2021 5732-5741*
- Further Results on Fixed-Time Stabilization and Tracking Control of a Marine Surface Ship Subjected to Output Constraints. *Zhang, Z., +, TSMC Sept. 2021 5300-5310*
- Fusing Skeleton Recognition With Face-TLD for Human Following of Mobile Service Robots. *Yuan, J., +, TSMC May 2021 2963-2979*
- Fuzzy Adaptive Fault-Tolerant Control of Fractional-Order Nonlinear Systems. *Li, Y., +, TSMC March 2021 1372-1379*
- Fuzzy Adaptive Tracking Control for State Constraint Switched Stochastic Nonlinear Systems With Unstable Inverse Dynamics. *Wu, W., +, TSMC Sept. 2021 5522-5534*
- Fuzzy Finite-Time Tracking Control for a Class of Nonaffine Nonlinear Systems With Unknown Dead Zones. *Bao, J., +, TSMC Jan. 2021 452-463*
- Fuzzy-Affine-Model-Based Output Feedback Dynamic Sliding Mode Controller Design of Nonlinear Systems. *Ji, W., +, TSMC March 2021 1652-1661*
- Generalized Lead-Lag H_∞ Compensators for MIMO Linear Systems. *Liu, J.J.R., +, TSMC Oct. 2021 6207-6217*
- Global Adaptive Control for Uncertain Nonlinear Systems With Sensor and Actuator Faults. *Ma, J., +, TSMC Sept. 2021 5503-5510*
- Global Consensus of Positive Edge System With Sector Input Nonlinearities. *Wu, H., +, TSMC July 2021 4057-4066*
- Global Event-Triggered Output Feedback Stabilization of a Class of Nonlinear Systems. *Cheng, Y., +, TSMC July 2021 4040-4047*
- Global Output Feedback Sampled-Data Stabilization of a Class of Switched Nonlinear Systems in the p-Normal Form. *Li, S., +, TSMC Feb. 2021 1075-1084*
- Gradient Descent Algorithm-Based Adaptive NN Control Design for an Induction Motor. *Yang, X., +, TSMC Feb. 2021 1027-1034*
- H_∞ Filtering of Repeated Scalar Nonlinear Systems: Event-Triggered Communication Case. *Li, J., +, TSMC June 2021 3392-3400*
- Hamiltonian-Driven Hybrid Adaptive Dynamic Programming. *Yang, Y., +, TSMC Oct. 2021 6423-6434*
- High-Order Internal Model-Based Iterative Learning Control for 2-D Linear FMMI Systems With Iteration-Varying Trajectory Tracking. *Wan, K., +, TSMC March 2021 1462-1472*
- High-Precision Attitude Tracking Control of Space Manipulator System Under Multiple Disturbances. *Qiao, J., +, TSMC July 2021 4274-4284*
- HMM-Based Asynchronous Controller Design of Markovian Jumping Lur'e Systems Within a Finite-Time Interval. *Nie, R., +, TSMC Nov. 2021 6885-6891*
- Hybrid Disturbance Observer-Based Anti-Disturbance Composite Control With Applications to Mars Landing Mission. *Xu, J., +, TSMC May 2021 2885-2893*
- Hybrid PD-Fuzzy and PD Controllers for Trajectory Tracking of a Quadrotor Unmanned Aerial Vehicle: Autopilot Designs and Real-Time Flight Tests. *Santoso, F., +, TSMC March 2021 1817-1829*
- Impedance Control for Coordinated Robots by State and Output Feedback. *Dong, Y., +, TSMC Aug. 2021 5056-5066*
- Improved Stability Criteria for Discrete-Time Switched T–S Fuzzy Systems. *Fei, Z., +, TSMC Feb. 2021 712-720*
- Impulsive Stabilization of Nonlinear Time-Delay System With Input Saturation via Delay-Dependent Polytopic Approach. *Li, H., +, TSMC Nov. 2021 7087-7098*
- Input–Output Finite-Time Estimation for Complex Networks With Switching Topology Under Dynamic Event-Triggered Transmission. *Sang, H., +, TSMC Oct. 2021 6513-6522*
- Input–Output Finite-Time Reliable Static Output Control of Time-Varying System With Input Delay. *Chen, M., +, TSMC Feb. 2021 1334-1344*
- Input–Output Finite-Time Sliding-Mode Control for T–S Fuzzy Systems With Application. *Qi, W., +, TSMC Sept. 2021 5446-5455*
- Input-to-State Stability of Nonlinear Systems Using Observer-Based Event-Triggered Impulsive Control. *Li, X., +, TSMC Nov. 2021 6892-6900*
- Integrated Synchronization and Anti-Disturbance Control Design for Fuzzy Model-Based Multiweighted Complex Network. *Kaviarasan, B., +, TSMC Oct. 2021 6330-6341*
- Intelligent Leader-Following Consensus Formation Control Using Recurrent Neural Networks for Small-Size Unmanned Helicopters. *Kuo, C., +, TSMC Feb. 2021 1288-1301*
- Interval Type-2 FNN-Based Quantized Tracking Control for Hypersonic Flight Vehicles With Prescribed Performance. *Gao, Y., +, TSMC March 2021 1981-1993*
- Iterative Learning Control for Multiphase Batch Processes With Asynchronous Switching. *Wang, L., +, TSMC April 2021 2536-2549*
- Leader–Follower Trajectory Control for Quadrotors via Tracking Differentiators and Disturbance Observers. *Yang, H., +, TSMC Jan. 2021 601-609*
- Local Stabilization of Continuous-Time T–S Fuzzy Systems With Partly Measurable Premise Variables and Time-Varying Delay. *Wu, Y., +, TSMC Jan. 2021 326-338*
- LPV Scheme for Robust Adaptive Output Feedback Consensus of Lipschitz Multiagents Using Lipschitz Nonlinear Protocol. *Rehman, A.u., +, TSMC Nov. 2021 7040-7050*
- Lyapunov Control Method for Mismatched Uncertainty and Gain Variation Compensation in Switched Systems. *Aghababa, M.P., TSMC July 2021 4227-4237*
- Model Predictive Control-Based Depth Control in Gliding Motion of a Gliding Robotic Dolphin. *Wang, J., +, TSMC Sept. 2021 5466-5477*
- Model-Based Periodic Event-Triggered Control Strategy to Stabilize a Scalar Nonlinear System. *Dou, R., +, TSMC Sept. 2021 5322-5335*

- Multisensor-Based Navigation and Control of a Mobile Service Robot. *Yuan, W.*, +, *TSMC April 2021 2624-2634*
- Necessary and Sufficient Conditions for Consensus in Fractional-Order Multiagent Systems via Sampled Data Over Directed Graph. *Su, H.*, +, *TSMC April 2021 2501-2511*
- Neural Integral Backstepping Hierarchical Sliding Mode Control for a Rideable Ballbot Under Uncertainties and Input Saturation. *Do, V.*, +, *TSMC Nov. 2021 7214-7227*
- Neural Network-Based Adaptive Fault-Tolerant Control for Markovian Jump Systems With Nonlinearity and Actuator Faults. *Yang, H.*, +, *TSMC June 2021 3687-3698*
- Neural Network-Based Sampled-Data Control for Switched Uncertain Nonlinear Systems. *Li, S.*, +, *TSMC Sept. 2021 5437-5445*
- Neural Networks-Based Fault Tolerant Control of a Robot via Fast Terminal Sliding Mode. *Zhang, S.*, +, *TSMC July 2021 4091-4101*
- Neural-Based Decentralized Adaptive Finite-Time Control for Nonlinear Large-Scale Systems With Time-Varying Output Constraints. *Du, P.*, +, *TSMC May 2021 3136-3147*
- Neuro-Fuzzy-Based Adaptive Dynamic Surface Control for Fractional-Order Nonlinear Strict-Feedback Systems With Input Constraint. *Song, S.*, +, *TSMC June 2021 3575-3586*
- New Noise-Tolerant ZNN Models With Predefined-Time Convergence for Time-Variant Sylvester Equation Solving. *Xiao, L.*, +, *TSMC June 2021 3629-3640*
- New Stability Conditions for Switched Linear Systems: A Reverse-Timer-Dependent Multiple Discontinuous Lyapunov Function Approach. *Li, Y.*, +, *TSMC Oct. 2021 6564-6575*
- Nonfragile Consensus of Multiagent Systems Based on Memory Sampled-Data Control. *Ge, C.*, +, *TSMC Jan. 2021 391-399*
- Nonfragile Observer-Based Control for Markovian Jump Systems Subject to Asynchronous Modes. *Tao, J.*, +, *TSMC June 2021 3533-3540*
- Nonfragile Sampled-Data Filtering of Uncertain Fuzzy Systems With Time-Varying Delays. *Luo, J.*, +, *TSMC Aug. 2021 4993-5004*
- Nonlinear Control of Quadrotor for Fault Tolerance: A Total Failure of One Actuator. *Wu, Y.*, +, *TSMC May 2021 2810-2820*
- Novel Resilient Structure of Output Formation Tracking of Heterogeneous Systems With Unknown Leader Under Contested Environments. *Li, Q.*, +, *TSMC Nov. 2021 6819-6829*
- Observed-Based Finite-Time Control of Nonlinear Semi-Markovian Jump Systems With Saturation Constraint. *Tian, Y.*, +, *TSMC Nov. 2021 6639-6649*
- Observer-Based Containment Control for a Class of Nonlinear Multiagent Systems With Uncertainties. *Yang, Y.*, +, *TSMC Jan. 2021 588-600*
- Observer-Based Finite-Time Control for Distributed Path Maneuvering of Underactuated Unmanned Surface Vehicles With Collision Avoidance and Connectivity Preservation. *Gu, N.*, +, *TSMC Aug. 2021 5105-5115*
- On Finite-Duration Convergent Attracting Laws. *Sun, M.*, +, *TSMC Aug. 2021 5017-5029*
- On the Principle and Applications of Conditional Disturbance Negation. *Pu, Z.*, +, *TSMC Nov. 2021 6757-6767*
- Optimal Output Synchronization Control of a Class of Complex Dynamical Networks With Partially Unknown System Dynamics. *Wang, N.*, +, *TSMC Feb. 2021 822-832*
- Output Consensus of Multiagent Systems Based on PDEs With Input Constraint: A Boundary Control Approach. *Yang, C.*, +, *TSMC Jan. 2021 370-377*
- Output Tracking of Uncertain Nonminimum Phase Systems by Experience Replay. *Ye, L.*, +, *TSMC May 2021 3159-3167*
- Output-Based Containment Control for Uncertain Nonaffine Nonlinear Multiagent Systems. *Yang, Y.*, +, *TSMC Oct. 2021 5992-6002*
- Output-Feedback Adaptive Control of Nonlinear Systems With Input-Output-Dependent Lower-Triangular Growth Rate: A Logic-Based Switching Approach. *Huang, C.*, +, *TSMC Aug. 2021 4804-4813*
- Output-Feedback-Based Consensus Control Without Continuous Interagent Communication. *Shih, C.*, +, *TSMC May 2021 3240-3250*
- Partial-Nodes-Based Scalable H_∞ -Consensus Filtering With Censored Measurements Over Sensor Networks. *Han, F.*, +, *TSMC March 2021 1892-1903*
- Position-Tracking Controller for Two-Wheeled Balancing Robot Applications Using Invariant Dynamic Surface. *Kim, S.*, +, *TSMC Feb. 2021 705-711*
- Predefined-Time Consensus Tracking of Second-Order Multiagent Systems. *Ni, J.*, +, *TSMC April 2021 2550-2560*
- Predictive Cloud Control for Networked Multiagent Systems With Quantized Signals Under DoS Attacks. *Yang, H.*, +, *TSMC Feb. 2021 1345-1353*
- Prescribed Performance Neuroadaptive Fault-Tolerant Compensation for MIMO Nonlinear Systems Under Extreme Actuator Failures. *Zhou, S.*, +, *TSMC Sept. 2021 5427-5436*
- Quantized Control of Networked Control Systems Under Stochastic Clock Offsets. *Sun, H.*, +, *TSMC May 2021 3004-3013*
- Quantized Decentralized Adaptive Neural Network PI Tracking Control for Uncertain Interconnected Nonlinear Systems With Dynamic Uncertainties. *Sun, H.*, +, *TSMC May 2021 3111-3124*
- Quantized Sliding Mode Control of Unmanned Marine Vehicles: Various Thruster Faults Tolerated With a Unified Model. *Hao, L.*, +, *TSMC March 2021 2012-2026*
- Quantized Static Output Feedback Fuzzy Tracking Control for Discrete-Time Nonlinear Networked Systems With Asynchronous Event-Triggered Constraints. *Li, Z.*, +, *TSMC June 2021 3820-3831*
- Quasi-Consensus Control for a Class of Time-Varying Stochastic Nonlinear Time-Delay Multiagent Systems Subject to Deception Attacks. *Liu, L.*, +, *TSMC Nov. 2021 6863-6873*
- Quasi-Synchronization for Periodic Neural Networks With Asynchronous Target and Constrained Information. *Xu, Y.*, +, *TSMC July 2021 4379-4388*
- Reduced Adaptive Fuzzy Tracking Control for High-Order Stochastic Nonstrict Feedback Nonlinear System With Full-State Constraints. *Sun, W.*, +, *TSMC March 2021 1496-1506*
- Reduced-Order Estimator-Based Efficient Fault-Tolerant Tracking Control Optimization for Constrained LPV Systems. *Han, K.*, +, *TSMC Sept. 2021 5855-5866*
- Reduced-Order Observer-Based Adaptive Fuzzy Tracking Control Scheme of Stochastic Switched Nonlinear Systems. *Niu, B.*, +, *TSMC July 2021 4566-4578*
- Relay Tracking Controller Design for Multiagent Systems With Varying Number of Agents. *Dong, L.*, +, *TSMC Oct. 2021 6147-6158*
- Reliable Control for Vehicle Active Suspension Systems Under Event-Triggered Scheme With Frequency Range Limitation. *Fei, Z.*, +, *TSMC March 2021 1630-1641*
- Reliable Fuzzy H_∞ Control for Permanent Magnet Synchronous Motor Against Stochastic Actuator Faults. *Vadivel, R.*, +, *TSMC April 2021 2232-2245*
- Removing Feasibility Conditions on Tracking Control of Full-State Constrained Nonlinear Systems With Time-Varying Powers. *Xie, X.*, +, *TSMC Oct. 2021 6535-6543*
- Reset Control for Consensus of Multiagent Systems With Asynchronous Sampling. *Zhao, G.*, +, *TSMC Aug. 2021 4911-4919*
- Resilient H_∞ Filtering for Event-Triggered Networked Systems Under Nonperiodic DoS Jamming Attacks. *Hu, S.*, +, *TSMC March 2021 1392-1403*
- Resilient Load Frequency Control of Cyber-Physical Power Systems Under QoS-Dependent Event-Triggered Communication. *Sun, H.*, +, *TSMC April 2021 2113-2122*
- RISE-Based Integrated Motion Control of Autonomous Ground Vehicles With Asymptotic Prescribed Performance. *Hu, C.*, +, *TSMC Sept. 2021 5336-5348*
- Robust Adaptive Control for State-Constrained Nonlinear Systems With Input Saturation and Unknown Control Direction. *Wu, Y.*, +, *TSMC Feb. 2021 1192-1202*
- Robust Adaptive Neural Control of Nonminimum Phase Hypersonic Vehicle Model. *Xu, B.*, +, *TSMC Feb. 2021 1107-1115*
- Robust Distributed Formation Controller Design for a Group of Unmanned Underwater Vehicles. *Liu, H.*, +, *TSMC Feb. 2021 1215-1223*

- Robust Exact Predictive Scheme for Output-Feedback Control of Input-Delay Systems With Unmatched Sinusoidal Disturbances. *Shi, S.*, +, *TSMC Sept. 2021 5357-5366*
- Robust H_∞ Sliding Mode Controller Design of a Class of Time-Delayed Discrete Conic-Type Nonlinear Systems. *He, S.*, +, *TSMC Feb. 2021 885-892*
- Robust Iterative Learning Control of 2-D Linear Discrete FMMII Systems Subject to Iteration-Dependent Uncertainties. *Wan, K.*, +, *TSMC Oct. 2021 5949-5961*
- Robust LMI-Based H-Infinite Controller Integrating AFS and DYC of Autonomous Vehicles With Parametric Uncertainties. *Cheng, S.*, +, *TSMC Nov. 2021 6901-6910*
- Robust Resilient Control Based on Multi-Approximator for the Uncertain Turbofan System With Unmeasured States and Disturbances. *Li, Y.*, +, *TSMC Oct. 2021 6040-6049*
- Robust Stabilization of High-Order Nonlinear Systems With Unknown Sensitivities and Applications in Humanoid Robot Manipulation. *Sun, Z.*, +, *TSMC July 2021 4409-4416*
- Robust Vehicle Driver Assistance Control for Handover Scenarios Considering Driving Performances. *Chen, Y.*, +, *TSMC July 2021 4160-4170*
- Second-Order Sliding Mode Controller Design Subject to an Upper-Triangular Structure. *Mei, K.*, +, *TSMC Jan. 2021 497-507*
- Security Control for T-S Fuzzy Systems With Adaptive Event-Triggered Mechanism and Multiple Cyber-Attacks. *Liu, J.*, +, *TSMC Oct. 2021 6544-6554*
- Semiglobal Observer-Based Positive Scaled Edge-Consensus of Networked Discrete-Time Systems Under Actuator Saturation. *Sun, Y.*, +, *TSMC July 2021 4543-4554*
- Sliding Mode Control for a Class of Nonlinear Singular Systems With Partly Immeasurable Premise Variables. *Sun, X.*, +, *TSMC April 2021 2433-2443*
- Sliding Mode Control for Markov Jump Systems With Delays via Asynchronous Approach. *Fang, M.*, +, *TSMC May 2021 2916-2925*
- Sliding Mode Controller Design for Conic-Type Nonlinear Semi-Markovian Jumping Systems of Time-Delayed Chua's Circuit. *Nie, R.*, +, *TSMC April 2021 2467-2475*
- Sliding-Mode Observer-Based Fault Reconstruction for T-S Fuzzy Descriptor Systems. *Li, R.*, +, *TSMC Aug. 2021 5046-5055*
- Small-Gain Technique-Based Adaptive Neural Output-Feedback Fault-Tolerant Control of Switched Nonlinear Systems With Unmodeled Dynamics. *Ma, L.*, +, *TSMC Nov. 2021 7051-7062*
- Soft-Bound Interval Control System and Its Robust Fault-Tolerant Controller Design. *Zhou, J.*, +, *TSMC Jan. 2021 378-390*
- Stability Analysis for Input Saturated Discrete-Time Switched Systems With Average Dwell-Time. *Wang, Q.*, +, *TSMC Jan. 2021 412-419*
- Stability Analysis of Complex Network Control System With Dynamical Topology and Delays. *Li, M.*, +, *TSMC Nov. 2021 7228-7237*
- Stability and ℓ_1 -Gain Analysis for Switched Positive Systems With MDADT Based on Quasi-Time-Dependent Approach. *Li, X.*, +, *TSMC Sept. 2021 5846-5854*
- Stability and Stabilization for T-S Fuzzy Large-Scale Interconnected Power System With Wind Farm via Sampled-Data Control. *Shanmugam, L.*, +, *TSMC April 2021 2134-2144*
- Stability-Guaranteed Variable Impedance Control of Robots Based on Approximate Dynamic Inversion. *Sun, T.*, +, *TSMC July 2021 4193-4200*
- Stability-Oriented Droop Coefficients Region Identification for Inverters Within Weak Grid: An Impedance-Based Approach. *Wang, R.*, +, *TSMC April 2021 2258-2268*
- Stabilization and Finite-Time Stabilization of Probabilistic Boolean Control Networks. *Wang, L.*, +, *TSMC March 2021 1559-1566*
- Stabilization of Networked Control Systems With Hybrid-Driven Mechanism and Probabilistic Cyber Attacks. *Liu, J.*, +, *TSMC Feb. 2021 943-953*
- Stable Adaptive Controller Based on Generalized Regression Neural Networks and Sliding Mode Control for a Class of Nonlinear Time-Varying Systems. *Al-Mahasneh, A.J.*, +, *TSMC April 2021 2525-2535*
- Suboptimal Control and Targeted Constant Control for Semi-Random Epidemic Networks. *Li, K.*, +, *TSMC April 2021 2602-2610*
- Synchronization of Resilient Complex Networks Under Attacks. *Wang, P.*, +, *TSMC Feb. 2021 1116-1127*
- Targeting Posture Control With Dynamic Obstacle Avoidance of Constrained Uncertain Wheeled Mobile Robots Including Unknown Skidding and Slipping. *Lu, Q.*, +, *TSMC Nov. 2021 6650-6659*
- The Set-Invariance Paradigm in Fuzzy Adaptive DSC Design of Large-Scale Nonlinear Input-Constrained Systems. *Lv, M.*, +, *TSMC Feb. 2021 1035-1045*
- Threshold-Function-Dependent Quasi-Synchronization of Delayed Memristive Neural Networks via Hybrid Event-Triggered Control. *Yan, Z.*, +, *TSMC Nov. 2021 6712-6722*
- Time-Scale Redesign-Based Saturated Controller Synthesis for a Class of MIMO Nonlinear Systems. *Rayguru, M.M.*, +, *TSMC Aug. 2021 4681-4692*
- Trajectory Tracking Control of Autonomous Underwater Vehicle With Unknown Parameters and External Disturbances. *Yang, X.*, +, *TSMC Feb. 2021 1054-1063*
- Two Hybrid Multiobjective Motion Planning Schemes Synthesized by Recurrent Neural Networks for Wheeled Mobile Robot Manipulators. *Zhang, Z.*, +, *TSMC May 2021 3270-3281*
- Two-Dimensional Iterative Learning Model Predictive Control for Batch Processes: A New State Space Model Compensation Approach. *Zhang, R.*, +, *TSMC Feb. 2021 833-841*
- Twofold Sliding Controller Design for Uncertain Switched Nonlinear Systems. *Aghababa, M.P.*, *TSMC Feb. 2021 1203-1214*
- Underwater Target Tracking Control of an Untethered Robotic Fish With a Camera Stabilizer. *Yu, J.*, +, *TSMC Oct. 2021 6523-6534*
- Unknown Dynamics Estimator-Based Output-Feedback Control for Nonlinear Pure-Feedback Systems. *Na, J.*, +, *TSMC June 2021 3832-3843*
- Variable Cut-Off Frequency Algorithm-Based Nonlinear Position Controller for Magnetic Levitation System Applications. *Kim, S.*, +, *TSMC July 2021 4599-4605*
- Vibration and Position Control of Overhead Crane With Three-Dimensional Variable Length Cable Subject to Input Amplitude and Rate Constraints. *Xing, X.*, +, *TSMC July 2021 4127-4138*
- Visual Servoing of a Flexible Aerial Refueling Boom With an Eye-in-Hand Camera. *Cui, L.*, +, *TSMC Oct. 2021 6282-6292*
- Control systems**
- H_∞ Control for Observer-Based Non-Negative Scaled Edge-Consensus of Networked Systems. *Sun, Y.*, +, *TSMC Dec. 2021 7801-7812*
- H_∞ Output Anti-Disturbance Control of Stochastic Markov Jump Systems With Multiple Disturbances. *Shen, M.*, +, *TSMC Dec. 2021 7633-7643*
- Adaptive Backstepping Control for Fractional-Order Nonlinear Systems With External Disturbance and Uncertain Parameters Using Smooth Control. *Li, X.*, +, *TSMC Dec. 2021 7860-7869*
- Event-Triggered Model Predictive Control With a Statistical Learning. *Yoo, J.*, +, *TSMC April 2021 2571-2581*
- Event-Triggered Output Regulation for Networked Flight Control System Based on an Asynchronous Switched System Approach. *Li, L.*, +, *TSMC Dec. 2021 7675-7684*
- Global Predefined Time and Accuracy Adaptive Neural Network Control for Uncertain Strict-Feedback Systems With Output Constraint and Dead Zone. *Ni, J.*, +, *TSMC Dec. 2021 7903-7918*
- Networked Dual-Mode Adaptive Horizon MPC for Constrained Nonlinear Systems. *Li, P.*, +, *TSMC Dec. 2021 7435-7449*
- Stability Analysis of Discrete-Time Polynomial Fuzzy-Model-Based Control Systems With Time Delay and Positivity Constraints Through Piecewise Taylor Series Membership Functions. *Li, X.*, +, *TSMC Dec. 2021 7517-7529*
- Control theory**
- Exponential Stability of Delayed Generalized Neural Networks With Intermittent Large-Delay Periods. *Yang, B.*, +, *TSMC Dec. 2021 7392-7402*
- Controllability**
- Asynchronous Stabilization of Boolean Control Networks With Stochastic Switched Signals. *Fang, M.*, +, *TSMC April 2021 2425-2432*
- Stabilization and Finite-Time Stabilization of Probabilistic Boolean Control Networks. *Wang, L.*, +, *TSMC March 2021 1559-1566*

Topological Structure, Reachability, and Stabilization of Constrained Boolean Control Networks via Event-Triggered Control. *Lin, L., +, TSMC June 2021 3565-3574*

Convergence

A Nesterov-Like Gradient Tracking Algorithm for Distributed Optimization Over Directed Networks. *Lu, Q., +, TSMC Oct. 2021 6258-6270*

A New Fixed-Time Consensus Tracking Approach for Second-Order Multiagent Systems Under Directed Communication Topology. *Ni, J., +, TSMC April 2021 2488-2500*

A Noise-Enduring and Finite-Time Zeroing Neural Network for Equality-Constrained Time-Varying Nonlinear Optimization. *Xiao, L., +, TSMC Aug. 2021 4729-4740*

A Strictly Predefined-Time Convergent Neural Solution to Equality- and Inequality-Constrained Time-Variant Quadratic Programming. *Li, W., +, TSMC July 2021 4028-4039*

Adaptive Estimation of Time-Varying Parameters With Application to Roto-Magnet Plant. *Na, J., +, TSMC Feb. 2021 731-741*

Adaptive Finite-Time Saturated Tracking Control for a Class of Partially Known Robots. *Hwang, C., +, TSMC Sept. 2021 5674-5685*

Adaptive High-Order Terminal Sliding Mode Control Based on Time Delay Estimation for the Robotic Manipulators With Backlash Hysteresis. *Ahmed, S., +, TSMC Feb. 2021 1128-1137*

Adaptive Tracking Control of FIR Systems Under Binary-Valued Observations and Recursive Projection Identification. *Wang, T., +, TSMC Sept. 2021 5289-5299*

Auxiliary Constrained Control of a Class of Fault-Tolerant Systems. *Jin, X., +, TSMC April 2021 2272-2283*

Convergence of Distributed Accelerated Algorithm Over Unbalanced Directed Networks. *Li, H., +, TSMC Aug. 2021 5153-5164*

Cooperative Event-Based Rigid Formation Control. *Sun, Z., +, TSMC July 2021 4308-4320*

Distributed Composite Optimization Over Relay-Assisted Networks. *Shi, C., +, TSMC Oct. 2021 6587-6598*

Distributed Dynamic Averaging Tracking Without Rate Measurements. *Chen, Y., +, TSMC July 2021 4359-4364*

Distributed Optimal Consensus Control for a Class of Uncertain Nonlinear Multiagent Networks With Disturbance Rejection Using Adaptive Technique. *Wang, D., +, TSMC July 2021 4389-4399*

Distributed Optimal Consensus for Euler-Lagrange Systems Based on Event-Triggered Control. *Wang, Q., +, TSMC July 2021 4588-4598*

Distributed Tracking for Discrete-Time Multiagent Networks via an Ultrafast Control Protocol. *Zhang, W., +, TSMC Dec. 2021 7542-7552*

Event-Triggered Model Predictive Control for Multiagent Systems With Communication Constraints. *Li, L., +, TSMC May 2021 3304-3316*

Finite-Time Stabilization of High-Order Stochastic Nonlinear Systems With Asymmetric Output Constraints. *Fang, L., +, TSMC Nov. 2021 7201-7213*

Global Predefined Time and Accuracy Adaptive Neural Network Control for Uncertain Strict-Feedback Systems With Output Constraint and Dead Zone. *Ni, J., +, TSMC Dec. 2021 7903-7918*

Global Social Cost Minimization With Possibly Nonconvex Objective Functions: An Extremum Seeking-Based Approach. *Ye, M., +, TSMC Dec. 2021 7413-7422*

New Noise-Tolerant Neural Algorithms for Future Dynamic Nonlinear Optimization With Estimation on Hessian Matrix Inversion. *Wei, L., +, TSMC April 2021 2611-2623*

New Noise-Tolerant ZNN Models With Predefined-Time Convergence for Time-Variant Sylvester Equation Solving. *Xiao, L., +, TSMC June 2021 3629-3640*

Nonlinear Pose Filters on the Special Euclidean Group SE(3) With Guaranteed Transient and Steady-State Performance. *Hashim, H.A., +, TSMC May 2021 2949-2962*

Observer-Based Sampled-Data Model-Free Adaptive Control for Continuous-Time Nonlinear Nonaffine Systems With Input Rate Constraints. *Hui, Y., +, TSMC Dec. 2021 7813-7822*

Output-Feedback-Based Consensus Control Without Continuous Interagent Communication. *Shih, C., +, TSMC May 2021 3240-3250*

Random Sleep Scheme-Based Distributed Optimization Algorithm Over Unbalanced Time-Varying Networks. *Li, H., +, TSMC Aug. 2021 5244-5253*

Robust Fixed-Time Consensus Tracking Control of High-Order Multiple Nonholonomic Systems. *Shi, S., +, TSMC March 2021 1869-1880*

Robust Iterative Learning Control of 2-D Linear Discrete FMMII Systems Subject to Iteration-Dependent Uncertainties. *Wan, K., +, TSMC Oct. 2021 5949-5961*

Scaled Tracking Consensus in Discrete-Time Second-Order Multiagent Systems With Random Packet Dropouts. *Shi, L., +, TSMC Dec. 2021 7745-7751*

Second-Order Consensus of Hybrid Multiagent Systems. *Su, H., +, TSMC Oct. 2021 6503-6512*

Serial-Parallel Estimation Model-Based Sliding Mode Control of MEMS Gyroscopes. *Zhang, R., +, TSMC Dec. 2021 7764-7775*

Solving Many-Objective Optimization Problems via Multistage Evolutionary Search. *Chen, H., +, TSMC June 2021 3552-3564*

The Effective Cooperative Diffusion Strategies With Adaptation Ability by Learning Across Adaptive Network-Wide Systems. *Xiong, N., +, TSMC July 2021 4112-4126*

Convergence of numerical methods

Distributed Algorithms for Average Consensus of Input Data With Fast Convergence. *Xie, K., +, TSMC May 2021 2653-2664*

Distributed Resource Allocation Over Directed Graphs via Continuous-Time Algorithms. *Zhu, Y., +, TSMC Feb. 2021 1097-1106*

High-Order Internal Model-Based Iterative Learning Control for 2-D Linear FMMI Systems With Iteration-Varying Trajectory Tracking. *Wan, K., +, TSMC March 2021 1462-1472*

Nonlinear Control of Quadrotor for Fault Tolerance: A Total Failure of One Actuator. *Wu, Y., +, TSMC May 2021 2810-2820*

Random Sleep Scheme-Based Distributed Optimization Algorithm Over Unbalanced Time-Varying Networks. *Li, H., +, TSMC Aug. 2021 5244-5253*

Robust Model Predictive Iterative Learning Control for Iteration-Varying-Reference Batch Processes. *Liu, X., +, TSMC July 2021 4238-4250*

Convex programming

A Dynamic Event-Triggered Approach to H_∞ Control for Discrete-Time Singularly Perturbed Systems With Time-Delays and Sensor Saturations. *Ma, L., +, TSMC Nov. 2021 6614-6625*

A Nesterov-Like Gradient Tracking Algorithm for Distributed Optimization Over Directed Networks. *Lu, Q., +, TSMC Oct. 2021 6258-6270*

An Accelerated Distributed Gradient-Based Algorithm for Constrained Optimization With Application to Economic Dispatch in a Large-Scale Power System. *Guo, F., +, TSMC April 2021 2041-2053*

Continuous-Time Algorithm for Approximate Distributed Optimization With Affine Equality and Convex Inequality Constraints. *Jiang, X., +, TSMC Sept. 2021 5809-5818*

Control Design for Uncertain Switched Nonlinear Systems: Adaptive Neural Approach. *Liu, Z., +, TSMC April 2021 2322-2331*

Convergence of Distributed Accelerated Algorithm Over Unbalanced Directed Networks. *Li, H., +, TSMC Aug. 2021 5153-5164*

Design of Observer-Based Event-Triggered Fuzzy ISMC for T-S Fuzzy Model and its Application to PMSG. *Mani, P., +, TSMC April 2021 2221-2231*

Distributed Continuous-Time Optimization of Second-Order Multiagent Systems With Nonconvex Input Constraints. *Mo, L., +, TSMC Oct. 2021 6404-6413*

Distributed Fusion Estimation for Unstable Systems With Quantized Innovations. *Xiang, B., +, TSMC Oct. 2021 6381-6387*

Distributed Resource Allocation Over Directed Graphs via Continuous-Time Algorithms. *Zhu, Y., +, TSMC Feb. 2021 1097-1106*

Distributed Robust Adaptive Optimization for Nonlinear Multiagent Systems. *Liu, Y., +, TSMC Feb. 2021 1046-1053*

Event-Driven Fault Detection for Discrete-Time Interval Type-2 Fuzzy Systems. *Pan, Y., +, TSMC Aug. 2021 4959-4968*

- Finite-Time Dissipative Synchronization for Markovian Jump Generalized Inertial Neural Networks With Reaction–Diffusion Terms. *Song, X., +, TSMC June 2021 3650-3661*
- Optimal Load Frequency Control for Networked Power Systems Based on Distributed Economic MPC. *Jia, Y., +, TSMC April 2021 2123-2133*
- Optimal Stealthy Innovation-Based Attacks With Historical Data in Cyber-Physical Systems. *Li, Y., +, TSMC June 2021 3401-3411*
- Random Sleep Scheme-Based Distributed Optimization Algorithm Over Unbalanced Time-Varying Networks. *Li, H., +, TSMC Aug. 2021 5244-5253*
- Time-Optimal Point Stabilization Control for WIP Vehicles Using Quasi-Convex Optimization and B-Spline Adaptive Interpolation Techniques. *Ning, Y., +, TSMC May 2021 3293-3303*
- Convolutional neural networks**
- A Real-Time Robotic Grasping Approach With Oriented Anchor Box. *Zhang, H., +, TSMC May 2021 3014-3025*
- Artificial Vision by Deep CNN Neocognitron. *Fukushima, K., TSMC Jan. 2021 76-90*
- Multialgorithm Fusion Image Processing for High Speed Railway Dropper Failure–Defect Detection. *Tan, P., +, TSMC July 2021 4466-4478*
- Multilabel Image Classification via Feature/Label Co-Projection. *Wen, S., +, TSMC Nov. 2021 7250-7259*
- Multiscale Multipath Ensemble Convolutional Neural Network. *Wang, X., +, TSMC Sept. 2021 5918-5928*
- Quality Inspection Based on Quadrangular Object Detection for Deep Aperture Component. *Zhang, J., +, TSMC Oct. 2021 5938-5948*
- Cost function**
- Global Social Cost Minimization With Possibly Nonconvex Objective Functions: An Extremum Seeking-Based Approach. *Ye, M., +, TSMC Dec. 2021 7413-7422*
- Cost optimal control**
- Suboptimal Control and Targeted Constant Control for Semi-Random Epidemic Networks. *Li, K., +, TSMC April 2021 2602-2610*
- Cost reduction**
- System-Level Prognostics Under Mission Profile Effects Using Inoperability Input–Output Model. *Tamssaouet, F., +, TSMC Aug. 2021 4659-4669*
- Wrapper Framework for Test-Cost-Sensitive Feature Selection. *Jiang, L., +, TSMC March 2021 1747-1756*
- Couplings**
- Distributed Consensus Control of Linear Multiagent Systems With Adaptive Nonlinear Couplings. *Wei, B., +, TSMC Feb. 2021 1365-1370*
- Output Homogenization and Synchronization of Heterogeneous Nonlinear Multiagent Networks. *Wei, Y., +, TSMC Dec. 2021 7295-7304*
- Covariance analysis**
- Distributed Covariance Intersection Fusion Estimation With Delayed Measurements and Unknown Inputs. *Yu, D., +, TSMC Aug. 2021 5165-5173*
- Estimation for Networked Random Sampling Systems With Packet Losses. *Lin, H., +, TSMC Sept. 2021 5511-5521*
- Covariance matrices**
- Detection of Data Integrity Attacks in Distributed State Estimation. *Xia, Y., +, TSMC Dec. 2021 7735-7744*
- Distributed Covariance Intersection Fusion Estimation With Delayed Measurements and Unknown Inputs. *Yu, D., +, TSMC Aug. 2021 5165-5173*
- Distributed Fusion Estimation for Multisensor Multirate Systems With Packet Dropout Compensations and Correlated Noises. *Tian, T., +, TSMC Sept. 2021 5762-5772*
- Event-Based Distributed Adaptive Kalman Filtering With Unknown Covariance of Process Noises. *Mao, J., +, TSMC Oct. 2021 6170-6182*
- Measures of Scatter and Fisher Discriminant Analysis for Uncertain Data. *Tavakkol, B., +, TSMC March 2021 1690-1703*
- Minimum Error Entropy Kalman Filter. *Chen, B., +, TSMC Sept. 2021 5819-5829*
- Muscle-Synergies-Based Neuromuscular Control for Motion Learning and Generalization of a Musculoskeletal System. *Chen, J., +, TSMC June 2021 3993-4006*
- Recursive Filtering of Distributed Cyber-Physical Systems With Attack Detection. *Ding, D., +, TSMC Oct. 2021 6466-6476*
- Robust Particle Filtering With Time-Varying Model Uncertainty and Inaccurate Noise Covariance Matrix. *Li, W., +, TSMC Nov. 2021 7099-7108*
- Cranes**
- Vibration and Position Control of Overhead Crane With Three-Dimensional Variable Length Cable Subject to Input Amplitude and Rate Constraints. *Xing, X., +, TSMC July 2021 4127-4138*
- Critical infrastructures**
- Synchronization of Resilient Complex Networks Under Attacks. *Wang, P., +, TSMC Feb. 2021 1116-1127*
- Cruise control**
- Distributed Velocity and Input Constrained Tracking Control of High-Speed Train Systems. *Lin, P., +, TSMC Dec. 2021 7882-7888*
- Cryptography**
- An Efficient Lightweight Authentication Scheme With Adaptive Resilience of Asynchronization Attacks for Wireless Sensor Networks. *Xiong, L., +, TSMC Sept. 2021 5626-5638*
- Curve fitting**
- 3-D Path Planning With Multiple Motions for a Gliding Robotic Dolphin. *Wang, J., +, TSMC May 2021 2904-2915*
- Cyber-physical systems**
- Cyber-Physical Attacks Against State Estimators Based on a Finite Frequency Approach. *Wu, Y., +, TSMC Feb. 2021 864-874*
- Data-Driven Output-Feedback LQ Secure Control for Unknown Cyber-Physical Systems Against Sparse Actuator Attacks. *Shen, X., +, TSMC Sept. 2021 5708-5720*
- Distributed Covariance Intersection Fusion Estimation With Delayed Measurements and Unknown Inputs. *Yu, D., +, TSMC Aug. 2021 5165-5173*
- Optimal Stealthy Innovation-Based Attacks With Historical Data in Cyber-Physical Systems. *Li, Y., +, TSMC June 2021 3401-3411*
- Optimal Switching Attacks and Countermeasures in Cyber-Physical Systems. *Wu, G., +, TSMC Aug. 2021 4825-4835*
- Recursive Filtering of Distributed Cyber-Physical Systems With Attack Detection. *Ding, D., +, TSMC Oct. 2021 6466-6476*
- Resilience Indices for Power/Cyberphysical Systems. *Talukder, S., +, TSMC April 2021 2159-2172*
- Resilient State Estimation of Cyber-Physical System With Multichannel Transmission Under DoS Attack. *Yuan, H., +, TSMC Nov. 2021 6926-6937*
- Cybernetics**
- H_∞ Control for Observer-Based Non-Negative Scaled Edge-Consensus of Networked Systems. *Sun, Y., +, TSMC Dec. 2021 7801-7812*
- AUC-Based Extreme Learning Machines for Supervised and Semi-Supervised Imbalanced Classification. *Wang, G., +, TSMC Dec. 2021 7919-7930*
- Deadlock Prevention Controller for Automated Manufacturing Systems Modeled by S⁴PR. *Feng, Y., +, TSMC Dec. 2021 7403-7412*
- Dwell-Time-Based Exponential Stabilization of Switched Positive Systems With Actuator Saturation. *Ma, R., +, TSMC Dec. 2021 7685-7691*
- H_∞ Control of Singular System Based on Stochastic Cyber-Attacks and Dynamic Event-Triggered Mechanism. *Zhang, Q., +, TSMC Dec. 2021 7510-7516*
- Systems Science and Engineering Research in the Context of Systems, Man, and Cybernetics: Recollection, Trends, and Future Directions. *Tunstel, E., +, TSMC Jan. 2021 5-21*

D

Damping

- Adaptive Nonlinear Hierarchical Control for a Rotorcraft Transporting a Cable-Suspended Payload. *Liang, X., +, TSMC July 2021 4171-4182*

Data analysis

- A Construction of Robust Representations for Small Data Sets Using Broad Learning System. *Tang, H., +, TSMC Oct. 2021 6074-6084*
- A Heterogeneous Data Analytics Framework for RFID-Enabled Factories. *Zhong, R.Y., +, TSMC Sept. 2021 5567-5576*
- Clustering Through Probability Distribution Analysis Along Eigenpaths. *Yang, W., +, TSMC Feb. 2021 875-884*
- Streaming Data Analysis: Clustering or Classification?. *Bezdek, J.C., +, TSMC Jan. 2021 91-102*

Data collection

YSUY: Your Smartphone Understands You—Using Machine Learning to Address Fundamental Human Needs. *Akmandor, A.O.*, +, *TSMC Dec. 2021* 7553-7568

Data communication

Distributed Fusion Estimation for Multisensor Multirate Systems With Packet Dropout Compensations and Correlated Noises. *Tian, T.*, +, *TSMC Sept. 2021* 5762-5772

Data fusion

Distributed Composite Optimization Over Relay-Assisted Networks. *Shi, C.*, +, *TSMC Oct. 2021* 6587-6598

Data handling

A Fast Semi-Supervised Clustering Framework for Large-Scale Time Series Data. *He, G.*, +, *TSMC July 2021* 4201-4216

A Micro-Extended Belief Rule-Based System for Big Data Multiclass Classification Problems. *Yang, L.*, +, *TSMC Jan. 2021* 420-440

Adaptive Online Learning With Regularized Kernel for One-Class Classification. *Gautam, C.*, +, *TSMC March 2021* 1917-1932

Investigating the Flexibility of the MBSE Approach to the Biomass Mission. *Gregory, J.*, +, *TSMC Nov. 2021* 6946-6961

Data integrity

Detection of Data Integrity Attacks in Distributed State Estimation. *Xia, Y.*, +, *TSMC Dec. 2021* 7735-7744

Data mining

A Chaotic Ant Colony Optimized Link Prediction Algorithm. *Cao, Z.*, +, *TSMC Sept. 2021* 5274-5288

Dynamic Community Evolution Analysis Framework for Large-Scale Complex Networks Based on Strong and Weak Events. *Qiao, S.*, +, *TSMC Oct. 2021* 6229-6243

Enhanced Ensemble Clustering via Fast Propagation of Cluster-Wise Similarities. *Huang, D.*, +, *TSMC Jan. 2021* 508-520

Enhancing Learning Efficiency of Brain Storm Optimization via Orthogonal Learning Design. *Ma, L.*, +, *TSMC Nov. 2021* 6723-6742

Knowledge-Data-Driven Model Predictive Control for a Class of Nonlinear Systems. *Han, H.*, +, *TSMC July 2021* 4492-4504

Multitask TSK Fuzzy System Modeling by Jointly Reducing Rules and Consequent Parameters. *Wang, J.*, +, *TSMC July 2021* 4078-4090

Novel Fast Networking Approaches Mining Underlying Structures From Investment Big Data. *Yang, L.*, +, *TSMC Oct. 2021* 6319-6329

Output Feedback and Stability Analysis of Positive Polynomial Fuzzy Systems. *Meng, A.*, +, *TSMC Dec. 2021* 7707-7718

Streaming Data Analysis: Clustering or Classification?. *Bezdek, J.C.*, +, *TSMC Jan. 2021* 91-102

Data privacy

Event-Triggered Privacy-Preserving Average Consensus for Multiagent Networks With Time Delay: An Output Mask Approach. *Wang, A.*, +, *TSMC July 2021* 4520-4531

Data reduction

Graph Embedding-Based Dimension Reduction With Extreme Learning Machine. *Yang, L.*, +, *TSMC July 2021* 4262-4273

Data structures

Clustering Through Probability Distribution Analysis Along Eigenpaths. *Yang, W.*, +, *TSMC Feb. 2021* 875-884

Novel Fast Networking Approaches Mining Underlying Structures From Investment Big Data. *Yang, L.*, +, *TSMC Oct. 2021* 6319-6329

Databases

Emotion Classification Using EEG Brain Signals and the Broad Learning System. *Issa, S.*, +, *TSMC Dec. 2021* 7382-7391

DC motors

Data-Driven Output-Feedback LQ Secure Control for Unknown Cyber-Physical Systems Against Sparse Actuator Attacks. *Shen, X.*, +, *TSMC Sept. 2021* 5708-5720

DC-DC power converters

Adaptive Type-2 FNN-Based Dynamic Sliding Mode Control of DC–DC Boost Converters. *Wang, J.*, +, *TSMC April 2021* 2246-2257

Robust Invariant Manifold-Based Output Voltage-Tracking Controller for DC/DC Boost Power Conversion Systems. *Kim, S.*, +, *TSMC March 2021* 1582-1589

Decentralized control

Adaptive Event-Triggered and Double-Quantized Consensus of Leader–Follower Multiagent Systems With Semi-Markovian Jump Parameters. *Gong, C.*, +, *TSMC Sept. 2021* 5867-5879

Adaptive Fixed-Time Control of Error-Constrained Pure-Feedback Interconnected Nonlinear Systems. *Zhou, Q.*, +, *TSMC Oct. 2021* 6369-6380

Adaptive Leaderless Consensus Control of Strict-Feedback Nonlinear Multiagent Systems With Unknown Control Directions. *Rezaee, H.*, +, *TSMC Oct. 2021* 6435-6444

Annular Domain Finite-Time Connective Control for Large-Scale Systems With Expanding Construction. *Liu, Y.*, +, *TSMC Oct. 2021* 6159-6169

Cluster Event-Triggered Tracking Cooperative and Formation Control for Multivehicle Systems: An Extended Magnification Region Condition. *Wang, B.*, *TSMC May 2021* 3229-3239

Decentralized Event-Triggered Tracking of a Class of Uncertain Interconnected Nonlinear Systems Using Minimal Function Approximators. *Choi, Y.H.*, +, *TSMC March 2021* 1766-1778

Distributed Control of Networked Nonlinear Systems via Interconnected Takagi–Sugeno Fuzzy Systems With Nonlinear Consequent. *Araujo, R.F.*, +, *TSMC Aug. 2021* 4858-4867

Echo State Network-Based Decentralized Control of Continuous-Time Nonlinear Large-Scale Interconnected Systems. *Zhang, H.*, +, *TSMC Oct. 2021* 6293-6303

Event-Based Formation Coordinated Control for Multiple Spacecraft Under Communication Constraints. *Hu, Q.*, +, *TSMC May 2021* 3168-3179

Event-Triggered Security Output Feedback Control for Networked Interconnected Systems Subject to Cyber-Attacks. *Gu, Z.*, +, *TSMC Oct. 2021* 6197-6206

Neural-Based Decentralized Adaptive Finite-Time Control for Nonlinear Large-Scale Systems With Time-Varying Output Constraints. *Du, P.*, +, *TSMC May 2021* 3136-3147

Output-Feedback-Based Consensus Control Without Continuous Interagent Communication. *Shih, C.*, +, *TSMC May 2021* 3240-3250

Quantized Decentralized Adaptive Neural Network PI Tracking Control for Uncertain Interconnected Nonlinear Systems With Dynamic Uncertainties. *Sun, H.*, +, *TSMC May 2021* 3111-3124

Resilient Load Frequency Control of Cyber-Physical Power Systems Under QoS-Dependent Event-Triggered Communication. *Sun, H.*, +, *TSMC April 2021* 2113-2122

Stability and Stabilization for T–S Fuzzy Large-Scale Interconnected Power System With Wind Farm via Sampled-Data Control. *Shanmugam, L.*, +, *TSMC April 2021* 2134-2144

Decision making

A Generalized Golden Rule Representative Value for Multiple-Criteria Decision Analysis. *Liu, Z.*, +, *TSMC May 2021* 3193-3204

A Heterogeneous Data Analytics Framework for RFID-Enabled Factories. *Zhong, R.Y.*, +, *TSMC Sept. 2021* 5567-5576

A Personalized Consensus Feedback Mechanism Based on Maximum Harmony Degree. *Cao, M.*, +, *TSMC Oct. 2021* 6134-6146

A Personalized Feedback Mechanism Based on Bounded Confidence Learning to Support Consensus Reaching in Group Decision Making. *Zha, Q.*, +, *TSMC June 2021* 3900-3910

A Sequential Three-Way Decision Model With Intuitionistic Fuzzy Numbers. *Zhang, Q.*, +, *TSMC May 2021* 2640-2652

A Three-Level Hierarchical Graph Model for Conflict Resolution. *He, S.*, +, *TSMC March 2021* 1424-1433

Algorithms to Detect and Rectify Multiplicative and Ordinal Inconsistencies of Fuzzy Preference Relations. *Xu, Y.*, +, *TSMC June 2021* 3498-3511

Composite Decision Makers in the Graph Model for Conflict Resolution: Hesitant Fuzzy Preference Modeling. *Wu, N.*, +, *TSMC Dec. 2021* 7889-7902

Connecting Model-Based and Model-Free Control With Emotion Modulation in Learning Systems. *Huang, X.*, +, *TSMC Aug. 2021* 4624-4638

Consensus Reaching and Strategic Manipulation in Group Decision Making With Trust Relationships. *Dong, Y.*, +, *TSMC Oct. 2021* 6304-6318

Decentralized Consensus Decision-Making for Cybersecurity Protection in Multimicrogrid Systems. *Hu, B.*, +, *TSMC April 2021* 2187-2198

- Deep Q-Learning With Q-Matrix Transfer Learning for Novel Fire Evacuation Environment. *Sharma, J.*, +, *TSMC Dec. 2021 7363-7381*
- Dual Models and Return Allocations for Consensus Building Under Weighted Average Operators. *Wu, Z.*, +, *TSMC Nov. 2021 7164-7176*
- Fuzzy Grey Choquet Integral for Evaluation of Multicriteria Decision Making Problems With Interactive and Qualitative Indices. *Tian, G.*, +, *TSMC March 2021 1855-1868*
- Inverse Engineering Preferences in the Graph Model for Conflict Resolution. *Garcia, A.*, +, *TSMC March 2021 1716-1724*
- Managing Consensus With Minimum Adjustments in Group Decision Making With Opinions Evolution. *Chen, X.*, +, *TSMC April 2021 2299-2311*
- Mixed Coalitional Stabilities With Full Participation of Sanctioning Opponents Within the Graph Model for Conflict Resolution. *Zhao, S.*, +, *TSMC June 2021 3911-3925*
- Modeling a Decision-Maker's Choice Behavior Through Perceived Values. *Aggarwal, M.*, *TSMC March 2021 1933-1944*
- MOEA/D-Based Probabilistic PBI Approach for Risk-Based Optimal Operation of Hybrid Energy System With Intermittent Power Uncertainty. *Zhang, H.*, +, *TSMC April 2021 2080-2090*
- Pythagorean Fuzzy Petri Nets for Knowledge Representation and Reasoning in Large Group Context. *Liu, H.*, +, *TSMC Aug. 2021 5261-5271*
- Revisiting Fuzzy and Linguistic Decision Making: Scenarios and Challenges for Making Wiser Decisions in a Better Way. *Herrera-Viedma, E.*, +, *TSMC Jan. 2021 191-208*
- Survey of Human-Robot Collaboration in Industrial Settings: Awareness, Intelligence, and Compliance. *Kumar, S.*, +, *TSMC Jan. 2021 280-297*
- The Graph Model for Conflict Resolution and Decision Support. *Hipel, K.W.*, +, *TSMC Jan. 2021 131-141*
- Visual Human-Computer Interactions for Intelligent Vehicles and Intelligent Transportation Systems: The State of the Art and Future Directions. *Wang, X.*, +, *TSMC Jan. 2021 253-265*

Decision support systems

- Evidential Reasoning Rule-Based Decision Support System for Predicting ICU Admission and In-Hospital Death of Trauma. *Kong, G.*, +, *TSMC Nov. 2021 7131-7142*
- The Graph Model for Conflict Resolution and Decision Support. *Hipel, K.W.*, +, *TSMC Jan. 2021 131-141*

Decision theory

- A Sequential Three-Way Decision Model With Intuitionistic Fuzzy Numbers. *Zhang, Q.*, +, *TSMC May 2021 2640-2652*
- Dual Models and Return Allocations for Consensus Building Under Weighted Average Operators. *Wu, Z.*, +, *TSMC Nov. 2021 7164-7176*

Decoding

- Distributed Quantized Optimization Design of Continuous-Time Multiagent Systems Over Switching Graphs. *Chen, Z.*, +, *TSMC Nov. 2021 7152-7163*

Deep learning

- Deep Q-Learning With Q-Matrix Transfer Learning for Novel Fire Evacuation Environment. *Sharma, J.*, +, *TSMC Dec. 2021 7363-7381*
- Deep Adversarial Domain Adaptation Model for Bearing Fault Diagnosis. *Liu, Z.*, +, *TSMC July 2021 4217-4226*
- E-LSTM-D: A Deep Learning Framework for Dynamic Network Link Prediction. *Chen, J.*, +, *TSMC June 2021 3699-3712*
- Multialgorithm Fusion Image Processing for High Speed Railway Dropper Failure-Defect Detection. *Tan, P.*, +, *TSMC July 2021 4466-4478*
- Promotion of Answer Value Measurement With Domain Effects in Community Question Answering Systems. *Jin, B.*, +, *TSMC May 2021 3068-3079*
- Solving Optimization Problems Through Fully Convolutional Networks: An Application to the Traveling Salesman Problem. *Ling, Z.*, +, *TSMC Dec. 2021 7475-7485*
- Stacked Broad Learning System: From Incremental Flatted Structure to Deep Model. *Liu, Z.*, +, *TSMC Jan. 2021 209-222*
- Underwater Target Tracking Control of an Untethered Robotic Fish With a Camera Stabilizer. *Yu, J.*, +, *TSMC Oct. 2021 6523-6534*

Deformation

- A Wearable Ultrasound System for Sensing Muscular Morphological Deformations. *Yang, X.*, +, *TSMC June 2021 3370-3379*

Delay effects

- Exponential Stability of Delayed Generalized Neural Networks With Intermittent Large-Delay Periods. *Yang, B.*, +, *TSMC Dec. 2021 7392-7402*
- Observer-Based Sliding Mode Control for Stabilization of Mismatched Disturbance Systems With or Without Time Delays. *Zhao, Y.*, +, *TSMC Dec. 2021 7337-7345*
- Pose Synchronization of Multiple Networked Manipulators Using Nonsingular Terminal Sliding Mode Control. *Shen, H.*, +, *TSMC Dec. 2021 7497-7509*
- Stability Analysis of Discrete-Time Polynomial Fuzzy-Model-Based Control Systems With Time Delay and Positivity Constraints Through Piecewise Taylor Series Membership Functions. *Li, X.*, +, *TSMC Dec. 2021 7517-7529*

Delay systems

- A Disturbance Rejection Framework for Finite-Time and Fixed-Time Stabilization of Delayed Memristive Neural Networks. *Wang, L.*, +, *TSMC Feb. 2021 905-915*
- A Generalized System Approach to Intermittent Nonfragile Control of Stochastic Neutral Time-Varying Delay Systems. *Ding, K.*, +, *TSMC Nov. 2021 7017-7026*
- Bandwidth Allocation-Based Switched Dynamic Triggering Control Against DoS Attacks. *Hu, S.*, +, *TSMC Oct. 2021 6050-6061*
- Distributed Secure Platoon Control of Connected Vehicles Subject to DoS Attack: Theory and Application. *Zhang, D.*, +, *TSMC Nov. 2021 7269-7278*
- Event-Triggered H_∞ Filtering for Networked Switched Systems With Packet Disorders. *Qi, Y.*, +, *TSMC May 2021 2847-2859*
- Impulsive Stabilization of Nonlinear Time-Delay System With Input Saturation via Delay-Dependent Polytopic Approach. *Li, H.*, +, *TSMC Nov. 2021 7087-7098*
- Relay Tracking Controller Design for Multiagent Systems With Varying Number of Agents. *Dong, L.*, +, *TSMC Oct. 2021 6147-6158*
- Robust Exact Predictive Scheme for Output-Feedback Control of Input-Delay Systems With Unmatched Sinusoidal Disturbances. *Shi, S.*, +, *TSMC Sept. 2021 5357-5366*
- Robust Exponential Stability Analysis for Stochastic Systems With Actuator Faults Using Improved Weighted Relaxed Integral Inequality. *Gnanesanaran, N.*, +, *TSMC June 2021 3346-3357*

Delay tolerant networks

- Toward Pre-Empted EV Charging Recommendation Through V2V-Based Reservation System. *Cao, Y.*, +, *TSMC May 2021 3026-3039*

Delays

- A Disturbance Rejection Framework for Finite-Time and Fixed-Time Stabilization of Delayed Memristive Neural Networks. *Wang, L.*, +, *TSMC Feb. 2021 905-915*
- A Dynamic Event-Triggered Approach to H_∞ Control for Discrete-Time Singularly Perturbed Systems With Time-Delays and Sensor Saturations. *Ma, L.*, +, *TSMC Nov. 2021 6614-6625*
- A New Approach to Characterize Successive Packet Losses in Stochastic Networked Systems. *Hu, Z.*, +, *TSMC Jan. 2021 552-560*
- A New Filter Design Method for a Class of Fuzzy Systems With Time Delays. *Lian, Z.*, +, *TSMC Oct. 2021 6477-6487*
- A Prediction-Based Approach to Distributed Filtering With Missing Measurements and Communication Delays Through Sensor Networks. *Hu, J.*, +, *TSMC Nov. 2021 7063-7074*
- Adaptive Dynamic Surface Fuzzy Control for State Constrained Time-Delay Nonlinear Nonstrict Feedback Systems With Unknown Control Directions. *Sun, W.*, +, *TSMC Dec. 2021 7423-7434*
- Adaptive Event-Triggered Fault Detection Scheme for Semi-Markovian Jump Systems With Output Quantization. *Zhang, L.*, +, *TSMC April 2021 2370-2381*
- Adaptive NN Cooperative Control of Unknown Nonlinear Multiagent Systems With Communication Delays. *Psillakis, H.E.*, *TSMC Sept. 2021 5311-5321*
- Adaptively Synchronize the Derivative Coupled Complex Networks With Proportional Delay. *Tang, Z.*, +, *TSMC Aug. 2021 4969-4979*

- Admissibilization for Implicit Jump Systems With Mixed Retarded Delays Based on Reciprocally Convex Integral Inequality and Barbalat's Lemma. *Zhuang, G., +, TSMC Nov. 2021 6808-6818*
- An Improved Impulsive Control Approach for Cluster Synchronization of Complex Networks With Parameter Mismatches. *Wang, X., +, TSMC April 2021 2561-2570*
- An Improved Result on Sampled-Data Synchronization of Markov Jump Delayed Neural Networks. *Shen, H., +, TSMC June 2021 3608-3616*
- An Input Delay Approach to Interval Type-2 Fuzzy Exponential Stabilization for Nonlinear Unreliable Networked Sampled-Data Control Systems. *Du, Z., +, TSMC June 2021 3488-3497*
- Asymptotic Stability and Synchronization of Fractional-Order Neural Networks With Unbounded Time-Varying Delays. *Zhang, F., +, TSMC Sept. 2021 5547-5556*
- Bandwidth Allocation-Based Switched Dynamic Triggering Control Against DoS Attacks. *Hu, S., +, TSMC Oct. 2021 6050-6061*
- Consensus of Multiagent Systems With Delayed Node Dynamics and Time-Varying Coupling. *Jia, Q., +, TSMC June 2021 3320-3329*
- Consensus of Multiagent Systems With Time-Varying Input Delay and Relative State Saturation Constraints. *Chu, H., +, TSMC Nov. 2021 6938-6944*
- Consensus of Multiagent Systems With Time-Varying Input Delay via Truncated Predictor Feedback. *Chu, H., +, TSMC Oct. 2021 6062-6073*
- Control of Discrete-Time Stochastic Systems With Packet Loss by Event-Triggered Approach. *Hu, Z., +, TSMC Feb. 2021 755-764*
- Design of Sliding-Mode-Based Control for Nonlinear Systems With Mixed-Delays and Packet Losses Under Uncertain Missing Probability. *Hu, J., +, TSMC May 2021 3217-3228*
- Dissipativity Analysis of Switched Gene Regulatory Networks Actuated by Persistent Dwell-Time Switching Strategy. *Shen, H., +, TSMC Sept. 2021 5535-5546*
- Distributed Secure Platoon Control of Connected Vehicles Subject to DoS Attack: Theory and Application. *Zhang, D., +, TSMC Nov. 2021 7269-7278*
- Event-Driven Fault Detection for Discrete-Time Interval Type-2 Fuzzy Systems. *Pan, Y., +, TSMC Aug. 2021 4959-4968*
- Event-Triggered H_∞ Filtering for Networked Switched Systems With Packet Disorders. *Qi, Y., +, TSMC May 2021 2847-2859*
- Event-Triggered Privacy-Preserving Average Consensus for Multiagent Networks With Time Delay: An Output Mask Approach. *Wang, A., +, TSMC July 2021 4520-4531*
- Extended Dissipativity Performance of High-Speed Train Including Actuator Faults and Probabilistic Time-Delays Under Resilient Reliable Control. *Cao, J., +, TSMC June 2021 3808-3819*
- Finite-Time State Estimation for Delayed Neural Networks With Redundant Delayed Channels. *Zhao, Z., +, TSMC Jan. 2021 441-451*
- Finite-Time Synchronization of Memristor-Based Recurrent Neural Networks With Inertial Items and Mixed Delays. *Lu, Z., +, TSMC May 2021 2701-2711*
- Fractional-Order PID Controller Synthesis for Bifurcation of Fractional-Order Small-World Networks. *Xiao, M., +, TSMC July 2021 4334-4346*
- H_∞ Control of Singular System Based on Stochastic Cyber-Attacks and Dynamic Event-Triggered Mechanism. *Zhang, Q., +, TSMC Dec. 2021 7510-7516*
- Hidden Markov Model Based Fault Detection for Networked Singularly Perturbed Systems. *Wan, X., +, TSMC Oct. 2021 6445-6456*
- Improved Stability Criteria for Discrete-Time Switched T-S Fuzzy Systems. *Fei, Z., +, TSMC Feb. 2021 712-720*
- Impulsive Stabilization of Nonlinear Time-Delay System With Input Saturation via Delay-Dependent Polytopic Approach. *Li, H., +, TSMC Nov. 2021 7087-7098*
- Input-Output Finite-Time Reliable Static Output Control of Time-Varying System With Input Delay. *Chen, M., +, TSMC Feb. 2021 1334-1344*
- Integrated Scheduling of a Dual-Armed Cluster Tool for Maximizing Steady Schedule Patterns. *Kim, W., +, TSMC Dec. 2021 7282-7294*
- Intermittent Control Strategy for Synchronization Analysis of Time-Varying Complex Dynamical Networks. *Wu, Y., +, TSMC May 2021 3251-3262*
- Local Stabilization of Continuous-Time T-S Fuzzy Systems With Partly Measurable Premise Variables and Time-Varying Delay. *Wu, Y., +, TSMC Jan. 2021 326-338*
- Model-Based Periodic Event-Triggered Control Strategy to Stabilize a Scalar Nonlinear System. *Dou, R., +, TSMC Sept. 2021 5322-5335*
- Multiple ψ -Type Stability of Cohen-Grossberg Neural Networks With Unbounded Time-Varying Delays. *Zhang, F., +, TSMC Jan. 2021 521-531*
- Nonfragile Consensus of Multiagent Systems Based on Memory Sampled-Data Control. *Ge, C., +, TSMC Jan. 2021 391-399*
- Nonfragile Sampled-Data Filtering of Uncertain Fuzzy Systems With Time-Varying Delays. *Luo, J., +, TSMC Aug. 2021 4993-5004*
- Observer-Based PID Security Control for Discrete Time-Delay Systems Under Cyber-Attacks. *Zhao, D., +, TSMC June 2021 3926-3938*
- Optimal Control and Stabilization for Networked Systems With Input Delay and Markovian Packet Losses. *Li, H., +, TSMC July 2021 4453-4465*
- Predictive Cloud Control for Networked Multiagent Systems With Quantized Signals Under DoS Attacks. *Yang, H., +, TSMC Feb. 2021 1345-1353*
- Quasi-Consensus Control for a Class of Time-Varying Stochastic Nonlinear Time-Delay Multiagent Systems Subject to Deception Attacks. *Liu, L., +, TSMC Nov. 2021 6863-6873*
- Quasi-Synchronization of Delayed Memristive Neural Networks via a Hybrid Impulsive Control. *Zhou, Y., +, TSMC March 2021 1954-1965*
- Receding Horizon Synchronization of Delayed Neural Networks Using a Novel Inequality on Quadratic Polynomial Functions. *Lu, C., +, TSMC Oct. 2021 6085-6095*
- Reliable Control for Vehicle Active Suspension Systems Under Event-Triggered Scheme With Frequency Range Limitation. *Fei, Z., +, TSMC March 2021 1630-1641*
- Reliable Fuzzy H_∞ Control for Permanent Magnet Synchronous Motor Against Stochastic Actuator Faults. *Vadivel, R., +, TSMC April 2021 2232-2245*
- Rendezvous of Heterogeneous Multiagent Systems With Nonuniform Time-Varying Information Delays: An Adaptive Approach. *Wang, J., +, TSMC Aug. 2021 4848-4857*
- Repetitive Learning Control for Control-Affine Systems With Time Delays. *Li, H., +, TSMC Aug. 2021 5142-5152*
- Resilient H_∞ Filtering for Event-Triggered Networked Systems Under Nonperiodic DoS Jamming Attacks. *Hu, S., +, TSMC March 2021 1392-1403*
- Robust Containment Control of Uncertain Multi-Agent Systems With Time-Delay and Heterogeneous Lipschitz Nonlinearity. *Parsa, M., +, TSMC April 2021 2312-2321*
- Robust Exact Predictive Scheme for Output-Feedback Control of Input-Delay Systems With Unmatched Sinusoidal Disturbances. *Shi, S., +, TSMC Sept. 2021 5357-5366*
- Robust Exponential Stability Analysis for Stochastic Systems With Actuator Faults Using Improved Weighted Relaxed Integral Inequality. *Gnanaswaran, N., +, TSMC June 2021 3346-3357*
- Robust Exponential Synchronization for Memristor Neural Networks With Nonidentical Characteristics by Pinning Control. *Li, Y., +, TSMC March 2021 1966-1980*
- Robust H_∞ Sliding Mode Controller Design of a Class of Time-Delayed Discrete Conic-Type Nonlinear Systems. *He, S., +, TSMC Feb. 2021 885-892*
- Sliding Mode Control for Markov Jump Systems With Delays via Asynchronous Approach. *Fang, M., +, TSMC May 2021 2916-2925*
- Sliding Mode Controller Design for Conic-Type Nonlinear Semi-Markovian Jumping Systems of Time-Delayed Chua's Circuit. *Nie, R., +, TSMC April 2021 2467-2475*
- Stability Analysis of Complex Network Control System With Dynamical Topology and Delays. *Li, M., +, TSMC Nov. 2021 7228-7237*
- Stability Analysis of Systems With Time-Varying Delay via Improved Lyapunov-Krasovskii Functionals. *Long, F., +, TSMC April 2021 2457-2466*
- Stability Criteria for Impulsive Stochastic Functional Differential Systems With Distributed-Delay Dependent Impulsive Effects. *Hu, W., +, TSMC March 2021 2027-2032*
- Stabilization of Stochastic Retarded Systems Based on Sampled-Data Feedback Control. *Yang, X., +, TSMC Sept. 2021 5895-5904*

- Synchronization on Lur'e Cluster Networks With Proportional Delay: Impulsive Effects Method. *Tang, Z., +, TSMC July 2021 4555-4565*
- Threshold-Function-Dependent Quasi-Synchronization of Delayed Memristive Neural Networks via Hybrid Event-Triggered Control. *Yan, Z., +, TSMC Nov. 2021 6712-6722*
- Demand side management**
- A Two-Stage Approach for Efficient Power Sharing Within Energy Districts. *Giordano, A., +, TSMC March 2021 1679-1689*
- Denial-of-service attack**
- Optimal SINR-Based DoS Attack Scheduling for Remote State Estimation via Adaptive Dynamic Programming Approach. *Liu, R., +, TSMC Dec. 2021 7622-7632*
- Design engineering**
- Design Optimization Using Game Theory. *Smirnov, D., +, TSMC Feb. 2021 1302-1312*
- Design methodology**
- Fault Detection for Lipschitz Nonlinear Systems With Restricted Frequency-Domain Specifications. *Li, J., +, TSMC Dec. 2021 7486-7496*
- Detectors**
- Detection of Data Integrity Attacks in Distributed State Estimation. *Xia, Y., +, TSMC Dec. 2021 7735-7744*
- Difference equations**
- Distributed Fusion Estimation for Multisensor Multirate Systems With Packet Dropout Compensations and Correlated Noises. *Tian, T., +, TSMC Sept. 2021 5762-5772*
- Optimal Control and Stabilization for Networked Systems With Input Delay and Markovian Packet Losses. *Li, H., +, TSMC July 2021 4453-4465*
- Differential equations**
- An Improved Impulsive Control Approach for Cluster Synchronization of Complex Networks With Parameter Mismatches. *Wang, X., +, TSMC April 2021 2561-2570*
- Consensus of Multiagent Systems With Delayed Node Dynamics and Time-Varying Coupling. *Jia, Q., +, TSMC June 2021 3320-3329*
- Finite-Time Synchronization of Memristive Neural Networks With Fractional-Order. *Yang, S., +, TSMC June 2021 3739-3750*
- Optimal Control on Finite-Time Consensus of the Leader-Following Stochastic Multiagent System With Heuristic Method. *Xu, S., +, TSMC June 2021 3617-3628*
- Stability Criteria for Impulsive Stochastic Functional Differential Systems With Distributed-Delay Dependent Impulsive Effects. *Hu, W., +, TSMC March 2021 2027-2032*
- Stabilization of Stochastic Retarded Systems Based on Sampled-Data Feedback Control. *Yang, X., +, TSMC Sept. 2021 5895-5904*
- Differential games**
- Policy-Iteration-Based Learning for Nonlinear Player Game Systems With Constrained Inputs. *Mu, C., +, TSMC Oct. 2021 6488-6502*
- Differentiation**
- Finite-Time Synchronization of Fractional-Order Complex-Variable Dynamic Networks. *Hou, T., +, TSMC July 2021 4297-4307*
- Digital signatures**
- DeSIRE: Deep Signer-Invariant Representations for Sign Language Recognition. *Ferreira, P.M., +, TSMC Sept. 2021 5830-5845*
- Directed graphs**
- Connection of Signed and Unsigned Networks Based on Solving Linear Dynamic Systems. *Meng, D., +, TSMC Aug. 2021 5174-5188*
- Consensus of High-Order Discrete-Time Multiagent Systems With Switching Topology. *Zhang, Y., +, TSMC Feb. 2021 721-730*
- Consensus of One-Sided Lipschitz Multiagents Under Switching Topologies. *Razaq, M.A., +, TSMC March 2021 1485-1495*
- Cooperative Consensus for Heterogeneous Nonlinear Multiagent Systems Under a Leader Having Bounded Unknown Inputs. *Wang, B., TSMC Nov. 2021 7075-7086*
- Cooperative Control of Multiple High-Order Agents With Nonidentical Unknown Control Directions Under Fixed and Time-Varying Topologies. *Wang, Q., +, TSMC April 2021 2582-2591*
- Cooperative Moving-Target Enclosing Control for Multiple Nonholonomic Vehicles Using Feedback Linearization Approach. *Peng, X., +, TSMC Aug. 2021 4929-4935*
- Distributed Algorithm Design for Resource Allocation Problems of Second-Order Multiagent Systems Over Weight-Balanced Digraphs. *Deng, Z., TSMC June 2021 3512-3521*
- Distributed Algorithms for Average Consensus of Input Data With Fast Convergence. *Xie, K., +, TSMC May 2021 2653-2664*
- Distributed Bipartite Consensus of Linear Multiagent Systems Based on Event-Triggered Output Feedback Control Scheme. *Cai, Y., +, TSMC Nov. 2021 6743-6756*
- Distributed Dynamic Averaging Tracking Without Rate Measurements. *Chen, Y., +, TSMC July 2021 4359-4364*
- Distributed Formation Control of Nonholonomic Wheeled Mobile Robots Subject to Longitudinal Slippage Constraints. *Wang, Z., +, TSMC May 2021 2992-3003*
- Distributed Kalman Filter for Multitarget Tracking Systems With Coupled Measurements. *Li, W., +, TSMC Oct. 2021 6599-6604*
- Distributed Resource Allocation Over Directed Graphs via Continuous-Time Algorithms. *Zhu, Y., +, TSMC Feb. 2021 1097-1106*
- Distributed Robust Adaptive Optimization for Nonlinear Multiagent Systems. *Liu, Y., +, TSMC Feb. 2021 1046-1053*
- Event-Triggered Control for a Class of Nonlinear Multiagent Systems With Directed Graph. *Li, Z., +, TSMC Nov. 2021 6986-6993*
- Event-Triggered Iterative Learning Containment Control of Model-Free Multiagent Systems. *Hua, C., +, TSMC Dec. 2021 7719-7726*
- Fully Distributed Finite-Time Consensus of Directed Multiquadcopter Systems via Pinning Control. *Zhou, Y., +, TSMC Aug. 2021 5080-5089*
- Intelligent Leader-Following Consensus Formation Control Using Recurrent Neural Networks for Small-Size Unmanned Helicopters. *Kuo, C., +, TSMC Feb. 2021 1288-1301*
- Multileader Multiagent Systems Containment Control With Event-Triggering. *Xu, Y., +, TSMC March 2021 1642-1651*
- Necessary and Sufficient Conditions for Consensus in Fractional-Order Multiagent Systems via Sampled Data Over Directed Graph. *Su, H., +, TSMC April 2021 2501-2511*
- Optimal Consensus via Distributed Protocol for Second-Order Multiagent Systems. *Sun, H., +, TSMC Oct. 2021 6218-6228*
- Random Sleep Scheme-Based Distributed Optimization Algorithm Over Unbalanced Time-Varying Networks. *Li, H., +, TSMC Aug. 2021 5244-5253*
- The Role of Reverse Edges on Consensus Performance of Chain Networks. *Hao, Y., +, TSMC March 2021 1757-1765*
- Time-Varying Formation for General Linear Multiagent Systems Over Directed Topologies: A Fully Distributed Adaptive Technique. *Zhao, Y., +, TSMC Jan. 2021 532-541*
- Disasters**
- A Two-Phase Coordinated Planning Approach for Heterogeneous Earth-Observation Resources to Monitor Area Targets. *Deng, M., +, TSMC Oct. 2021 6388-6403*
- Range-Based Reactive Deployment of Autonomous Drones for Optimal Coverage in Disaster Areas. *Savkin, A.V., +, TSMC July 2021 4606-4610*
- Robustness Evaluation of Multipartite Complex Networks Based on Percolation Theory. *Cai, Q., +, TSMC Oct. 2021 6244-6257*
- Discrete event systems**
- Output-Feedback-Based Consensus Control Without Continuous Interagent Communication. *Shih, C., +, TSMC May 2021 3240-3250*
- Discrete systems**
- High-Order Internal Model-Based Iterative Learning Control for 2-D Linear FMMI Systems With Iteration-Varying Trajectory Tracking. *Wan, K., +, TSMC March 2021 1462-1472*
- Hybrid Disturbance Observer-Based Anti-Disturbance Composite Control With Applications to Mars Landing Mission. *Xu, J., +, TSMC May 2021 2885-2893*
- Robust Iterative Learning Control of 2-D Linear Discrete FMMII Systems Subject to Iteration-Dependent Uncertainties. *Wan, K., +, TSMC Oct. 2021 5949-5961*
- Discrete time systems**
- H_∞ Filtering for Nonhomogeneous Markovian Jump Repeated Scalar Nonlinear Systems With Multiplicative Noises and Partially Mode-Dependent Characterization. *Hua, M., +, TSMC May 2021 3180-3192*

- A Dynamic Event-Triggered Approach to H_∞ Control for Discrete-Time Singularly Perturbed Systems With Time-Delays and Sensor Saturations. *Ma, L.*, +, *TSMC Nov. 2021 6614-6625*
- A New Approach to Characterize Successive Packet Losses in Stochastic Networked Systems. *Hu, Z.*, +, *TSMC Jan. 2021 552-560*
- Adaptive Dynamic Programming for Control: A Survey and Recent Advances. *Liu, D.*, +, *TSMC Jan. 2021 142-160*
- Adaptive Neural Discrete-Time Fractional-Order Control for a UAV System With Prescribed Performance Using Disturbance Observer. *Shao, S.*, +, *TSMC Feb. 2021 742-754*
- Admissibilization for Implicit Jump Systems With Mixed Retarded Delays Based on Reciprocally Convex Integral Inequality and Barbalat's Lemma. *Zhuang, G.*, +, *TSMC Nov. 2021 6808-6818*
- Admissible Consensus for Homogenous Descriptor Multiagent Systems. *Liu, X.*, +, *TSMC Feb. 2021 965-974*
- An Input Delay Approach to Interval Type-2 Fuzzy Exponential Stabilization for Nonlinear Unreliable Networked Sampled-Data Control Systems. *Du, Z.*, +, *TSMC June 2021 3488-3497*
- Auxiliary Predictive Compensation-Based ILC for Variable Pass Lengths. *Lin, N.*, +, *TSMC July 2021 4048-4056*
- Characteristic Modeling Approach for High-Order Linear Dynamical Systems. *Chen, L.*, +, *TSMC Sept. 2021 5405-5413*
- Connection of Signed and Unsigned Networks Based on Solving Linear Dynamic Systems. *Meng, D.*, +, *TSMC Aug. 2021 5174-5188*
- Consensus of High-Order Discrete-Time Multiagent Systems With Switching Topology. *Zhang, Y.*, +, *TSMC Feb. 2021 721-730*
- Control of Discrete-Time Stochastic Systems With Packet Loss by Event-Triggered Approach. *Hu, Z.*, +, *TSMC Feb. 2021 755-764*
- Decentralized Event-Triggered Tracking of a Class of Uncertain Interconnected Nonlinear Systems Using Minimal Function Approximators. *Choi, Y.H.*, +, *TSMC March 2021 1766-1778*
- Design of Sliding-Mode-Based Control for Nonlinear Systems With Mixed-Delays and Packet Losses Under Uncertain Missing Probability. *Hu, J.*, +, *TSMC May 2021 3217-3228*
- Discrete-Time Sliding-Mode Controllers for MPTCP Networks. *Ignaciuk, P.*, +, *TSMC Oct. 2021 6029-6039*
- Dissipativity Analysis of Switched Gene Regulatory Networks Actuated by Persistent Dwell-Time Switching Strategy. *Shen, H.*, +, *TSMC Sept. 2021 5535-5546*
- Dissipativity-Based Two-Dimensional Control and Filtering for a Class of Switched Systems. *Yang, R.*, +, *TSMC May 2021 2737-2750*
- Distributed Containment Control of MIMO Pure-Feedback Multiagent Systems Using Filter-Driven-Approximation Approach. *Choi, Y.H.*, +, *TSMC Sept. 2021 5490-5502*
- Distributed Control of Networked Nonlinear Systems via Interconnected Takagi-Sugeno Fuzzy Systems With Nonlinear Consequent. *Araujo, R.F.*, +, *TSMC Aug. 2021 4858-4867*
- Distributed Model-Based Event-Triggered Leader-Follower Consensus Control for Linear Continuous-Time Multiagent Systems. *Zhang, L.*, +, *TSMC Oct. 2021 6457-6465*
- Distributed Optimal Observer Design of Networked Systems via Adaptive Critic Design. *Fu, H.*, +, *TSMC Nov. 2021 6976-6985*
- Distributed Quantized Optimization Design of Continuous-Time Multiagent Systems Over Switching Graphs. *Chen, Z.*, +, *TSMC Nov. 2021 7152-7163*
- Effect of Asynchronous Communications on Stationary Solutions for Discrete-Time Multiagent Systems. *Lee, K.*, *TSMC June 2021 3450-3463*
- Estimate-Based Dynamic Event-Triggered Output Feedback Control of Networked Nonlinear Uncertain Systems. *Sun, J.*, +, *TSMC May 2021 3148-3158*
- Event-Based Distributed Adaptive Kalman Filtering With Unknown Covariance of Process Noises. *Mao, J.*, +, *TSMC Oct. 2021 6170-6182*
- Event-Triggered Sliding Mode Control of Switched Neural Networks With Mode-Dependent Average Dwell Time. *Yan, H.*, +, *TSMC Feb. 2021 1233-1243*
- Experimental Output Regulation of Linear Motor Driven Inverted Pendulum With Friction Compensation. *Ping, Z.*, +, *TSMC June 2021 3751-3758*
- Extended State Observer-Based Data-Driven Iterative Learning Control for Permanent Magnet Linear Motor With Initial Shifts and Disturbances. *Hui, Y.*, +, *TSMC March 2021 1881-1891*
- Finite-Time State Estimation for Delayed Neural Networks With Redundant Delayed Channels. *Zhao, Z.*, +, *TSMC Jan. 2021 441-451*
- Finite-Time Synchronization for Switched Neural Networks via Quantized Feedback Control. *Guan, C.*, +, *TSMC May 2021 2873-2884*
- Full Information Estimation for Time-Varying Systems Subject to Round-Robin Scheduling: A Recursive Filter Approach. *Zou, L.*, +, *TSMC March 2021 1904-1916*
- H_∞ Filtering of Repeated Scalar Nonlinear Systems: Event-Triggered Communication Case. *Li, J.*, +, *TSMC June 2021 3392-3400*
- HMM-Based Asynchronous Controller Design of Markovian Jumping Lur'e Systems Within a Finite-Time Interval. *Nie, R.*, +, *TSMC Nov. 2021 6885-6891*
- Improved Stability Criteria for Discrete-Time Switched T-S Fuzzy Systems. *Fei, Z.*, +, *TSMC Feb. 2021 712-720*
- Input-Output Finite-Time Estimation for Complex Networks With Switching Topology Under Dynamic Event-Triggered Transmission. *Sang, H.*, +, *TSMC Oct. 2021 6513-6522*
- Input-Output Finite-Time Sliding-Mode Control for T-S Fuzzy Systems With Application. *Qi, W.*, +, *TSMC Sept. 2021 5446-5455*
- Model-Based Periodic Event-Triggered Control Strategy to Stabilize a Scalar Nonlinear System. *Dou, R.*, +, *TSMC Sept. 2021 5322-5335*
- Moving Horizon Estimation of Networked Nonlinear Systems With Random Access Protocol. *Zou, L.*, +, *TSMC May 2021 2937-2948*
- Multiobjective Dynamic Optimization of Cooperative Difference Games in Infinite Horizon. *Peng, C.*, +, *TSMC Nov. 2021 6669-6680*
- Nonfragile Observer-Based Control for Markovian Jump Systems Subject to Asynchronous Modes. *Tao, J.*, +, *TSMC June 2021 3533-3540*
- On Finite-Duration Convergent Attracting Laws. *Sun, M.*, +, *TSMC Aug. 2021 5017-5029*
- Optimal Control and Stabilization for Networked Systems With Input Delay and Markovian Packet Losses. *Li, H.*, +, *TSMC July 2021 4453-4465*
- Parity Space Vector Machine Approach to Robust Fault Detection for Linear Discrete-Time Systems. *Zhong, M.*, +, *TSMC July 2021 4251-4261*
- Partial-Nodes-Based Scalable H_∞ -Consensus Filtering With Censored Measurements Over Sensor Networks. *Han, F.*, +, *TSMC March 2021 1892-1903*
- Quantized Static Output Feedback Fuzzy Tracking Control for Discrete-Time Nonlinear Networked Systems With Asynchronous Event-Triggered Constraints. *Li, Z.*, +, *TSMC June 2021 3820-3831*
- Quasi-Consensus Control for a Class of Time-Varying Stochastic Nonlinear Time-Delay Multiagent Systems Subject to Deception Attacks. *Liu, L.*, +, *TSMC Nov. 2021 6863-6873*
- Robust H_∞ Sliding Mode Controller Design of a Class of Time-Delayed Discrete Conic-Type Nonlinear Systems. *He, S.*, +, *TSMC Feb. 2021 885-892*
- Sampled-Based Consensus for Nonlinear Multiagent Systems With Deception Attacks: The Decoupled Method. *Cui, Y.*, +, *TSMC Jan. 2021 561-573*
- Second-Order Consensus of Hybrid Multiagent Systems. *Su, H.*, +, *TSMC Oct. 2021 6503-6512*
- Semiglobal Observer-Based Positive Scaled Edge-Consensus of Networked Discrete-Time Systems Under Actuator Saturation. *Sun, Y.*, +, *TSMC July 2021 4543-4554*
- Soft-Bound Interval Control System and Its Robust Fault-Tolerant Controller Design. *Zhou, J.*, +, *TSMC Jan. 2021 378-390*
- Stability Analysis for Input Saturated Discrete-Time Switched Systems With Average Dwell-Time. *Wang, Q.*, +, *TSMC Jan. 2021 412-419*
- Stability and ℓ_1 -Gain Analysis for Switched Positive Systems With MDADT Based on Quasi-Time-Dependent Approach. *Li, X.*, +, *TSMC Sept. 2021 5846-5854*
- Stabilization of Stochastic Retarded Systems Based on Sampled-Data Feedback Control. *Yang, X.*, +, *TSMC Sept. 2021 5895-5904*
- Stepsize Interval Confirmation of General Four-Step DTZN Algorithm Illustrated With Future Quadratic Programming and Tracking Control of Manipulators. *Guo, J.*, +, *TSMC March 2021 1662-1670*

Discrete-time systems

State Estimation for Networked Systems With Markov Driven Transmission and Buffer Constraint. *Xu, Y., +, TSMC Dec. 2021 7727-7734*

Diseases

A Binary Particle Swarm Optimizer With Priority Planning and Hierarchical Learning for Networked Epidemic Control. *Zhao, T., +, TSMC Aug. 2021 5090-5104*

Infection-Probability-Dependent Interlayer Interaction Propagation Processes in Multiplex Networks. *Liu, J., +, TSMC Feb. 2021 1085-1096*

Suboptimal Control and Targeted Constant Control for Semi-Random Epidemic Networks. *Li, K., +, TSMC April 2021 2602-2610*

Distance measurement

Visual Regulation of Differential-Drive Mobile Robots: A Nonadaptive Switching Approach. *Lu, Q., +, TSMC Nov. 2021 6874-6884*

Distortion measurement

Transformation-Aware Similarity Measurement for Image Retargeting Quality Assessment via Bidirectional Rewarping. *Shao, F., +, TSMC May 2021 3053-3067*

Distributed algorithms

A Nesterov-Like Gradient Tracking Algorithm for Distributed Optimization Over Directed Networks. *Lu, Q., +, TSMC Oct. 2021 6258-6270*

An Accelerated Distributed Gradient-Based Algorithm for Constrained Optimization With Application to Economic Dispatch in a Large-Scale Power System. *Guo, F., +, TSMC April 2021 2041-2053*

Distributed Algorithm Design for Resource Allocation Problems of Second-Order Multiagent Systems Over Weight-Balanced Digraphs. *Deng, Z., TSMC June 2021 3512-3521*

Distributed Algorithms for Average Consensus of Input Data With Fast Convergence. *Xie, K., +, TSMC May 2021 2653-2664*

Distributed Composite Optimization Over Relay-Assisted Networks. *Shi, C., +, TSMC Oct. 2021 6587-6598*

Distributed Resource Allocation Over Directed Graphs via Continuous-Time Algorithms. *Zhu, Y., +, TSMC Feb. 2021 1097-1106*

Global Optimization: A Distributed Compensation Algorithm and its Convergence Analysis. *Lin, W., +, TSMC April 2021 2355-2369*

Random Sleep Scheme-Based Distributed Optimization Algorithm Over Unbalanced Time-Varying Networks. *Li, H., +, TSMC Aug. 2021 5244-5253*

Distributed control

A Dynamic Event-Triggered Control Approach to Leader-Following Consensus for Linear Multiagent Systems. *Liu, D., +, TSMC Oct. 2021 6271-6279*

A Finite-Time Distributed Optimization Algorithm for Economic Dispatch in Smart Grids. *Mao, S., +, TSMC April 2021 2068-2079*

A New Fixed-Time Consensus Tracking Approach for Second-Order Multiagent Systems Under Directed Communication Topology. *Ni, J., +, TSMC April 2021 2488-2500*

A New Switched System Approach to Leader-Follower Consensus of Heterogeneous Linear Multiagent Systems With DoS Attack. *Zhang, D., +, TSMC Feb. 2021 1258-1266*

Adaptive Event-Triggered and Double-Quantized Consensus of Leader-Follower Multiagent Systems With Semi-Markovian Jump Parameters. *Gong, C., +, TSMC Sept. 2021 5867-5879*

Adaptive Leaderless Consensus Control of Strict-Feedback Nonlinear Multiagent Systems With Unknown Control Directions. *Rezaee, H., +, TSMC Oct. 2021 6435-6444*

Adaptive NN Cooperative Control of Unknown Nonlinear Multiagent Systems With Communication Delays. *Psillakis, H.E., TSMC Sept. 2021 5311-5321*

Admissibilization for Implicit Jump Systems With Mixed Retarded Delays Based on Reciprocally Convex Integral Inequality and Barbalat's Lemma. *Zhuang, G., +, TSMC Nov. 2021 6808-6818*

Admissible Consensus for Homogeneous Descriptor Multiagent Systems. *Liu, X., +, TSMC Feb. 2021 965-974*

Cluster Event-Triggered Tracking Cooperative and Formation Control for Multivehicle Systems: An Extended Magnification Region Condition. *Wang, B., TSMC May 2021 3229-3239*

Command Filtered Backstepping-Based Attitude Containment Control for Spacecraft Formation. *Zhao, L., +, TSMC Feb. 2021 1278-1287*

Consensus of High-Order Discrete-Time Multiagent Systems With Switching Topology. *Zhang, Y., +, TSMC Feb. 2021 721-730*

Consensus of Multiagent Systems With Relative State Saturations. *Chu, H., +, TSMC April 2021 2391-2402*

Cooperative Consensus for Heterogeneous Nonlinear Multiagent Systems Under a Leader Having Bounded Unknown Inputs. *Wang, B., TSMC Nov. 2021 7075-7086*

Cooperative Control of Multiple High-Order Agents With Nonidentical Unknown Control Directions Under Fixed and Time-Varying Topologies. *Wang, Q., +, TSMC April 2021 2582-2591*

Cooperative Event-Based Rigid Formation Control. *Sun, Z., +, TSMC July 2021 4308-4320*

Cooperative Moving-Target Enclosing Control for Multiple Nonholonomic Vehicles Using Feedback Linearization Approach. *Peng, X., +, TSMC Aug. 2021 4929-4935*

Cooperative Target Enclosing Control of Multiple Mobile Robots Subject to Input Disturbances. *Yu, X., +, TSMC June 2021 3440-3449*

Couple-Group Consensus for Cooperative-Competitive Heterogeneous Multiagent Systems: Hybrid Adaptive and Pinning Methods. *Ji, L., +, TSMC Sept. 2021 5367-5376*

Distributed Adaptive Tracking Control for Lur'e Systems With Event-Triggered Strategy. *Wu, Z., +, TSMC May 2021 3263-3269*

Distributed Bipartite Consensus of Linear Multiagent Systems Based on Event-Triggered Output Feedback Control Scheme. *Cai, Y., +, TSMC Nov. 2021 6743-6756*

Distributed Consensus Tracking of Networked Agent Systems Under Denial-of-Service Attacks. *Wan, Y., +, TSMC Oct. 2021 6183-6196*

Distributed Containment Control of MIMO Pure-Feedback Multiagent Systems Using Filter-Driven-Approximation Approach. *Choi, Y.H., +, TSMC Sept. 2021 5490-5502*

Distributed Containment Maneuvering of Uncertain Multiagent Systems in MIMO Strict-Feedback Form. *Zhang, Y., +, TSMC Feb. 2021 1354-1364*

Distributed Control of Networked Nonlinear Systems via Interconnected Takagi-Sugeno Fuzzy Systems With Nonlinear Consequent. *Araujo, R.F., +, TSMC Aug. 2021 4858-4867*

Distributed Dynamic Averaging Tracking Without Rate Measurements. *Chen, Y., +, TSMC July 2021 4359-4364*

Distributed Formation Control of Nonholonomic Wheeled Mobile Robots Subject to Longitudinal Slippage Constraints. *Wang, Z., +, TSMC May 2021 2992-3003*

Distributed Lyapunov-Based Model Predictive Formation Tracking Control for Autonomous Underwater Vehicles Subject to Disturbances. *Wei, H., +, TSMC Aug. 2021 5198-5208*

Distributed Model-Based Event-Triggered Leader-Follower Consensus Control for Linear Continuous-Time Multiagent Systems. *Zhang, L., +, TSMC Oct. 2021 6457-6465*

Distributed Optimal Consensus Control for a Class of Uncertain Nonlinear Multiagent Networks With Disturbance Rejection Using Adaptive Technique. *Wang, D., +, TSMC July 2021 4389-4399*

Distributed Optimal Consensus for Euler-Lagrange Systems Based on Event-Triggered Control. *Wang, Q., +, TSMC July 2021 4588-4598*

Distributed Optimal Control of Energy Hubs for Micro-Integrated Energy Systems. *Qu, M., +, TSMC April 2021 2145-2158*

Distributed Output-Feedback Tracking of Multiple Nonlinear Systems With Unmeasurable States. *Li, W., +, TSMC Jan. 2021 477-486*

Distributed Robust Adaptive Optimization for Nonlinear Multiagent Systems. *Liu, Y., +, TSMC Feb. 2021 1046-1053*

Effect of Asynchronous Communications on Stationary Solutions for Discrete-Time Multiagent Systems. *Lee, K., TSMC June 2021 3450-3463*

Event-Based Formation Coordinated Control for Multiple Spacecraft Under Communication Constraints. *Hu, Q., +, TSMC May 2021 3168-3179*

Event-Triggered Consensus of General Linear Multiagent Systems With Data Sampling and Random Packet Losses. *Wang, F., +, TSMC Feb. 2021 1313-1321*

Event-Triggered Control for a Class of Nonlinear Multiagent Systems With Directed Graph. *Li, Z., +, TSMC Nov. 2021 6986-6993*

Event-Triggered Distributed H_∞ Constrained Control of Physically Interconnected Large-Scale Partially Unknown Strict-Feedback Systems. *Tan, L.N., TSMC April 2021 2444-2456*

Event-Triggered Model Predictive Control for Multiagent Systems With Communication Constraints. *Li, L., +, TSMC May 2021 3304-3316*

Fixed-Time Consensus Tracking for Second-Order Multiagent Systems Under Disturbance. *Liu, Y., +, TSMC Aug. 2021 4883-4894*

Fully Distributed Finite-Time Consensus of Directed Multiquadcopter Systems via Pinning Control. *Zhou, Y., +, TSMC Aug. 2021 5080-5089*

Fully Distributed Self-Triggered Control for Second-Order Consensus of Multiagent Systems. *Xu, W., +, TSMC June 2021 3541-3551*

LPV Scheme for Robust Adaptive Output Feedback Consensus of Lipschitz Multiagents Using Lipschitz Nonlinear Protocol. *Rehman, A.U., +, TSMC Nov. 2021 7040-7050*

Necessary and Sufficient Conditions for Consensus in Fractional-Order Multiagent Systems via Sampled Data Over Directed Graph. *Su, H., +, TSMC April 2021 2501-2511*

Novel Resilient Structure of Output Formation Tracking of Heterogeneous Systems With Unknown Leader Under Contested Environments. *Li, Q., +, TSMC Nov. 2021 6819-6829*

Optimal Consensus via Distributed Protocol for Second-Order Multiagent Systems. *Sun, H., +, TSMC Oct. 2021 6218-6228*

Optimal Load Frequency Control for Networked Power Systems Based on Distributed Economic MPC. *Jia, Y., +, TSMC April 2021 2123-2133*

Predefined-Time Consensus Tracking of Second-Order Multiagent Systems. *Ni, J., +, TSMC April 2021 2550-2560*

Predictive Cloud Control for Networked Multiagent Systems With Quantized Signals Under DoS Attacks. *Yang, H., +, TSMC Feb. 2021 1345-1353*

Quantized Static Output Feedback Fuzzy Tracking Control for Discrete-Time Nonlinear Networked Systems With Asynchronous Event-Triggered Constraints. *Li, Z., +, TSMC June 2021 3820-3831*

Reset Control for Consensus of Multiagent Systems With Asynchronous Sampling. *Zhao, G., +, TSMC Aug. 2021 4911-4919*

Resilient Load Frequency Control of Cyber-Physical Power Systems Under QoS-Dependent Event-Triggered Communication. *Sun, H., +, TSMC April 2021 2113-2122*

Robust Distributed Formation Controller Design for a Group of Unmanned Underwater Vehicles. *Liu, H., +, TSMC Feb. 2021 1215-1223*

Robust Fixed-Time Consensus Tracking Control of High-Order Multiple Nonholonomic Systems. *Shi, S., +, TSMC March 2021 1869-1880*

Sampled-Based Consensus for Nonlinear Multiagent Systems With Deception Attacks: The Decoupled Method. *Cui, Y., +, TSMC Jan. 2021 561-573*

Second-Order Consensus of Hybrid Multiagent Systems. *Su, H., +, TSMC Oct. 2021 6503-6512*

Soft-Bound Interval Control System and Its Robust Fault-Tolerant Controller Design. *Zhou, J., +, TSMC Jan. 2021 378-390*

Synchronization of Resilient Complex Networks Under Attacks. *Wang, P., +, TSMC Feb. 2021 1116-1127*

Time-Varying Formation for General Linear Multiagent Systems Over Directed Topologies: A Fully Distributed Adaptive Technique. *Zhao, Y., +, TSMC Jan. 2021 532-541*

Distributed parameter systems

Abnormal Source Identification for Parabolic Distributed Parameter Systems. *Feng, Y., +, TSMC Sept. 2021 5698-5707*

Dissimilarity Analysis-Based Multimode Modeling for Complex Distributed Parameter Systems. *Wang, Z., +, TSMC May 2021 2789-2797*

Output Consensus of Multiagent Systems Based on PDEs With Input Constraint: A Boundary Control Approach. *Yang, C., +, TSMC Jan. 2021 370-377*

Predictive Cloud Control for Networked Multiagent Systems With Quantized Signals Under DoS Attacks. *Yang, H., +, TSMC Feb. 2021 1345-1353*

Distributed power generation

A Two-Stage Approach for Efficient Power Sharing Within Energy Districts. *Giordano, A., +, TSMC March 2021 1679-1689*

Decentralized Consensus Decision-Making for Cybersecurity Protection in Multimicrogrid Systems. *Hu, B., +, TSMC April 2021 2187-2198*

Intelligent Controller for Energy Storage System in Grid-Connected Microgrid. *Teo, T.T., +, TSMC Jan. 2021 650-658*

Power Compensation of Network Losses in a Microgrid With BESS by Distributed Consensus Algorithm. *Sun, Y., +, TSMC April 2021 2091-2100*

Stability-Oriented Droop Coefficients Region Identification for Inverters Within Weak Grid: An Impedance-Based Approach. *Wang, R., +, TSMC April 2021 2258-2268*

Disturbance observers

H_∞ Output Anti-Disturbance Control of Stochastic Markov Jump Systems With Multiple Disturbances. *Shen, M., +, TSMC Dec. 2021 7633-7643*

Driver information systems

Modular Lightweight Network for Road Object Detection Using a Feature Fusion Approach. *Liu, Y., +, TSMC Aug. 2021 4716-4728*

Robust Vehicle Driver Assistance Control for Handover Scenarios Considering Driving Performances. *Chen, Y., +, TSMC July 2021 4160-4170*

Drones

Two-Echelon Routing Problem for Parcel Delivery by Cooperated Truck and Drone. *Liu, Y., +, TSMC Dec. 2021 7450-7465*

Duality (mathematics)

Canonical Duality Theory and Algorithm for Solving Bilevel Knapsack Problems With Applications. *Gao, D.Y., TSMC Feb. 2021 893-904*

Dual Models and Return Allocations for Consensus Building Under Weighted Average Operators. *Wu, Z., +, TSMC Nov. 2021 7164-7176*

Dynamic programming

Adaptive Dynamic Programming for Control: A Survey and Recent Advances. *Liu, D., +, TSMC Jan. 2021 142-160*

Data-Driven Output-Feedback LQ Secure Control for Unknown Cyber-Physical Systems Against Sparse Actuator Attacks. *Shen, X., +, TSMC Sept. 2021 5708-5720*

Distributed Optimal Observer Design of Networked Systems via Adaptive Critic Design. *Fu, H., +, TSMC Nov. 2021 6976-6985*

Echo State Network-Based Decentralized Control of Continuous-Time Nonlinear Large-Scale Interconnected Systems. *Zhang, H., +, TSMC Oct. 2021 6293-6303*

Enhanced Branch-and-Bound Framework for a Class of Sequencing Problems. *Zhang, Z., +, TSMC May 2021 2726-2736*

Hamiltonian-Driven Hybrid Adaptive Dynamic Programming. *Yang, Y., +, TSMC Oct. 2021 6423-6434*

Nearly Optimal Integral Sliding-Mode Consensus Control for Multiagent Systems With Disturbances. *Zhang, H., +, TSMC Aug. 2021 4741-4750*

Dynamic scheduling

Optimal SINR-Based DoS Attack Scheduling for Remote State Estimation via Adaptive Dynamic Programming Approach. *Liu, R., +, TSMC Dec. 2021 7622-7632*

Dynamics

A Switching Method to Event-Triggered Output Feedback Control for Unmanned Aerial Vehicles Over Cognitive Radio Networks. *Wu, Z., +, TSMC Dec. 2021 7530-7541*

E

Eigenvalues and eigenfunctions

Distributed Consensus Control of Linear Multiagent Systems With Adaptive Nonlinear Couplings. *Wei, B., +, TSMC Feb. 2021 1365-1370*

Fractional-Order PID Controller Synthesis for Bifurcation of Fractional-Order Small-World Networks. *Xiao, M., +, TSMC July 2021 4334-4346*

Global Consensus of Positive Edge System With Sector Input Nonlinearities. *Wu, H., +, TSMC July 2021 4057-4066*

Multileader Multiagent Systems Containment Control With Event-Triggering. *Xu, Y., +, TSMC March 2021 1642-1651*

Optimizing Pinning Control of Complex Dynamical Networks Based on Spectral Properties of Grounded Laplacian Matrices. *Liu, H., +, TSMC Feb. 2021 786-796*

Output Homogenization and Synchronization of Heterogeneous Nonlinear Multiagent Networks. *Wei, Y., +, TSMC Dec. 2021 7295-7304*

- Sampled-Based Consensus for Nonlinear Multiagent Systems With Deception Attacks: The Decoupled Method. *Cui, Y., +, TSMC Jan. 2021 561-573*
- Second-Order Consensus of Hybrid Multiagent Systems. *Su, H., +, TSMC Oct. 2021 6503-6512*
- The Role of Reverse Edges on Consensus Performance of Chain Networks. *Hao, Y., +, TSMC March 2021 1757-1765*
- Electric current control**
- Adaptive Control for Three-Phase Power Converters With Disturbance Rejection Performance. *Yin, Y., +, TSMC Feb. 2021 674-685*
- Electric vehicle charging**
- Toward Pre-Empted EV Charging Recommendation Through V2V-Based Reservation System. *Cao, Y., +, TSMC May 2021 3026-3039*
- Electrical engineering**
- H_∞ Output Anti-Disturbance Control of Stochastic Markov Jump Systems With Multiple Disturbances. *Shen, M., +, TSMC Dec. 2021 7633-7643*
- Electrodes**
- Emotion Classification Using EEG Brain Signals and the Broad Learning System. *Issa, S., +, TSMC Dec. 2021 7382-7391*
- Electroencephalography**
- A Complex Network-Based Broad Learning System for Detecting Driver Fatigue From EEG Signals. *Yang, Y., +, TSMC Sept. 2021 5800-5808*
- Classification of EEG Signals on VEP-Based BCI Systems With Broad Learning. *Gao, Z., +, TSMC Nov. 2021 7143-7151*
- Direct-Sense Brain-Computer Interfaces and Wearable Computers. *Lin, C., +, TSMC Jan. 2021 298-312*
- Emotion Classification Using EEG Brain Signals and the Broad Learning System. *Issa, S., +, TSMC Dec. 2021 7382-7391*
- Ensemble Learning Based Brain-Computer Interface System for Ground Vehicle Control. *Zhuang, J., +, TSMC Sept. 2021 5392-5404*
- On the Utility of Power Spectral Techniques With Feature Selection Techniques for Effective Mental Task Classification in Noninvasive BCI. *Gupta, A., +, TSMC May 2021 3080-3092*
- Electromagnetic actuators**
- Independent Electromagnetic Field Control for Practical Approach to Actively Locomotive Wireless Capsule Endoscope. *Hoang, M.C., +, TSMC May 2021 3040-3052*
- Electromagnetic fields**
- Independent Electromagnetic Field Control for Practical Approach to Actively Locomotive Wireless Capsule Endoscope. *Hoang, M.C., +, TSMC May 2021 3040-3052*
- Electromyography**
- A Wearable Ultrasound System for Sensing Muscular Morphological Deformations. *Yang, X., +, TSMC June 2021 3370-3379*
- Electronic commerce**
- Managing Online Channel and Optimization in Supply Chain Systems With Different Channel Leaderships. *Xu, L., +, TSMC Nov. 2021 7177-7190*
- Electronic countermeasures**
- Capability Oriented Equipment Contribution Analysis in Temporal Combat Networks. *Li, J., +, TSMC Feb. 2021 696-704*
- Embedded systems**
- Discriminative Face Hallucination via Locality-Constrained and Category Embedding Representation. *Liu, L., +, TSMC Dec. 2021 7314-7325*
- Distributed Virtual Network Embedding System With Historical Archives and Set-Based Particle Swarm Optimization. *Song, A., +, TSMC Feb. 2021 927-942*
- Modular Lightweight Network for Road Object Detection Using a Feature Fusion Approach. *Liu, Y., +, TSMC Aug. 2021 4716-4728*
- Emergency management**
- Time-Efficient Indoor Navigation and Evacuation With Fastest Path Planning Based on Internet of Things Technologies. *Chen, L., +, TSMC May 2021 3125-3135*
- Emergency services**
- Deep Q-Learning With Q-Matrix Transfer Learning for Novel Fire Evacuation Environment. *Sharma, J., +, TSMC Dec. 2021 7363-7381*
- Emotion recognition**
- Connecting Model-Based and Model-Free Control With Emotion Modulation in Learning Systems. *Huang, X., +, TSMC Aug. 2021 4624-4638*
- Crowd Behavior Simulation With Emotional Contagion in Unexpected Multihazard Situations. *Xu, M., +, TSMC March 2021 1567-1581*
- Design and Analysis of a Human-Machine Interaction System for Researching Human's Dynamic Emotion. *Sun, X., +, TSMC Oct. 2021 6111-6121*
- Weight-Adapted Convolution Neural Network for Facial Expression Recognition in Human-Robot Interaction. *Wu, M., +, TSMC March 2021 1473-1484*
- YSUY: Your Smartphone Understands You—Using Machine Learning to Address Fundamental Human Needs. *Akmandor, A.O., +, TSMC Dec. 2021 7553-7568*
- Encoding**
- Distributed Quantized Optimization Design of Continuous-Time Multiagent Systems Over Switching Graphs. *Chen, Z., +, TSMC Nov. 2021 7152-7163*
- End effectors**
- Pose Synchronization of Multiple Networked Manipulators Using Nonsingular Terminal Sliding Mode Control. *Shen, H., +, TSMC Dec. 2021 7497-7509*
- Skill Learning From Human Demonstrations Using Dynamical Regressive Models for Multitask Applications. *Dutta, S., +, TSMC Jan. 2021 659-672*
- Trajectory Planning of Free-Floating Space Manipulators With Spacecraft Attitude Stabilization and Manipulability Optimization. *Lu, X., +, TSMC Dec. 2021 7346-7362*
- Two Hybrid Multiobjective Motion Planning Schemes Synthesized by Recurrent Neural Networks for Wheeled Mobile Robot Manipulators. *Zhang, Z., +, TSMC May 2021 3270-3281*
- Endoscopes**
- Independent Electromagnetic Field Control for Practical Approach to Actively Locomotive Wireless Capsule Endoscope. *Hoang, M.C., +, TSMC May 2021 3040-3052*
- Quality Inspection Based on Quadrangular Object Detection for Deep Aperture Component. *Zhang, J., +, TSMC Oct. 2021 5938-5948*
- Energy conservation**
- Resilient State Estimation of Cyber-Physical System With Multichannel Transmission Under DoS Attack. *Yuan, H., +, TSMC Nov. 2021 6926-6937*
- Energy consumption**
- Two-Echelon Routing Problem for Parcel Delivery by Cooperated Truck and Drone. *Liu, Y., +, TSMC Dec. 2021 7450-7465*
- Energy harvesting**
- On Feasibility of Multichannel Reconfigurable Wireless Sensor Networks Under Real-Time and Energy Constraints. *Aissa, Y.B., +, TSMC March 2021 1446-1461*
- Energy management systems**
- Toward Optimal Risk-Averse Configuration for HESS With CGANs-Based PV Scenario Generation. *Yang, X., +, TSMC March 2021 1779-1793*
- Energy storage**
- Intelligent Controller for Energy Storage System in Grid-Connected Microgrid. *Teo, T.T., +, TSMC Jan. 2021 650-658*
- Toward Optimal Risk-Averse Configuration for HESS With CGANs-Based PV Scenario Generation. *Yang, X., +, TSMC March 2021 1779-1793*
- Engines**
- Dwell-Time-Based Exponential Stabilization of Switched Positive Systems With Actuator Saturation. *Ma, R., +, TSMC Dec. 2021 7685-7691*
- Entropy**
- Data-Driven Pareto-DE-Based Intelligent Optimal Operational Control for Stochastic Processes. *Yin, L., +, TSMC July 2021 4443-4452*
- Effects of Outliers on the Maximum Correntropy Estimation: A Robustness Analysis. *Chen, B., +, TSMC June 2021 4007-4012*
- Minimum Error Entropy Kalman Filter. *Chen, B., +, TSMC Sept. 2021 5819-5829*
- Modeling a Decision-Maker's Choice Behavior Through Perceived Values. *Aggarwal, M., TSMC March 2021 1933-1944*
- Epidemics**
- A Binary Particle Swarm Optimizer With Priority Planning and Hierarchical Learning for Networked Epidemic Control. *Zhao, T., +, TSMC Aug. 2021 5090-5104*
- Infection-Probability-Dependent Interlayer Interaction Propagation Processes in Multiplex Networks. *Liu, J., +, TSMC Feb. 2021 1085-1096*
- Minimum Dominating Set of Multiplex Networks: Definition, Application, and Identification. *Zhao, D., +, TSMC Dec. 2021 7823-7837*

Suboptimal Control and Targeted Constant Control for Semi-Random Epidemic Networks. *Li, K., +, TSMC April 2021 2602-2610*

Error compensation

Two-Dimensional Iterative Learning Model Predictive Control for Batch Processes: A New State Space Model Compensation Approach. *Zhang, R., +, TSMC Feb. 2021 833-841*

Estimation error

State Estimation for Networked Systems With Markov Driven Transmission and Buffer Constraint. *Xu, Y., +, TSMC Dec. 2021 7727-7734*

Estimation theory

Detection of Data Integrity Attacks in Distributed State Estimation. *Xia, Y., +, TSMC Dec. 2021 7735-7744*

Distributed Fusion Estimation for Multisensor Multirate Systems With Packet Dropout Compensations and Correlated Noises. *Tian, T., +, TSMC Sept. 2021 5762-5772*

Estimating Minimal Domains of Attraction for Uncertain Nonlinear Systems. *Wang, S., +, TSMC Dec. 2021 7776-7787*

Fixed-Time Consensus Tracking for Second-Order Multiagent Systems Under Disturbance. *Liu, Y., +, TSMC Aug. 2021 4883-4894*

Optimal Stealthy Innovation-Based Attacks With Historical Data in Cyber-Physical Systems. *Li, Y., +, TSMC June 2021 3401-3411*

Event detection

Event-Triggered Optimal Control for Discrete-Time Switched Nonlinear Systems With Constrained Control Input. *Han, X., +, TSMC Dec. 2021 7850-7859*

Event-Triggered Output Regulation for Networked Flight Control System Based on an Asynchronous Switched System Approach. *Li, L., +, TSMC Dec. 2021 7675-7684*

Evolutionary computation

A Multistage Evolutionary Algorithm for Better Diversity Preservation in Multiobjective Optimization. *Tian, Y., +, TSMC Sept. 2021 5880-5894*

A New Fitness Function With Two Rankings for Evolutionary Constrained Multiobjective Optimization. *Ma, Z., +, TSMC Aug. 2021 5005-5016*

A Parallel Social Spider Optimization Algorithm Based on Emotional Learning. *Lai, Z., +, TSMC Feb. 2021 797-808*

An N -State Markovian Jumping Particle Swarm Optimization Algorithm. *Rahman, I.U., +, TSMC Nov. 2021 6626-6638*

An Adaptive Resource Allocation Strategy for Objective Space Partition-Based Multiobjective Optimization. *Chen, H., +, TSMC March 2021 1507-1522*

Chaotic Local Search-Based Differential Evolution Algorithms for Optimization. *Gao, S., +, TSMC June 2021 3954-3967*

Decomposition-Based Multiobjective Optimization for Constrained Evolutionary Optimization. *Wang, B., +, TSMC Jan. 2021 574-587*

Density-Enhanced Multiobjective Evolutionary Approach for Power Economic Dispatch Problems. *Ji, J., +, TSMC April 2021 2054-2067*

Indicator-Based Constrained Multiobjective Evolutionary Algorithms. *Liu, Z., +, TSMC Sept. 2021 5414-5426*

MOEA/D-Based Probabilistic PBI Approach for Risk-Based Optimal Operation of Hybrid Energy System With Intermittent Power Uncertainty. *Zhang, H., +, TSMC April 2021 2080-2090*

Muscle-Synergies-Based Neuromuscular Control for Motion Learning and Generalization of a Musculoskeletal System. *Chen, J., +, TSMC June 2021 3993-4006*

Real-Time Taxi-Passenger Matching Using a Differential Evolutionary Fuzzy Controller. *Gong, Y., +, TSMC May 2021 2712-2725*

Solving Nonlinear Equation Systems by a Two-Phase Evolutionary Algorithm. *Gao, W., +, TSMC Sept. 2021 5652-5663*

Stabilization and Finite-Time Stabilization of Probabilistic Boolean Control Networks. *Wang, L., +, TSMC March 2021 1559-1566*

Expectation-maximization algorithms

A Fast Non-Negative Latent Factor Model Based on Generalized Momentum Method. *Luo, X., +, TSMC Jan. 2021 610-620*

Measures of Scatter and Fisher Discriminant Analysis for Uncertain Data. *Tavakkol, B., +, TSMC March 2021 1690-1703*

Robust Multimodel Identification of LPV Systems With Missing Observations Based on t-Distribution. *Liu, X., +, TSMC Aug. 2021 5254-5260*

Expert systems

A Survey of Belief Rule-Base Expert System. *Zhou, Z., +, TSMC Aug. 2021 4944-4958*

Exponential distribution

Exponential Stability of Delayed Generalized Neural Networks With Intermittent Large-Delay Periods. *Yang, B., +, TSMC Dec. 2021 7392-7402*

Extreme learning machines

AUC-Based Extreme Learning Machines for Supervised and Semi-Supervised Imbalanced Classification. *Wang, G., +, TSMC Dec. 2021 7919-7930*

F

Face recognition

Adaptive Pulsatile Plane for Robust Noncontact Heart Rate Monitoring. *Tran, Q., +, TSMC Sept. 2021 5587-5599*

Discriminative Face Hallucination via Locality-Constrained and Category Embedding Representation. *Liu, L., +, TSMC Dec. 2021 7314-7325*

Fusing Skeleton Recognition With Face-TLD for Human Following of Mobile Service Robots. *Yuan, J., +, TSMC May 2021 2963-2979*

Weight-Adapted Convolution Neural Network for Facial Expression Recognition in Human-Robot Interaction. *Wu, M., +, TSMC March 2021 1473-1484*

Failure analysis

Closing-Down Optimization for Single-Arm Cluster Tools Subject to Wafer Residency Time Constraints. *Qiao, Y., +, TSMC Nov. 2021 6792-6807*

Economic Design of a Linear Consecutively Connected System Considering Cost and Signal Loss. *Gao, K., +, TSMC Aug. 2021 5116-5128*

Equipment Health Assessment Based on Improved Incremental Support Vector Data Description. *Zhang, L., +, TSMC May 2021 3205-3216*

Sequential Restorations of Complex Networks After Cascading Failures. *Huang, Y., +, TSMC Jan. 2021 400-411*

System-Level Prognostics Under Mission Profile Effects Using Inoperability Input-Output Model. *Tamssaouet, F., +, TSMC Aug. 2021 4659-4669*

Fatigue

A Complex Network-Based Broad Learning System for Detecting Driver Fatigue From EEG Signals. *Yang, Y., +, TSMC Sept. 2021 5800-5808*

Fault detection

Fault Detection for Lipschitz Nonlinear Systems With Restricted Frequency-Domain Specifications. *Li, J., +, TSMC Dec. 2021 7486-7496*

Fault diagnosis

A Sparse Dimensionality Reduction Approach Based on False Nearest Neighbors for Nonlinear Fault Detection. *Yi, J., +, TSMC Aug. 2021 4980-4992*

Adaptive Event-Triggered Fault Detection Scheme for Semi-Markovian Jump Systems With Output Quantization. *Zhang, L., +, TSMC April 2021 2370-2381*

Asynchronous Fault Detection and Isolation for Markov Jump Systems With Actuator Failures Under Networked Environment. *Long, Y., +, TSMC June 2021 3477-3487*

Deep Adversarial Domain Adaptation Model for Bearing Fault Diagnosis. *Liu, Z., +, TSMC July 2021 4217-4226*

Distributed Diagnostic Problem Solving With Colored Behavioral Petri Nets. *Mancer, S., +, TSMC June 2021 3380-3391*

Event-Driven Fault Detection for Discrete-Time Interval Type-2 Fuzzy Systems. *Pan, Y., +, TSMC Aug. 2021 4959-4968*

Fault Detection for Lipschitz Nonlinear Systems With Restricted Frequency-Domain Specifications. *Li, J., +, TSMC Dec. 2021 7486-7496*

Hidden Markov Model Based Fault Detection for Networked Singularly Perturbed Systems. *Wan, X., +, TSMC Oct. 2021 6445-6456*

Neural Network-Based Adaptive Fault-Tolerant Control for Markovian Jump Systems With Nonlinearity and Actuator Faults. *Yang, H., +, TSMC June 2021 3687-3698*

Parity Space Vector Machine Approach to Robust Fault Detection for Linear Discrete-Time Systems. *Zhong, M., +, TSMC July 2021 4251-4261*

Prescribed Performance Neuroadaptive Fault-Tolerant Compensation for MIMO Nonlinear Systems Under Extreme Actuator Failures. *Zhou, S., +, TSMC Sept. 2021 5427-5436*

- Sliding-Mode Observer-Based Fault Reconstruction for T-S Fuzzy Descriptor Systems. *Li, R., +, TSMC Aug. 2021 5046-5055*
- Soft-Bound Interval Control System and Its Robust Fault-Tolerant Controller Design. *Zhou, J., +, TSMC Jan. 2021 378-390*
- Uncertainty-Aware Fusion of Probabilistic Classifiers for Improved Trans-former Diagnostics. *Aizpurua, J.I., +, TSMC Jan. 2021 621-633*

Fault tolerance

- Active Fault-Tolerant Control for Discrete Vehicle Active Suspension Via Reduced-Order Observer. *Han, S., +, TSMC Nov. 2021 6701-6711*
- Fault-Tolerant Fuzzy Formation Control for a Class of Nonlinear Multiagent Systems Under Directed and Switching Topology. *Deng, C., +, TSMC Sept. 2021 5456-5465*
- Fuzzy Adaptive Fault-Tolerant Control of Fractional-Order Nonlinear Systems. *Li, Y., +, TSMC March 2021 1372-1379*
- Global Adaptive Control for Uncertain Nonlinear Systems With Sensor and Actuator Faults. *Ma, J., +, TSMC Sept. 2021 5503-5510*
- Implementation of Generalized Mutual Exclusion Constraints Using Critical Places and Marking Estimation. *Yang, B., +, TSMC Aug. 2021 5067-5079*
- Neural Network-Based Adaptive Fault-Tolerant Control for Markovian Jump Systems With Nonlinearity and Actuator Faults. *Yang, H., +, TSMC June 2021 3687-3698*
- Prescribed Performance Neuroadaptive Fault-Tolerant Compensation for MIMO Nonlinear Systems Under Extreme Actuator Failures. *Zhou, S., +, TSMC Sept. 2021 5427-5436*
- Soft-Bound Interval Control System and Its Robust Fault-Tolerant Controller Design. *Zhou, J., +, TSMC Jan. 2021 378-390*

Fault tolerant control

- Auxiliary Constrained Control of a Class of Fault-Tolerant Systems. *Jin, X., +, TSMC April 2021 2272-2283*
- Cooperative Fault-Tolerant Output Regulation of Linear Heterogeneous Multiagent Systems Under Directed Network Topology. *Deng, C., TSMC Aug. 2021 4773-4781*
- Fault-Tolerant Control for Dynamic Positioning Vessel With Thruster Faults Based on the Neural Modified Extended State Observer. *Yu, W., +, TSMC Sept. 2021 5905-5917*
- Fault-Tolerant Control of Multilayer Interconnected Nonlinear Systems: An Inclusion Principle Approach. *Xu, Y., +, TSMC April 2021 2403-2414*
- Fuzzy Sampled-Data Control for DFIG-Based Wind Turbine With Stochastic Actuator Failures. *Sharmila, V., +, TSMC April 2021 2199-2211*
- Neural Networks-Based Fault Tolerant Control of a Robot via Fast Terminal Sliding Mode. *Zhang, S., +, TSMC July 2021 4091-4101*
- Nonlinear Control of Quadrotor for Fault Tolerance: A Total Failure of One Actuator. *Wu, Y., +, TSMC May 2021 2810-2820*
- Quantized Sliding Mode Control of Unmanned Marine Vehicles: Various Thruster Faults Tolerated With a Unified Model. *Hao, L., +, TSMC March 2021 2012-2026*
- Reliable Control for Vehicle Active Suspension Systems Under Event-Triggered Scheme With Frequency Range Limitation. *Fei, Z., +, TSMC March 2021 1630-1641*
- Small-Gain Technique-Based Adaptive Neural Output-Feedback Fault-Tolerant Control of Switched Nonlinear Systems With Unmodeled Dynamics. *Ma, L., +, TSMC Nov. 2021 7051-7062*

Fault tolerant systems

- Active Fault-Tolerant Control for Discrete Vehicle Active Suspension Via Reduced-Order Observer. *Han, S., +, TSMC Nov. 2021 6701-6711*

Feature extraction

- A Construction of Robust Representations for Small Data Sets Using Broad Learning System. *Tang, H., +, TSMC Oct. 2021 6074-6084*
- A Novel Approach to Image-Sequence-Based Mobile Robot Place Recognition. *Yuan, J., +, TSMC Sept. 2021 5377-5391*
- A Novel Fuzzy Logic-Based Text Classification Method for Tracking Rare Events on Twitter. *Lu, X.S., +, TSMC July 2021 4324-4333*
- A Novel Multicamera System for High-Speed Touchless Palm Recognition. *Liang, X., +, TSMC March 2021 1534-1548*
- A Visual Leader-Following Approach With a T-D-R Framework for Quadru-ped Robots. *Pang, L., +, TSMC April 2021 2342-2354*
- Adaptive Pulsatile Plane for Robust Noncontact Heart Rate Monitoring. *Tran, Q., +, TSMC Sept. 2021 5587-5599*

- Classification of EEG Signals on VEP-Based BCI Systems With Broad Learning. *Gao, Z., +, TSMC Nov. 2021 7143-7151*
- Deep Adversarial Domain Adaptation Model for Bearing Fault Diagnosis. *Liu, Z., +, TSMC July 2021 4217-4226*
- Device-Free Orientation Detection Based on CSI and Visibility Graph. *Wu, Z., +, TSMC July 2021 4433-4442*
- Emotion Classification Using EEG Brain Signals and the Broad Learning System. *Issa, S., +, TSMC Dec. 2021 7382-7391*
- Ensemble Learning Based Brain-Computer Interface System for Ground Vehicle Control. *Zhuang, J., +, TSMC Sept. 2021 5392-5404*
- Equipment Health Assessment Based on Improved Incremental Support Vector Data Description. *Zhang, L., +, TSMC May 2021 3205-3216*
- Fusing Skeleton Recognition With Face-TLD for Human Following of Mobile Service Robots. *Yuan, J., +, TSMC May 2021 2963-2979*
- Global and Local-Contrast Guides Content-Aware Fusion for RGB-D Saliency Prediction. *Zhou, W., +, TSMC June 2021 3641-3649*
- Measures of Scatter and Fisher Discriminant Analysis for Uncertain Data. *Tavakkol, B., +, TSMC March 2021 1690-1703*
- Modified Sparse Representation Classification Framework for Online Writer Identification. *Venugopal, V., +, TSMC Jan. 2021 314-325*
- Modular Lightweight Network for Road Object Detection Using a Feature Fusion Approach. *Liu, Y., +, TSMC Aug. 2021 4716-4728*
- Multialgorithm Fusion Image Processing for High Speed Railway Dropper Failure-Defect Detection. *Tan, P., +, TSMC July 2021 4466-4478*
- Multilabel Image Classification via Feature/Label Co-Projection. *Wen, S., +, TSMC Nov. 2021 7250-7259*
- Multilevel Image-Enhanced Sentence Representation Net for Natural Language Inference. *Zhang, K., +, TSMC June 2021 3781-3795*
- Multiscale Multipath Ensemble Convolutional Neural Network. *Wang, X., +, TSMC Sept. 2021 5918-5928*
- On the Utility of Power Spectral Techniques With Feature Selection Techniques for Effective Mental Task Classification in Noninvasive BCI. *Gupta, A., +, TSMC May 2021 3080-3092*
- Promotion of Answer Value Measurement With Domain Effects in Community Question Answering Systems. *Jin, B., +, TSMC May 2021 3068-3079*
- Robust 3-D Object Recognition via View-Specific Constraint. *Liu, H., +, TSMC Nov. 2021 7109-7119*
- Solving Optimization Problems Through Fully Convolutional Networks: An Application to the Traveling Salesman Problem. *Ling, Z., +, TSMC Dec. 2021 7475-7485*
- Weight-Adapted Convolution Neural Network for Facial Expression Recognition in Human-Robot Interaction. *Wu, M., +, TSMC March 2021 1473-1484*
- YSUY: Your Smartphone Understands You—Using Machine Learning to Address Fundamental Human Needs. *Akmandor, A.O., +, TSMC Dec. 2021 7553-7568*

Feature selection

- Wrapper Framework for Test-Cost-Sensitive Feature Selection. *Jiang, L., +, TSMC March 2021 1747-1756*

Feedback

- H_∞ Control for Observer-Based Non-Negative Scaled Edge-Consensus of Networked Systems. *Sun, Y., +, TSMC Dec. 2021 7801-7812*
- A Control-Theoretic Study on Iterative Solution to Control Allocation for Over-Actuated Aircraft. *Cui, L., +, TSMC June 2021 3429-3439*
- A Dynamic Event-Triggered Approach to H_∞ Control for Discrete-Time Singularly Perturbed Systems With Time-Delays and Sensor Saturations. *Ma, L., +, TSMC Nov. 2021 6614-6625*
- A New Switched System Approach to Leader-Follower Consensus of Heterogeneous Linear Multiagent Systems With DoS Attack. *Zhang, D., +, TSMC Feb. 2021 1258-1266*
- A Novel Finite-Time Control for Nonstrict Feedback Saturated Nonlinear Systems With Tracking Error Constraint. *Sun, K., +, TSMC June 2021 3968-3979*
- A Personalized Consensus Feedback Mechanism Based on Maximum Harmony Degree. *Cao, M., +, TSMC Oct. 2021 6134-6146*

- A Personalized Feedback Mechanism Based on Bounded Confidence Learning to Support Consensus Reaching in Group Decision Making. *Zha, Q., +, TSMC June 2021 3900-3910*
- A Robust Hybrid of a Feedback Linearization Technique and an Interval Type-2 Fuzzy Control System for the Flapping Angle Dynamics of a Biomimetic Aircraft. *Santoso, F., +, TSMC Sept. 2021 5664-5673*
- Adaptive Finite-Time Tracking Control for Continuous Stirred Tank Reactor With Time-Varying Output Constraint. *Li, D., +, TSMC Sept. 2021 5929-5934*
- Adaptive Fixed-Time Control of Error-Constrained Pure-Feedback Interconnected Nonlinear Systems. *Zhou, Q., +, TSMC Oct. 2021 6369-6380*
- Adaptive Leaderless Consensus Control of Strict-Feedback Nonlinear Multiagent Systems With Unknown Control Directions. *Rezaee, H., +, TSMC Oct. 2021 6435-6444*
- Adaptive Neural Network Control Design for Uncertain Nonstrict Feedback Nonlinear System With State Constraints. *Ma, L., +, TSMC June 2021 3678-3686*
- Adaptive Neural Tracking Control Scheme of Switched Stochastic Nonlinear Pure-Feedback Nonlower Triangular Systems. *Niu, B., +, TSMC Feb. 2021 975-986*
- Adaptive NN Cross Backstepping Control for Nonlinear Systems With Partial Time-Varying State Constraints and Its Applications to Hyper-Chaotic Systems. *Li, D., +, TSMC May 2021 2821-2832*
- Adaptive Path Following Control of Unmanned Surface Vehicles Considering Environmental Disturbances and System Constraints. *Liu, Z., +, TSMC Jan. 2021 339-353*
- Adaptive Quantized Control of Output Feedback Nonlinear Systems With Input Unmodeled Dynamics Based on Backstepping and Small-Gain Method. *Xia, X., +, TSMC Sept. 2021 5686-5697*
- Adaptive Vehicle Stability Control of Half-Car Active Suspension Systems With Partial Performance Constraints. *Zeng, Q., +, TSMC March 2021 1704-1714*
- Adaptively Synchronize the Derivative Coupled Complex Networks With Proportional Delay. *Tang, Z., +, TSMC Aug. 2021 4969-4979*
- Annular Domain Finite-Time Connective Control for Large-Scale Systems With Expanding Construction. *Liu, Y., +, TSMC Oct. 2021 6159-6169*
- Asynchronous Stabilization of Boolean Control Networks With Stochastic Switched Signals. *Fang, M., +, TSMC April 2021 2425-2432*
- Attitude Exponential Stabilization Control of Rigid Bodies via Disturbance Observer. *Xiao, B., +, TSMC May 2021 2751-2759*
- Bandwidth Allocation-Based Switched Dynamic Triggering Control Against DoS Attacks. *Hu, S., +, TSMC Oct. 2021 6050-6061*
- Bank of High-Gain Observers in Output Feedback Control: Robustness Analysis Against Measurement Noise. *Esfandiari, K., +, TSMC April 2021 2476-2487*
- Boundary Output Constrained Control for a Flexible Beam System With Prescribed Performance. *Zhao, Z., +, TSMC Aug. 2021 4650-4658*
- Cluster Event-Triggered Tracking Cooperative and Formation Control for Multivehicle Systems: An Extended Magnification Region Condition. *Wang, B., TSMC May 2021 3229-3239*
- Command Filter-Based Adaptive Prescribed Performance Tracking Control for Stochastic Uncertain Nonlinear Systems. *Sun, W., +, TSMC Oct. 2021 6555-6563*
- Consensus of Multiagent Systems With Time-Varying Input Delay via Truncated Predictor Feedback. *Chu, H., +, TSMC Oct. 2021 6062-6073*
- Control Design for Uncertain Switched Nonlinear Systems: Adaptive Neural Approach. *Liu, Z., +, TSMC April 2021 2322-2331*
- Cooperative Consensus for Heterogeneous Nonlinear Multiagent Systems Under a Leader Having Bounded Unknown Inputs. *Wang, B., TSMC Nov. 2021 7075-7086*
- Cooperative Moving-Target Enclosing Control for Multiple Nonholonomic Vehicles Using Feedback Linearization Approach. *Peng, X., +, TSMC Aug. 2021 4929-4935*
- Cooperative Target Enclosing Control of Multiple Mobile Robots Subject to Input Disturbances. *Yu, X., +, TSMC June 2021 3440-3449*
- Data-Driven Output-Feedback LQ Secure Control for Unknown Cyber-Physical Systems Against Sparse Actuator Attacks. *Shen, X., +, TSMC Sept. 2021 5708-5720*
- Decentralized Event-Triggered Tracking of a Class of Uncertain Interconnected Nonlinear Systems Using Minimal Function Approximators. *Choi, Y.H., +, TSMC March 2021 1766-1778*
- Design of Output-Based Finite-Time Convergent Composite Controller for a Class of Perturbed Second-Order Nonlinear Systems. *Zhu, W., +, TSMC Nov. 2021 6768-6778*
- Distributed Bipartite Consensus of Linear Multiagent Systems Based on Event-Triggered Output Feedback Control Scheme. *Cai, Y., +, TSMC Nov. 2021 6743-6756*
- Distributed Containment Control of MIMO Pure-Feedback Multiagent Systems Using Filter-Driven-Approximation Approach. *Choi, Y.H., +, TSMC Sept. 2021 5490-5502*
- Distributed Containment Maneuvering of Uncertain Multiagent Systems in MIMO Strict-Feedback Form. *Zhang, Y., +, TSMC Feb. 2021 1354-1364*
- Distributed Output-Feedback Tracking of Multiple Nonlinear Systems With Unmeasurable States. *Li, W., +, TSMC Jan. 2021 477-486*
- Echo State Network-Based Decentralized Control of Continuous-Time Nonlinear Large-Scale Interconnected Systems. *Zhang, H., +, TSMC Oct. 2021 6293-6303*
- Estimate-Based Dynamic Event-Triggered Output Feedback Control of Networked Nonlinear Uncertain Systems. *Sun, J., +, TSMC May 2021 3148-3158*
- Event-Triggered Adaptive Output Feedback Control of Multivariable Systems With Nonsmooth Actuator Nonlinearities. *Yang, Y., +, TSMC Sept. 2021 5557-5566*
- Event-Triggered Control for Multiagent Systems With Sensor Faults and Input Saturation. *Cao, L., +, TSMC June 2021 3855-3866*
- Event-Triggered Distributed H_∞ Constrained Control of Physically Interconnected Large-Scale Partially Unknown Strict-Feedback Systems. *Tan, L.N., TSMC April 2021 2444-2456*
- Event-Triggered Robust Output Regulation of Uncertain Linear Systems With Unknown Exosystems. *Qian, Y., +, TSMC July 2021 4139-4148*
- Event-Triggered Security Output Feedback Control for Networked Interconnected Systems Subject to Cyber-Attacks. *Gu, Z., +, TSMC Oct. 2021 6197-6206*
- Exponentially Stabilizing Observer-Based Feedback Control of a Sampled-Data Linear Parabolic Multiple-Input–Multiple-Output PDE. *Wang, J., TSMC Sept. 2021 5742-5751*
- Fault-Tolerant Control for Dynamic Positioning Vessel With Thruster Faults Based on the Neural Modified Extended State Observer. *Yu, W., +, TSMC Sept. 2021 5905-5917*
- Finite-Time Synchronization for Switched Neural Networks via Quantized Feedback Control. *Guan, C., +, TSMC May 2021 2873-2884*
- Finite-Time Synchronization of Memristor-Based Recurrent Neural Networks With Inertial Items and Mixed Delays. *Lu, Z., +, TSMC May 2021 2701-2711*
- Fractional-Order PID Controller Synthesis for Bifurcation of Fractional-Order Small-World Networks. *Xiao, M., +, TSMC July 2021 4334-4346*
- Fuzzy-Affine-Model-Based Output Feedback Dynamic Sliding Mode Controller Design of Nonlinear Systems. *Ji, W., +, TSMC March 2021 1652-1661*
- Global Consensus of Positive Edge System With Sector Input Nonlinearities. *Wu, H., +, TSMC July 2021 4057-4066*
- Global Event-Triggered Output Feedback Stabilization of a Class of Nonlinear Systems. *Cheng, Y., +, TSMC July 2021 4040-4047*
- Global Output Feedback Sampled-Data Stabilization of a Class of Switched Nonlinear Systems in the p-Normal Form. *Li, S., +, TSMC Feb. 2021 1075-1084*
- Hamiltonian-Driven Hybrid Adaptive Dynamic Programming. *Yang, Y., +, TSMC Oct. 2021 6423-6434*
- Impedance Control for Coordinated Robots by State and Output Feedback. *Dong, Y., +, TSMC Aug. 2021 5056-5066*
- Input–Output Finite-Time Reliable Static Output Control of Time-Varying System With Input Delay. *Chen, M., +, TSMC Feb. 2021 1334-1344*

- Local Stabilization of Continuous-Time T-S Fuzzy Systems With Partly Measurable Premise Variables and Time-Varying Delay. *Wu, Y., +, TSMC Jan. 2021 326-338*
- LPV Scheme for Robust Adaptive Output Feedback Consensus of Lipschitz Multiagents Using Lipschitz Nonlinear Protocol. *Rehman, A.u., +, TSMC Nov. 2021 7040-7050*
- Model-Based Periodic Event-Triggered Control Strategy to Stabilize a Scalar Nonlinear System. *Dou, R., +, TSMC Sept. 2021 5322-5335*
- Multisensor-Based Navigation and Control of a Mobile Service Robot. *Yuan, W., +, TSMC April 2021 2624-2634*
- Neuro-Fuzzy-Based Adaptive Dynamic Surface Control for Fractional-Order Nonlinear Strict-Feedback Systems With Input Constraint. *Song, S., +, TSMC June 2021 3575-3586*
- Observer-Based Adaptive Event-Triggered Control for Nonstrict-Feedback Nonlinear Systems With Output Constraint and Actuator Failures. *Cao, L., +, TSMC March 2021 1380-1391*
- Observer-Based Finite-Time Control for Distributed Path Maneuvering of Underactuated Unmanned Surface Vehicles With Collision Avoidance and Connectivity Preservation. *Gu, N., +, TSMC Aug. 2021 5105-5115*
- On Finite-Duration Convergent Attracting Laws. *Sun, M., +, TSMC Aug. 2021 5017-5029*
- Optimal Output Synchronization Control of a Class of Complex Dynamical Networks With Partially Unknown System Dynamics. *Wang, N., +, TSMC Feb. 2021 822-832*
- Output-Feedback Adaptive Control of Nonlinear Systems With Input-Output-Dependent Lower-Triangular Growth Rate: A Logic-Based Switching Approach. *Huang, C., +, TSMC Aug. 2021 4804-4813*
- Output-Feedback-Based Consensus Control Without Continuous Interagent Communication. *Shih, C., +, TSMC May 2021 3240-3250*
- Position-Tracking Controller for Two-Wheeled Balancing Robot Applications Using Invariant Dynamic Surface. *Kim, S., +, TSMC Feb. 2021 705-711*
- Prescribed Performance Neuroadaptive Fault-Tolerant Compensation for MIMO Nonlinear Systems Under Extreme Actuator Failures. *Zhou, S., +, TSMC Sept. 2021 5427-5436*
- Quantized Sliding Mode Control of Unmanned Marine Vehicles: Various Thruster Faults Tolerated With a Unified Model. *Hao, L., +, TSMC March 2021 2012-2026*
- Quantized Static Output Feedback Fuzzy Tracking Control for Discrete-Time Nonlinear Networked Systems With Asynchronous Event-Triggered Constraints. *Li, Z., +, TSMC June 2021 3820-3831*
- Reduced Adaptive Fuzzy Tracking Control for High-Order Stochastic Nonstrict Feedback Nonlinear System With Full-State Constraints. *Sun, W., +, TSMC March 2021 1496-1506*
- Reduced-Order Estimator-Based Efficient Fault-Tolerant Tracking Control Optimization for Constrained LPV Systems. *Han, K., +, TSMC Sept. 2021 5855-5866*
- Reduced-Order Observer-Based Adaptive Fuzzy Tracking Control Scheme of Stochastic Switched Nonlinear Systems. *Niu, B., +, TSMC July 2021 4566-4578*
- Robust Exact Predictive Scheme for Output-Feedback Control of Input-Delay Systems With Unmatched Sinusoidal Disturbances. *Shi, S., +, TSMC Sept. 2021 5357-5366*
- Robust LMI-Based H-Infinite Controller Integrating AFS and DYC of Autonomous Vehicles With Parametric Uncertainties. *Cheng, S., +, TSMC Nov. 2021 6901-6910*
- Robust Resilient Control Based on Multi-Approximator for the Uncertain Turbofan System With Unmeasured States and Disturbances. *Li, Y., +, TSMC Oct. 2021 6040-6049*
- Semiglobal Observer-Based Positive Scaled Edge-Consensus of Networked Discrete-Time Systems Under Actuator Saturation. *Sun, Y., +, TSMC July 2021 4543-4554*
- Sliding Mode Control for a Class of Nonlinear Singular Systems With Partly Immeasurable Premise Variables. *Sun, X., +, TSMC April 2021 2433-2443*
- Small-Gain Technique-Based Adaptive Neural Output-Feedback Fault-Tolerant Control of Switched Nonlinear Systems With Unmodeled Dynamics. *Ma, L., +, TSMC Nov. 2021 7051-7062*
- Stability Analysis for Input Saturated Discrete-Time Switched Systems With Average Dwell-Time. *Wang, Q., +, TSMC Jan. 2021 412-419*
- Stability and Stabilization for T-S Fuzzy Large-Scale Interconnected Power System With Wind Farm via Sampled-Data Control. *Shanmugam, L., +, TSMC April 2021 2134-2144*
- Stabilization and Finite-Time Stabilization of Probabilistic Boolean Control Networks. *Wang, L., +, TSMC March 2021 1559-1566*
- Stabilization of Stochastic Retarded Systems Based on Sampled-Data Feedback Control. *Yang, X., +, TSMC Sept. 2021 5895-5904*
- Synchronization of Resilient Complex Networks Under Attacks. *Wang, P., +, TSMC Feb. 2021 1116-1127*
- Threshold-Function-Dependent Quasi-Synchronization of Delayed Memristive Neural Networks via Hybrid Event-Triggered Control. *Yan, Z., +, TSMC Nov. 2021 6712-6722*
- Time-Scale Redesign-Based Saturated Controller Synthesis for a Class of MIMO Nonlinear Systems. *Rayguru, M.M., +, TSMC Aug. 2021 4681-4692*
- Unknown Dynamics Estimator-Based Output-Feedback Control for Nonlinear Pure-Feedback Systems. *Na, J., +, TSMC June 2021 3832-3843*
- Variable Cut-Off Frequency Algorithm-Based Nonlinear Position Controller for Magnetic Levitation System Applications. *Kim, S., +, TSMC July 2021 4599-4605*
- Vision-Assisted Autonomous Lower-Limb Exoskeleton Robot. *Liu, D., +, TSMC June 2021 3759-3770*
- Visual Servoing of a Flexible Aerial Refueling Boom With an Eye-in-Hand Camera. *Cui, L., +, TSMC Oct. 2021 6282-6292*
- Feedforward**
- Event-Triggered Distributed H_∞ Constrained Control of Physically Interconnected Large-Scale Partially Unknown Strict-Feedback Systems. *Tan, L.N., TSMC April 2021 2444-2456*
- Experimental Output Regulation of Linear Motor Driven Inverted Pendulum With Friction Compensation. *Ping, Z., +, TSMC June 2021 3751-3758*
- Optimal Output Synchronization Control of a Class of Complex Dynamical Networks With Partially Unknown System Dynamics. *Wang, N., +, TSMC Feb. 2021 822-832*
- Robust Resilient Control Based on Multi-Approximator for the Uncertain Turbofan System With Unmeasured States and Disturbances. *Li, Y., +, TSMC Oct. 2021 6040-6049*
- Feedforward neural networks**
- Neural Modeling With Guaranteed Input-Output Probability Distributions. *Yu, W., +, TSMC Nov. 2021 6660-6668*
- File organization**
- Proof of Previous Transactions (PoPT): An Efficient Approach to Consensus for JCLedger. *Xiang, F., +, TSMC April 2021 2415-2424*
- Filtering theory**
- H_∞ Filtering for Nonhomogeneous Markovian Jump Repeated Scalar Nonlinear Systems With Multiplicative Noises and Partially Mode-Dependent Characterization. *Hua, M., +, TSMC May 2021 3180-3192*
- A Prediction-Based Approach to Distributed Filtering With Missing Measurements and Communication Delays Through Sensor Networks. *Hu, J., +, TSMC Nov. 2021 7063-7074*
- A Visual Leader-Following Approach With a T-D-R Framework for Quadruped Robots. *Pang, L., +, TSMC April 2021 2342-2354*
- Asynchronous Fault Detection and Isolation for Markov Jump Systems With Actuator Failures Under Networked Environment. *Long, Y., +, TSMC June 2021 3477-3487*
- Asynchronous Finite-Time Filtering of Markov Jump Nonlinear Systems and Its Applications. *Ren, H., +, TSMC March 2021 1725-1734*
- Dissipativity-Based Two-Dimensional Control and Filtering for a Class of Switched Systems. *Yang, R., +, TSMC May 2021 2737-2750*
- Distributed Fusion Estimation for Multisensor Multirate Systems With Packet Dropout Compensations and Correlated Noises. *Tian, T., +, TSMC Sept. 2021 5762-5772*
- Event-Based Distributed Adaptive Kalman Filtering With Unknown Covariance of Process Noises. *Mao, J., +, TSMC Oct. 2021 6170-6182*
- Fixed-Time Consensus Tracking for Second-Order Multiagent Systems Under Disturbance. *Liu, Y., +, TSMC Aug. 2021 4883-4894*

Forward-Backward Smoothers With Finite Impulse Response Structure. *Vicente, A., +, TSMC Feb. 2021 765-774*

Hidden Markov Model Based Fault Detection for Networked Singularly Perturbed Systems. *Wan, X., +, TSMC Oct. 2021 6445-6456*

Moving Horizon Estimation of Networked Nonlinear Systems With Random Access Protocol. *Zou, L., +, TSMC May 2021 2937-2948*

Partial-Nodes-Based Scalable H_∞ -Consensus Filtering With Censored Measurements Over Sensor Networks. *Han, F., +, TSMC March 2021 1892-1903*

Resilient H_∞ Filtering for Event-Triggered Networked Systems Under Non-periodic DoS Jamming Attacks. *Hu, S., +, TSMC March 2021 1392-1403*

Financial management

Economic Design of a Linear Consecutively Connected System Considering Cost and Signal Loss. *Gao, K., +, TSMC Aug. 2021 5116-5128*

Fingerprint identification

Fast Pore Comparison for High Resolution Fingerprint Images Based on Multiple Co-Occurrence Descriptors and Local Topology Similarities. *Xu, Y., +, TSMC Sept. 2021 5721-5731*

FIR filters

Adaptive Tracking Control of FIR Systems Under Binary-Valued Observations and Recursive Projection Identification. *Wang, T., +, TSMC Sept. 2021 5289-5299*

Asymptotically Efficient Recursive Identification of FIR Systems With Binary-Valued Observations. *Zhang, H., +, TSMC May 2021 2687-2700*

Forward-Backward Smoothers With Finite Impulse Response Structure. *Vicente, A., +, TSMC Feb. 2021 765-774*

Fires

Deep Q-Learning With Q-Matrix Transfer Learning for Novel Fire Evacuation Environment. *Sharma, J., +, TSMC Dec. 2021 7363-7381*

Flexible manipulators

A Novel Robust Control Method for Motion Control of Uncertain Single-Link Flexible-Joint Manipulator. *Yan, Z., +, TSMC March 2021 1671-1678*

Boundary Disturbance Observer-Based Control of a Vibrating Single-Link Flexible Manipulator. *Zhao, Z., +, TSMC April 2021 2382-2390*

Visual Servoing of a Flexible Aerial Refueling Boom With an Eye-in-Hand Camera. *Cui, L., +, TSMC Oct. 2021 6282-6292*

Flexible manufacturing systems

Decision on Maximal Permissiveness of Linear Constraints via Structural Analysis of a Subclass of Petri Nets. *Chen, H., +, TSMC July 2021 4347-4358*

Scheduling of Flexible Manufacturing Systems Subject to No-Wait Constraints via Petri Nets and Heuristic Search. *Wang, X., +, TSMC Oct. 2021 6122-6133*

Flow simulation

Bleeding Simulation With Improved Visual Effects for Surgical Simulation Systems. *Shi, W., +, TSMC Feb. 2021 686-695*

Foot

Foot Placement Compensator Design for Humanoid Walking Based on Discrete Control Lyapunov Function. *Liu, C., +, TSMC April 2021 2332-2341*

Force control

Force Sensorless Admittance Control for Teleoperation of Uncertain Robot Manipulator Using Neural Networks. *Yang, C., +, TSMC May 2021 3282-3292*

Impedance Control for Coordinated Robots by State and Output Feedback. *Dong, Y., +, TSMC Aug. 2021 5056-5066*

Forecasting theory

Concurrent Processing Cluster Design to Empower Simultaneous Prediction for Hundreds of Vessels' Trajectories in Near Real-Time. *Xiao, Z., +, TSMC March 2021 1830-1843*

Formal logic

A Sequential Three-Way Decision Model With Intuitionistic Fuzzy Numbers. *Zhang, Q., +, TSMC May 2021 2640-2652*

Fraud

Dynamic Control of Fraud Information Spreading in Mobile Social Networks. *Lin, Y., +, TSMC June 2021 3725-3738*

Frequency control

Optimal Load Frequency Control for Networked Power Systems Based on Distributed Economic MPC. *Jia, Y., +, TSMC April 2021 2123-2133*

Resilient Load Frequency Control of Cyber-Physical Power Systems Under QoS-Dependent Event-Triggered Communication. *Sun, H., +, TSMC April 2021 2113-2122*

Stability and Stabilization for T-S Fuzzy Large-Scale Interconnected Power System With Wind Farm via Sampled-Data Control. *Shanmugam, L., +, TSMC April 2021 2134-2144*

Frequency-domain analysis

Asynchronous Fault Detection and Isolation for Markov Jump Systems With Actuator Failures Under Networked Environment. *Long, Y., +, TSMC June 2021 3477-3487*

Fault Detection for Lipschitz Nonlinear Systems With Restricted Frequency-Domain Specifications. *Li, J., +, TSMC Dec. 2021 7486-7496*

Friction

Experimental Output Regulation of Linear Motor Driven Inverted Pendulum With Friction Compensation. *Ping, Z., +, TSMC June 2021 3751-3758*

Function approximation

Decentralized Event-Triggered Tracking of a Class of Uncertain Interconnected Nonlinear Systems Using Minimal Function Approximators. *Choi, Y.H., +, TSMC March 2021 1766-1778*

Distributed Containment Control of MIMO Pure-Feedback Multiagent Systems Using Filter-Driven-Approximation Approach. *Choi, Y.H., +, TSMC Sept. 2021 5490-5502*

Efficient Batch-Mode Reinforcement Learning Using Extreme Learning Machines. *Liu, J., +, TSMC June 2021 3664-3677*

Multi-Kernel Online Reinforcement Learning for Path Tracking Control of Intelligent Vehicles. *Liu, J., +, TSMC Nov. 2021 6962-6975*

Neural Network-Based Cooperative Identification for a Class of Unknown Nonlinear Systems via Event-Triggered Communication. *Gao, F., +, TSMC March 2021 1404-1413*

Proximal Parameter Distribution Optimization. *Wang, X., +, TSMC June 2021 3771-3780*

Functional equations

Stabilization of Stochastic Retarded Systems Based on Sampled-Data Feedback Control. *Yang, X., +, TSMC Sept. 2021 5895-5904*

Fuzzy control

A Fuzzy Lyapunov Function Approach to Positive L_1 Observer Design for Positive Fuzzy Semi-Markovian Switching Systems With Its Application. *Qi, W., +, TSMC Feb. 2021 775-785*

A New Filter Design Method for a Class of Fuzzy Systems With Time Delays. *Lian, Z., +, TSMC Oct. 2021 6477-6487*

A Robust Hybrid of a Feedback Linearization Technique and an Interval Type-2 Fuzzy Control System for the Flapping Angle Dynamics of a Biomimetic Aircraft. *Santoso, F., +, TSMC Sept. 2021 5664-5673*

Adaptive Command Filtered Neuro-Fuzzy Control Design for Fractional-Order Nonlinear Systems With Unknown Control Directions and Input Quantization. *Song, S., +, TSMC Nov. 2021 7238-7249*

Adaptive Dynamic Surface Fuzzy Control for State Constrained Time-Delay Nonlinear Nonstrict Feedback Systems With Unknown Control Directions. *Sun, W., +, TSMC Dec. 2021 7423-7434*

Adaptive Finite-Time Fuzzy Funnel Control for Nonaffine Nonlinear Systems. *Liu, C., +, TSMC May 2021 2894-2903*

Adaptive Fixed-Time Control of Error-Constrained Pure-Feedback Interconnected Nonlinear Systems. *Zhou, Q., +, TSMC Oct. 2021 6369-6380*

Adaptive Fuzzy Full-State and Output-Feedback Control for Uncertain Robots With Output Constraint. *Yu, X., +, TSMC Nov. 2021 6994-7007*

Adaptive Intelligent Control for Input and Output Constrained High-Order Uncertain Nonlinear Systems. *Sun, W., +, TSMC Sept. 2021 5577-5586*

Adaptive Sliding Mode Fault-Tolerant Fuzzy Tracking Control With Application to Unmanned Marine Vehicles. *Wang, Y., +, TSMC Nov. 2021 6691-6700*

Adaptive Type-2 FNN-Based Dynamic Sliding Mode Control of DC-DC Boost Converters. *Wang, J., +, TSMC April 2021 2246-2257*

An Input Delay Approach to Interval Type-2 Fuzzy Exponential Stabilization for Nonlinear Unreliable Networked Sampled-Data Control Systems. *Du, Z., +, TSMC June 2021 3488-3497*

- Command Filter-Based Adaptive Fuzzy Control for Nonlinear Systems With Unknown Control Directions. *Xia, J.*, +, *TSMC March 2021 1945-1953*
- Command Filter-Based Adaptive Prescribed Performance Tracking Control for Stochastic Uncertain Nonlinear Systems. *Sun, W.*, +, *TSMC Oct. 2021 6555-6563*
- Coordinated Control of Underwater Biomimetic Vehicle–Manipulator System for Free Floating Autonomous Manipulation. *Cai, M.*, +, *TSMC Aug. 2021 4793-4803*
- Design of Interval Type-2 Fuzzy-Based Sampled-Data Controller for Nonlinear Systems Using Novel Fuzzy Lyapunov Functional and its Application to PMSG. *Shanmugam, L.*, +, *TSMC Jan. 2021 542-551*
- Design of Observer-Based Event-Triggered Fuzzy ISMC for T–S Fuzzy Model and its Application to PMSG. *Mani, P.*, +, *TSMC April 2021 2221-2231*
- Distributed Containment Control of MIMO Pure-Feedback Multiagent Systems Using Filter-Driven-Approximation Approach. *Choi, Y.H.*, +, *TSMC Sept. 2021 5490-5502*
- Distributed Control of Networked Nonlinear Systems via Interconnected Takagi–Sugeno Fuzzy Systems With Nonlinear Consequent. *Araujo, R.F.*, +, *TSMC Aug. 2021 4858-4867*
- Estimation for Fuzzy Semi-Markov Jump Systems With Indirectly Accessible Mode Information and Nonideal Data Transmission. *Cai, B.*, +, *TSMC July 2021 4016-4027*
- Event-Driven Fault Detection for Discrete-Time Interval Type-2 Fuzzy Systems. *Pan, Y.*, +, *TSMC Aug. 2021 4959-4968*
- Fault-Tolerant Fuzzy Formation Control for a Class of Nonlinear Multiagent Systems Under Directed and Switching Topology. *Deng, C.*, +, *TSMC Sept. 2021 5456-5465*
- Fractional-Order Finite-Time Super-Twisting Sliding Mode Control of Micro Gyroscope Based on Double-Loop Fuzzy Neural Network. *Fei, J.*, +, *TSMC Dec. 2021 7692-7706*
- Fuzzy Adaptive Fault-Tolerant Control of Fractional-Order Nonlinear Systems. *Li, Y.*, +, *TSMC March 2021 1372-1379*
- Fuzzy Adaptive Tracking Control for State Constraint Switched Stochastic Nonlinear Systems With Unstable Inverse Dynamics. *Wu, W.*, +, *TSMC Sept. 2021 5522-5534*
- Fuzzy Finite-Time Tracking Control for a Class of Nonaffine Nonlinear Systems With Unknown Dead Zones. *Bao, J.*, +, *TSMC Jan. 2021 452-463*
- Fuzzy Sampled-Data Control for DFIG-Based Wind Turbine With Stochastic Actuator Failures. *Sharmila, V.*, +, *TSMC April 2021 2199-2211*
- Fuzzy-Affine-Model-Based Output Feedback Dynamic Sliding Mode Controller Design of Nonlinear Systems. *Ji, W.*, +, *TSMC March 2021 1652-1661*
- Hybrid PD-Fuzzy and PD Controllers for Trajectory Tracking of a Quadrotor Unmanned Aerial Vehicle: Autopilot Designs and Real-Time Flight Tests. *Santoso, F.*, +, *TSMC March 2021 1817-1829*
- Improved Stability Criteria for Discrete-Time Switched T–S Fuzzy Systems. *Fei, Z.*, +, *TSMC Feb. 2021 712-720*
- Input–Output Finite-Time Sliding-Mode Control for T–S Fuzzy Systems With Application. *Qi, W.*, +, *TSMC Sept. 2021 5446-5455*
- Integrated Synchronization and Anti-Disturbance Control Design for Fuzzy Model-Based Multiweighted Complex Network. *Kaviarasan, B.*, +, *TSMC Oct. 2021 6330-6341*
- Intelligent Controller for Energy Storage System in Grid-Connected Microgrid. *Teo, T.T.*, +, *TSMC Jan. 2021 650-658*
- Interval Type-2 FNN-Based Quantized Tracking Control for Hypersonic Flight Vehicles With Prescribed Performance. *Gao, Y.*, +, *TSMC March 2021 1981-1993*
- Local Stabilization of Continuous-Time T–S Fuzzy Systems With Partly Measurable Premise Variables and Time-Varying Delay. *Wu, Y.*, +, *TSMC Jan. 2021 326-338*
- Multitask TSK Fuzzy System Modeling by Jointly Reducing Rules and Consequent Parameters. *Wang, J.*, +, *TSMC July 2021 4078-4090*
- Neural Integral Backstepping Hierarchical Sliding Mode Control for a Rideable Ballbot Under Uncertainties and Input Saturation. *Do, V.*, +, *TSMC Nov. 2021 7214-7227*
- Nonfragile Sampled-Data Filtering of Uncertain Fuzzy Systems With Time-Varying Delays. *Luo, J.*, +, *TSMC Aug. 2021 4993-5004*
- Observer-Based Adaptive Event-Triggered Control for Nonstrict-Feedback Nonlinear Systems With Output Constraint and Actuator Failures. *Cao, L.*, +, *TSMC March 2021 1380-1391*
- Observer-Based Interval Type-2 $L_2 - L_\infty/H_\infty$ Mixed Fuzzy Control for Uncertain Nonlinear Systems Under Measurement Outliers. *Zhang, Z.*, +, *TSMC Dec. 2021 7652-7662*
- Passivity-Based Fuzzy ISMC for Wind Energy Conversion Systems With PMSG. *Subramaniam, R.*, +, *TSMC April 2021 2212-2220*
- Quantized Static Output Feedback Fuzzy Tracking Control for Discrete-Time Nonlinear Networked Systems With Asynchronous Event-Triggered Constraints. *Li, Z.*, +, *TSMC June 2021 3820-3831*
- Real-Time Taxi–Passenger Matching Using a Differential Evolutionary Fuzzy Controller. *Gong, Y.*, +, *TSMC May 2021 2712-2725*
- Reduced Adaptive Fuzzy Tracking Control for High-Order Stochastic Nonstrict Feedback Nonlinear System With Full-State Constraints. *Sun, W.*, +, *TSMC March 2021 1496-1506*
- Reduced-Order Observer-Based Adaptive Fuzzy Tracking Control Scheme of Stochastic Switched Nonlinear Systems. *Niu, B.*, +, *TSMC July 2021 4566-4578*
- Reliable Fuzzy H_∞ Control for Permanent Magnet Synchronous Motor Against Stochastic Actuator Faults. *Vadivel, R.*, +, *TSMC April 2021 2232-2245*
- Security Control for T–S Fuzzy Systems With Adaptive Event-Triggered Mechanism and Multiple Cyber-Attacks. *Liu, J.*, +, *TSMC Oct. 2021 6544-6554*
- Sliding Mode Control for a Class of Nonlinear Singular Systems With Partly Immeasurable Premise Variables. *Sun, X.*, +, *TSMC April 2021 2433-2443*
- Stability and Stabilization for T–S Fuzzy Large-Scale Interconnected Power System With Wind Farm via Sampled-Data Control. *Shanmugam, L.*, +, *TSMC April 2021 2134-2144*
- Takagi–Sugeno Model-Based Reliable Sliding Mode Control of Descriptor Systems With Semi-Markov Parameters: Average Dwell Time Approach. *Jiang, B.*, +, *TSMC March 2021 1549-1558*
- Twofold Sliding Controller Design for Uncertain Switched Nonlinear Systems. *Aghababa, M.P.*, *TSMC Feb. 2021 1203-1214*
- Fuzzy logic**
- A Novel Fuzzy Logic-Based Text Classification Method for Tracking Rare Events on Twitter. *Lu, X.S.*, +, *TSMC July 2021 4324-4333*
- Adaptive Finite-Time Fuzzy Funnell Control for Nonaffine Nonlinear Systems. *Liu, C.*, +, *TSMC May 2021 2894-2903*
- Adaptive Fixed-Time Control of Error-Constrained Pure-Feedback Interconnected Nonlinear Systems. *Zhou, Q.*, +, *TSMC Oct. 2021 6369-6380*
- Fuzzy Adaptive Tracking Control for State Constraint Switched Stochastic Nonlinear Systems With Unstable Inverse Dynamics. *Wu, W.*, +, *TSMC Sept. 2021 5522-5534*
- Fuzzy Finite-Time Tracking Control for a Class of Nonaffine Nonlinear Systems With Unknown Dead Zones. *Bao, J.*, +, *TSMC Jan. 2021 452-463*
- Intelligent Controller for Energy Storage System in Grid-Connected Microgrid. *Teo, T.T.*, +, *TSMC Jan. 2021 650-658*
- Fuzzy neural networks**
- Adaptive Command Filtered Neuro-Fuzzy Control Design for Fractional-Order Nonlinear Systems With Unknown Control Directions and Input Quantization. *Song, S.*, +, *TSMC Nov. 2021 7238-7249*
- Adaptive Finite-Time Saturated Tracking Control for a Class of Partially Known Robots. *Hwang, C.*, +, *TSMC Sept. 2021 5674-5685*
- Adaptive Type-2 FNN-Based Dynamic Sliding Mode Control of DC–DC Boost Converters. *Wang, J.*, +, *TSMC April 2021 2246-2257*
- Fractional-Order Finite-Time Super-Twisting Sliding Mode Control of Micro Gyroscope Based on Double-Loop Fuzzy Neural Network. *Fei, J.*, +, *TSMC Dec. 2021 7692-7706*
- Interval Type-2 FNN-Based Quantized Tracking Control for Hypersonic Flight Vehicles With Prescribed Performance. *Gao, Y.*, +, *TSMC March 2021 1981-1993*

Neuro-Fuzzy-Based Adaptive Dynamic Surface Control for Fractional-Order Nonlinear Strict-Feedback Systems With Input Constraint. *Song, S., +, TSMC June 2021 3575-3586*

Fuzzy set theory

A Distance Measure for Intuitionistic Fuzzy Sets and Its Application to Pattern Classification Problems. *Xiao, F., TSMC June 2021 3980-3992*

A Double-Blind Anonymous Evaluation-Based Trust Model in Cloud Computing Environments. *Zhang, P., +, TSMC March 2021 1805-1816*

A Fuzzy Lyapunov Function Approach to Positive L_1 Observer Design for Positive Fuzzy Semi-Markovian Switching Systems With Its Application. *Qi, W., +, TSMC Feb. 2021 775-785*

A Generalized Golden Rule Representative Value for Multiple-Criteria Decision Analysis. *Liu, Z., +, TSMC May 2021 3193-3204*

A New Filter Design Method for a Class of Fuzzy Systems With Time Delays. *Lian, Z., +, TSMC Oct. 2021 6477-6487*

A Personalized Consensus Feedback Mechanism Based on Maximum Harmony Degree. *Cao, M., +, TSMC Oct. 2021 6134-6146*

A Robust Hybrid of a Feedback Linearization Technique and an Interval Type-2 Fuzzy Control System for the Flapping Angle Dynamics of a Biomimetic Aircraft. *Santoso, F., +, TSMC Sept. 2021 5664-5673*

A Sequential Three-Way Decision Model With Intuitionistic Fuzzy Numbers. *Zhang, Q., +, TSMC May 2021 2640-2652*

A Survey of Belief Rule-Based Expert System. *Zhou, Z., +, TSMC Aug. 2021 4944-4958*

Adaptive Type-2 FNN-Based Dynamic Sliding Mode Control of DC-DC Boost Converters. *Wang, J., +, TSMC April 2021 2246-2257*

Algorithms to Detect and Rectify Multiplicative and Ordinal Inconsistencies of Fuzzy Preference Relations. *Xu, Y., +, TSMC June 2021 3498-3511*

An Input Delay Approach to Interval Type-2 Fuzzy Exponential Stabilization for Nonlinear Unreliable Networked Sampled-Data Control Systems. *Du, Z., +, TSMC June 2021 3488-3497*

Decentralized Consensus Decision-Making for Cybersecurity Protection in Multimicrogrid Systems. *Hu, B., +, TSMC April 2021 2187-2198*

Design of Interval Type-2 Fuzzy-Based Sampled-Data Controller for Nonlinear Systems Using Novel Fuzzy Lyapunov Functional and its Application to PMSM. *Shanmugam, L., +, TSMC Jan. 2021 542-551*

Event-Driven Fault Detection for Discrete-Time Interval Type-2 Fuzzy Systems. *Pan, Y., +, TSMC Aug. 2021 4959-4968*

Fuzzy Grey Choquet Integral for Evaluation of Multicriteria Decision Making Problems With Interactive and Qualitative Indices. *Tian, G., +, TSMC March 2021 1855-1868*

Fuzzy Sampled-Data Control for DFIG-Based Wind Turbine With Stochastic Actuator Failures. *Sharmila, V., +, TSMC April 2021 2199-2211*

Integrated Synchronization and Anti-Disturbance Control Design for Fuzzy Model-Based Multiweighted Complex Network. *Kaviarasan, B., +, TSMC Oct. 2021 6330-6341*

Integrating Structural Symmetry and Local Homoplasmy Information in Intuitionistic Fuzzy Clustering for Infrared Pedestrian Segmentation. *Jin, D., +, TSMC July 2021 4365-4378*

Interval Type-2 FNN-Based Quantized Tracking Control for Hypersonic Flight Vehicles With Prescribed Performance. *Gao, Y., +, TSMC March 2021 1981-1993*

Multitask TSK Fuzzy System Modeling by Jointly Reducing Rules and Consequent Parameters. *Wang, J., +, TSMC July 2021 4078-4090*

Parametric NCP-Based Recurrent Neural Network Model: A New Strategy to Solve Fuzzy Nonconvex Optimization Problems. *Mansoori, A., +, TSMC April 2021 2592-2601*

Pythagorean Fuzzy Petri Nets for Knowledge Representation and Reasoning in Large Group Context. *Liu, H., +, TSMC Aug. 2021 5261-5271*

Revisiting Fuzzy and Linguistic Decision Making: Scenarios and Challenges for Making Wiser Decisions in a Better Way. *Herrera-Viedma, E., +, TSMC Jan. 2021 191-208*

The Graph Model for Conflict Resolution and Decision Support. *Hipel, K.W., +, TSMC Jan. 2021 131-141*

Fuzzy systems

A New Filter Design Method for a Class of Fuzzy Systems With Time Delays. *Lian, Z., +, TSMC Oct. 2021 6477-6487*

A Robust Hybrid of a Feedback Linearization Technique and an Interval Type-2 Fuzzy Control System for the Flapping Angle Dynamics of a Biomimetic Aircraft. *Santoso, F., +, TSMC Sept. 2021 5664-5673*

Command Filter-Based Adaptive Prescribed Performance Tracking Control for Stochastic Uncertain Nonlinear Systems. *Sun, W., +, TSMC Oct. 2021 6555-6563*

Composite Decision Makers in the Graph Model for Conflict Resolution: Hesitant Fuzzy Preference Modeling. *Wu, N., +, TSMC Dec. 2021 7889-7902*

Design of Interval Type-2 Fuzzy-Based Sampled-Data Controller for Nonlinear Systems Using Novel Fuzzy Lyapunov Functional and its Application to PMSM. *Shanmugam, L., +, TSMC Jan. 2021 542-551*

Distributed Control of Networked Nonlinear Systems via Interconnected Takagi-Sugeno Fuzzy Systems With Nonlinear Consequent. *Araujo, R.F., +, TSMC Aug. 2021 4858-4867*

Estimation for Fuzzy Semi-Markov Jump Systems With Indirectly Accessible Mode Information and Nonideal Data Transmission. *Cai, B., +, TSMC July 2021 4016-4027*

Event-Driven Fault Detection for Discrete-Time Interval Type-2 Fuzzy Systems. *Pan, Y., +, TSMC Aug. 2021 4959-4968*

Improved Stability Criteria for Discrete-Time Switched T-S Fuzzy Systems. *Fei, Z., +, TSMC Feb. 2021 712-720*

Input-Output Finite-Time Sliding-Mode Control for T-S Fuzzy Systems With Application. *Qi, W., +, TSMC Sept. 2021 5446-5455*

Local Stabilization of Continuous-Time T-S Fuzzy Systems With Partly Measurable Premise Variables and Time-Varying Delay. *Wu, Y., +, TSMC Jan. 2021 326-338*

Multitask TSK Fuzzy System Modeling by Jointly Reducing Rules and Consequent Parameters. *Wang, J., +, TSMC July 2021 4078-4090*

Nonfragile Sampled-Data Filtering of Uncertain Fuzzy Systems With Time-Varying Delays. *Luo, J., +, TSMC Aug. 2021 4993-5004*

Output Feedback and Stability Analysis of Positive Polynomial Fuzzy Systems. *Meng, A., +, TSMC Dec. 2021 7707-7718*

Reduced Adaptive Fuzzy Tracking Control for High-Order Stochastic Nonstrict Feedback Nonlinear System With Full-State Constraints. *Sun, W., +, TSMC March 2021 1496-1506*

Security Control for T-S Fuzzy Systems With Adaptive Event-Triggered Mechanism and Multiple Cyber-Attacks. *Liu, J., +, TSMC Oct. 2021 6544-6554*

Sliding Mode Control of Interval Type-2 Fuzzy Systems Under Round-Robin Scheduling Protocol. *Zhang, Z., +, TSMC Dec. 2021 7602-7612*

Sliding-Mode Control for Fuzzy Stochastic Systems With Different Local-Input Matrices. *Wang, Y.Y., +, TSMC Aug. 2021 4761-4772*

G

Gait analysis

Model-Based Adaptive Control of Transfemoral Prostheses: Theory, Simulation, and Experiments. *Azimi, V., +, TSMC Feb. 2021 1174-1191*

Vision-Assisted Autonomous Lower-Limb Exoskeleton Robot. *Liu, D., +, TSMC June 2021 3759-3770*

Game theory

Adaptive Dynamic Programming for Control: A Survey and Recent Advances. *Liu, D., +, TSMC Jan. 2021 142-160*

Decentralized Consensus Decision-Making for Cybersecurity Protection in Multimicrogrid Systems. *Hu, B., +, TSMC April 2021 2187-2198*

Design Optimization Using Game Theory. *Smirnov, D., +, TSMC Feb. 2021 1302-1312*

Distributed-Observer-Based Nash Equilibrium Seeking Algorithm for Quadratic Games With Nonlinear Dynamics. *Huang, B., +, TSMC Nov. 2021 7260-7268*

Game Theoretic Suppression of Forged Messages in Online Social Networks. *Wang, X., +, TSMC March 2021 1601-1611*

Mixed Coalitional Stabilities With Full Participation of Sanctioning Opponents Within the Graph Model for Conflict Resolution. *Zhao, S., +, TSMC June 2021 3911-3925*

Policy-Iteration-Based Learning for Nonlinear Player Game Systems With Constrained Inputs. *Mu, C., +, TSMC Oct. 2021 6488-6502*

- Predictive Cloud Control for Networked Multiagent Systems With Quantized Signals Under DoS Attacks. *Yang, H., +, TSMC Feb. 2021 1345-1353*
- Resilient State Estimation of Cyber-Physical System With Multichannel Transmission Under DoS Attack. *Yuan, H., +, TSMC Nov. 2021 6926-6937*
- Stabilization and Finite-Time Stabilization of Probabilistic Boolean Control Networks. *Wang, L., +, TSMC March 2021 1559-1566*
- Gaussian distribution**
- Dissimilarity Analysis-Based Multimode Modeling for Complex Distributed Parameter Systems. *Wang, Z., +, TSMC May 2021 2789-2797*
- Gaussian noise**
- Linear and Nonlinear Regression-Based Maximum Correntropy Extended Kalman Filtering. *Liu, X., +, TSMC May 2021 3093-3102*
- Minimum Error Entropy Kalman Filter. *Chen, B., +, TSMC Sept. 2021 5819-5829*
- Gaussian processes**
- Neural Networks-Based Fault Tolerant Control of a Robot via Fast Terminal Sliding Mode. *Zhang, S., +, TSMC July 2021 4091-4101*
- Semantic-Aware Informative Path Planning for Efficient Object Search Using Mobile Robot. *Wang, C., +, TSMC Aug. 2021 5230-5243*
- Skill Learning From Human Demonstrations Using Dynamical Regressive Models for Multitask Applications. *Dutta, S., +, TSMC Jan. 2021 659-672*
- Generalization (artificial intelligence)**
- Generalized Variant Support Vector Machine. *Mohammadi, M., +, TSMC May 2021 2798-2809*
- Multitask TSK Fuzzy System Modeling by Jointly Reducing Rules and Consequent Parameters. *Wang, J., +, TSMC July 2021 4078-4090*
- Genetic algorithms**
- A New Fitness Function With Two Rankings for Evolutionary Constrained Multiobjective Optimization. *Ma, Z., +, TSMC Aug. 2021 5005-5016*
- An N -State Markovian Jumping Particle Swarm Optimization Algorithm. *Rahman, I.U., +, TSMC Nov. 2021 6626-6638*
- Solving Many-Objective Optimization Problems via Multistage Evolutionary Search. *Chen, H., +, TSMC June 2021 3552-3564*
- Solving Multimodal Multiobjective Problems Through Zoning Search. *Fan, Q., +, TSMC Aug. 2021 4836-4847*
- Weight-Adapted Convolution Neural Network for Facial Expression Recognition in Human–Robot Interaction. *Wu, M., +, TSMC March 2021 1473-1484*
- Genetics**
- Dissipativity Analysis of Switched Gene Regulatory Networks Actuated by Persistent Dwell-Time Switching Strategy. *Shen, H., +, TSMC Sept. 2021 5535-5546*
- Geometry**
- Asynchronous Fault Detection and Isolation for Markov Jump Systems With Actuator Failures Under Networked Environment. *Long, Y., +, TSMC June 2021 3477-3487*
- Force Sensorless Admittance Control for Teleoperation of Uncertain Robot Manipulator Using Neural Networks. *Yang, C., +, TSMC May 2021 3282-3292*
- Gesture recognition**
- A Novel Multicamera System for High-Speed Touchless Palm Recognition. *Liang, X., +, TSMC March 2021 1534-1548*
- DeSIRE: Deep Signer-Invariant Representations for Sign Language Recognition. *Ferreira, P.M., +, TSMC Sept. 2021 5830-5845*
- Multisensor-Based Navigation and Control of a Mobile Service Robot. *Yuan, W., +, TSMC April 2021 2624-2634*
- Government data processing**
- Effective Quarantine and Recovery Scheme Against Advanced Persistent Threat. *Yang, L., +, TSMC Oct. 2021 5977-5991*
- Gradient methods**
- A Finite-Time Distributed Optimization Algorithm for Economic Dispatch in Smart Grids. *Mao, S., +, TSMC April 2021 2068-2079*
- A Nesterov-Like Gradient Tracking Algorithm for Distributed Optimization Over Directed Networks. *Lu, Q., +, TSMC Oct. 2021 6258-6270*
- Adaptive Estimation of Time-Varying Parameters With Application to Roto-Magnet Plant. *Na, J., +, TSMC Feb. 2021 731-741*
- Adaptive Type-2 FNN-Based Dynamic Sliding Mode Control of DC–DC Boost Converters. *Wang, J., +, TSMC April 2021 2246-2257*
- An Accelerated Distributed Gradient-Based Algorithm for Constrained Optimization With Application to Economic Dispatch in a Large-Scale Power System. *Guo, F., +, TSMC April 2021 2041-2053*
- Convergence of Distributed Accelerated Algorithm Over Unbalanced Directed Networks. *Li, H., +, TSMC Aug. 2021 5153-5164*
- Distributed Algorithm Design for Resource Allocation Problems of Second-Order Multiagent Systems Over Weight-Balanced Digraphs. *Deng, Z., TSMC June 2021 3512-3521*
- Distributed Resource Allocation Over Directed Graphs via Continuous-Time Algorithms. *Zhu, Y., +, TSMC Feb. 2021 1097-1106*
- Gradient Descent Algorithm-Based Adaptive NN Control Design for an Induction Motor. *Yang, X., +, TSMC Feb. 2021 1027-1034*
- Latent Factor-Based Recommenders Relying on Extended Stochastic Gradient Descent Algorithms. *Luo, X., +, TSMC Feb. 2021 916-926*
- Nearly Optimal Integral Sliding-Mode Consensus Control for Multiagent Systems With Disturbances. *Zhang, H., +, TSMC Aug. 2021 4741-4750*
- Random Sleep Scheme-Based Distributed Optimization Algorithm Over Unbalanced Time-Varying Networks. *Li, H., +, TSMC Aug. 2021 5244-5253*
- Graph theory**
- A Finite-Time Distributed Optimization Algorithm for Economic Dispatch in Smart Grids. *Mao, S., +, TSMC April 2021 2068-2079*
- A Hierarchical Event Detection Method Based on Spectral Theory of Multidimensional Matrix for Power System. *Ma, D., +, TSMC April 2021 2173-2186*
- A Local Consensus Index Scheme for Random-Valued Impulse Noise Detection Systems. *Xiao, X., +, TSMC June 2021 3412-3428*
- A Three-Level Hierarchical Graph Model for Conflict Resolution. *He, S., +, TSMC March 2021 1424-1433*
- Admissible Consensus for Homogenous Descriptor Multiagent Systems. *Liu, X., +, TSMC Feb. 2021 965-974*
- Connection of Signed and Unsigned Networks Based on Solving Linear Dynamic Systems. *Meng, D., +, TSMC Aug. 2021 5174-5188*
- Consensus of High-Order Discrete-Time Multiagent Systems With Switching Topology. *Zhang, Y., +, TSMC Feb. 2021 721-730*
- Cooperative Control of Multiple High-Order Agents With Nonidentical Unknown Control Directions Under Fixed and Time-Varying Topologies. *Wang, Q., +, TSMC April 2021 2582-2591*
- Couple-Group Consensus for Cooperative-Competitive Heterogeneous Multiagent Systems: Hybrid Adaptive and Pinning Methods. *Ji, L., +, TSMC Sept. 2021 5367-5376*
- Deep Attributed Network Embedding by Preserving Structure and Attribute Information. *Hong, R., +, TSMC March 2021 1434-1445*
- Device-Free Orientation Detection Based on CSI and Visibility Graph. *Wu, Z., +, TSMC July 2021 4433-4442*
- Distance-Preserving Vector Space Embedding for Consensus Learning. *Nienkotter, A., +, TSMC Feb. 2021 1244-1257*
- Distributed Bipartite Consensus of Linear Multiagent Systems Based on Event-Triggered Output Feedback Control Scheme. *Cai, Y., +, TSMC Nov. 2021 6743-6756*
- Distributed Consensus Tracking of Networked Agent Systems Under Denial-of-Service Attacks. *Wan, Y., +, TSMC Oct. 2021 6183-6196*
- Distributed Optimal Consensus Control for a Class of Uncertain Nonlinear Multiagent Networks With Disturbance Rejection Using Adaptive Technique. *Wang, D., +, TSMC July 2021 4389-4399*
- Distributed Quantized Optimization Design of Continuous-Time Multiagent Systems Over Switching Graphs. *Chen, Z., +, TSMC Nov. 2021 7152-7163*
- Distributed-Observer-Based Nash Equilibrium Seeking Algorithm for Quadratic Games With Nonlinear Dynamics. *Huang, B., +, TSMC Nov. 2021 7260-7268*
- Enhanced Ensemble Clustering via Fast Propagation of Cluster-Wise Similarities. *Huang, D., +, TSMC Jan. 2021 508-520*
- Event-Based Formation Coordinated Control for Multiple Spacecraft Under Communication Constraints. *Hu, Q., +, TSMC May 2021 3168-3179*
- Event-Triggered Model Predictive Control for Multiagent Systems With Communication Constraints. *Li, L., +, TSMC May 2021 3304-3316*

- Event-Triggered Privacy-Preserving Average Consensus for Multiagent Networks With Time Delay: An Output Mask Approach. *Wang, A.*, +, *TSMC July 2021 4520-4531*
- Graph Embedding-Based Dimension Reduction With Extreme Learning Machine. *Yang, L.*, +, *TSMC July 2021 4262-4273*
- Graph Optimization Approach to Range-Based Localization. *Fang, X.*, +, *TSMC Nov. 2021 6830-6841*
- Intelligent Leader-Following Consensus Formation Control Using Recurrent Neural Networks for Small-Size Unmanned Helicopters. *Kuo, C.*, +, *TSMC Feb. 2021 1288-1301*
- Intermittent Control Strategy for Synchronization Analysis of Time-Varying Complex Dynamical Networks. *Wu, Y.*, +, *TSMC May 2021 3251-3262*
- Inverse Engineering Preferences in the Graph Model for Conflict Resolution. *Garcia, A.*, +, *TSMC March 2021 1716-1724*
- Learning Graph Similarity With Large Spectral Gap. *Wu, Z.*, +, *TSMC March 2021 1590-1600*
- Mixed Coalitional Stabilities With Full Participation of Sanctioning Opponents Within the Graph Model for Conflict Resolution. *Zhao, S.*, +, *TSMC June 2021 3911-3925*
- Optimizing Pinning Control of Complex Dynamical Networks Based on Spectral Properties of Grounded Laplacian Matrices. *Liu, H.*, +, *TSMC Feb. 2021 786-796*
- Quantized Decentralized Adaptive Neural Network PI Tracking Control for Uncertain Interconnected Nonlinear Systems With Dynamic Uncertainties. *Sun, H.*, +, *TSMC May 2021 3111-3124*
- Random Sleep Scheme-Based Distributed Optimization Algorithm Over Unbalanced Time-Varying Networks. *Li, H.*, +, *TSMC Aug. 2021 5244-5253*
- Real-Time Taxi-Passenger Matching Using a Differential Evolutionary Fuzzy Controller. *Gong, Y.*, +, *TSMC May 2021 2712-2725*
- Rendezvous of Heterogeneous Multiagent Systems With Nonuniform Time-Varying Information Delays: An Adaptive Approach. *Wang, J.*, +, *TSMC Aug. 2021 4848-4857*
- Semantic-Aware Informative Path Planning for Efficient Object Search Using Mobile Robot. *Wang, C.*, +, *TSMC Aug. 2021 5230-5243*
- Semiglobal Observer-Based Positive Scaled Edge-Consensus of Networked Discrete-Time Systems Under Actuator Saturation. *Sun, Y.*, +, *TSMC July 2021 4543-4554*
- Synchronization of Resilient Complex Networks Under Attacks. *Wang, P.*, +, *TSMC Feb. 2021 1116-1127*
- The Graph Model for Conflict Resolution and Decision Support. *Hipel, K.W.*, +, *TSMC Jan. 2021 131-141*
- Time-Varying Formation for General Linear Multiagent Systems Over Directed Topologies: A Fully Distributed Adaptive Technique. *Zhao, Y.*, +, *TSMC Jan. 2021 532-541*
- Graphical user interfaces**
- Design and Analysis of a Human-Machine Interaction System for Researching Human's Dynamic Emotion. *Sun, X.*, +, *TSMC Oct. 2021 6111-6121*
- Greedy algorithms**
- Distributed Virtual Network Embedding System With Historical Archives and Set-Based Particle Swarm Optimization. *Song, A.*, +, *TSMC Feb. 2021 927-942*
- Group Scheduling With Nonperiodical Maintenance and Deteriorating Effects. *Xu, H.*, +, *TSMC May 2021 2860-2872*
- Grey systems**
- Fuzzy Grey Choquet Integral for Evaluation of Multicriteria Decision Making Problems With Interactive and Qualitative Indices. *Tian, G.*, +, *TSMC March 2021 1855-1868*
- Grippers**
- A Real-Time Robotic Grasping Approach With Oriented Anchor Box. *Zhang, H.*, +, *TSMC May 2021 3014-3025*
- Group decision support systems**
- A Personalized Feedback Mechanism Based on Bounded Confidence Learning to Support Consensus Reaching in Group Decision Making. *Zha, Q.*, +, *TSMC June 2021 3900-3910*
- Gyroscopes**
- Fractional-Order Finite-Time Super-Twisting Sliding Mode Control of Micro Gyroscope Based on Double-Loop Fuzzy Neural Network. *Fei, J.*, +, *TSMC Dec. 2021 7692-7706*
- Serial-Parallel Estimation Model-Based Sliding Mode Control of MEMS Gyroscopes. *Zhang, R.*, +, *TSMC Dec. 2021 7764-7775*
- H**
- H^∞ control**
- Adaptive Control for Three-Phase Power Converters With Disturbance Rejection Performance. *Yin, Y.*, +, *TSMC Feb. 2021 674-685*
- Design of Observer-Based Event-Triggered Fuzzy ISMC for T-S Fuzzy Model and its Application to PMSG. *Mani, P.*, +, *TSMC April 2021 2221-2231*
- Hidden Markov Model Based Fault Detection for Networked Singularly Perturbed Systems. *Wan, X.*, +, *TSMC Oct. 2021 6445-6456*
- High-Precision Attitude Tracking Control of Space Manipulator System Under Multiple Disturbances. *Qiao, J.*, +, *TSMC July 2021 4274-4284*
- Hybrid Disturbance Observer-Based Anti-Disturbance Composite Control With Applications to Mars Landing Mission. *Xu, J.*, +, *TSMC May 2021 2885-2893*
- Robust Model Predictive Iterative Learning Control for Iteration-Varying-Reference Batch Processes. *Liu, X.*, +, *TSMC July 2021 4238-4250*
- Stability and Stabilization for T-S Fuzzy Large-Scale Interconnected Power System With Wind Farm via Sampled-Data Control. *Shanmugam, L.*, +, *TSMC April 2021 2134-2144*
- H_∞ filters**
- H_∞ Filtering for Nonhomogeneous Markovian Jump Repeated Scalar Nonlinear Systems With Multiplicative Noises and Partially Mode-Dependent Characterization. *Hua, M.*, +, *TSMC May 2021 3180-3192*
- Handicapped aids**
- DeSIRE: Deep Signer-Invariant Representations for Sign Language Recognition. *Ferreira, P.M.*, +, *TSMC Sept. 2021 5830-5845*
- On the Utility of Power Spectral Techniques With Feature Selection Techniques for Effective Mental Task Classification in Noninvasive BCI. *Gupta, A.*, +, *TSMC May 2021 3080-3092*
- Vision-Assisted Autonomous Lower-Limb Exoskeleton Robot. *Liu, D.*, +, *TSMC June 2021 3759-3770*
- Handwriting recognition**
- Modified Sparse Representation Classification Framework for Online Writer Identification. *Venugopal, V.*, +, *TSMC Jan. 2021 314-325*
- Handwritten character recognition**
- Modified Sparse Representation Classification Framework for Online Writer Identification. *Venugopal, V.*, +, *TSMC Jan. 2021 314-325*
- Harmonic oscillators**
- Quasi-Synchronization in Heterogeneous Harmonic Oscillators With Continuous and Sampled Coupling. *Wang, Z.*, +, *TSMC Feb. 2021 1267-1277*
- Hazards**
- Crowd Behavior Simulation With Emotional Contagion in Unexpected Multihazard Situations. *Xu, M.*, +, *TSMC March 2021 1567-1581*
- Premature Aircraft Maintenance: A Matter of Cost or Risk?. *Safaei, N.*, *TSMC Feb. 2021 1064-1074*
- Heat transfer**
- Abnormal Source Identification for Parabolic Distributed Parameter Systems. *Feng, Y.*, +, *TSMC Sept. 2021 5698-5707*
- Heating systems**
- Integrated Scheduling of a Dual-Armed Cluster Tool for Maximizing Steady Schedule Patterns. *Kim, W.*, +, *TSMC Dec. 2021 7282-7294*
- Hebbian learning**
- Bidirectional Associative Memories: Unsupervised Hebbian Learning to Bidirectional Backpropagation. *Kosko, B.*, *TSMC Jan. 2021 103-115*
- Hebbian theory**
- Erratum to "Bidirectional Associative Memories: Unsupervised Hebbian Learning to Bidirectional Backpropagation". *Kosko, B.*, *TSMC April 2021 2635*
- Helicopters**
- Adaptive Nonlinear Hierarchical Control for a Rotorcraft Transporting a Cable-Suspended Payload. *Liang, X.*, +, *TSMC July 2021 4171-4182*

Graph Optimization Approach to Range-Based Localization. *Fang, X., +, TSMC Nov. 2021 6830-6841*

Hybrid PD-Fuzzy and PD Controllers for Trajectory Tracking of a Quadrotor Unmanned Aerial Vehicle: Autopilot Designs and Real-Time Flight Tests. *Santoso, F., +, TSMC March 2021 1817-1829*

Intelligent Leader-Following Consensus Formation Control Using Recurrent Neural Networks for Small-Size Unmanned Helicopters. *Kuo, C., +, TSMC Feb. 2021 1288-1301*

Nonlinear Control of Quadrotor for Fault Tolerance: A Total Failure of One Actuator. *Wu, Y., +, TSMC May 2021 2810-2820*

Tracking Flight Control of Quadrotor Based on Disturbance Observer. *Chen, M., +, TSMC March 2021 1414-1423*

Hessian matrices

New Noise-Tolerant Neural Algorithms for Future Dynamic Nonlinear Optimization With Estimation on Hessian Matrix Inversion. *Wei, L., +, TSMC April 2021 2611-2623*

Heterogeneous networks

Output Homogenization and Synchronization of Heterogeneous Nonlinear Multiagent Networks. *Wei, Y., +, TSMC Dec. 2021 7295-7304*

Output Homogenization and Synchronization of Heterogeneous Nonlinear Multiagent Networks. *Wei, Y., +, TSMC Dec. 2021 7295-7304*

Heuristic algorithms

Distributed Tracking for Discrete-Time Multiagent Networks via an Ultra-fast Control Protocol. *Zhang, W., +, TSMC Dec. 2021 7542-7552*

Enhanced Branch-and-Bound Framework for a Class of Sequencing Problems. *Zhang, Z., +, TSMC May 2021 2726-2736*

Event-Triggered Optimal Control for Discrete-Time Switched Nonlinear Systems With Constrained Control Input. *Han, X., +, TSMC Dec. 2021 7850-7859*

Minimum Dominating Set of Multiplex Networks: Definition, Application, and Identification. *Zhao, D., +, TSMC Dec. 2021 7823-7837*

Reinforcement Learning Control of a Flexible Two-Link Manipulator: An Experimental Investigation. *He, W., +, TSMC Dec. 2021 7326-7336*

Solving Optimization Problems Through Fully Convolutional Networks: An Application to the Traveling Salesman Problem. *Ling, Z., +, TSMC Dec. 2021 7475-7485*

Two-Echelon Routing Problem for Parcel Delivery by Cooperated Truck and Drone. *Liu, Y., +, TSMC Dec. 2021 7450-7465*

Heuristic programming

Multi-Kernel Online Reinforcement Learning for Path Tracking Control of Intelligent Vehicles. *Liu, J., +, TSMC Nov. 2021 6962-6975*

Hidden Markov models

Asynchronous Output Feedback Control for a Class of Conic-Type Nonlinear Hidden Markov Jump Systems Within a Finite-Time Interval. *Cheng, P., +, TSMC Dec. 2021 7644-7651*

Dissipativity-Based Asynchronous Control for 2-D Markov Jump Systems in Continuous-Time Domain. *Shen, Y., +, TSMC Sept. 2021 5349-5356*

Extended Dissipativity-Based Control for Hidden Markov Jump Singularly Perturbed Systems Subject to General Probabilities. *Li, F., +, TSMC Sept. 2021 5752-5761*

Hidden Markov Model Based Fault Detection for Networked Singularly Perturbed Systems. *Wan, X., +, TSMC Oct. 2021 6445-6456*

HMM-Based Asynchronous Controller Design of Markovian Jumping Lur'e Systems Within a Finite-Time Interval. *Nie, R., +, TSMC Nov. 2021 6885-6891*

Stability Analysis of Complex Network Control System With Dynamical Topology and Delays. *Li, M., +, TSMC Nov. 2021 7228-7237*

Hierarchical systems

Optimal Load Frequency Control for Networked Power Systems Based on Distributed Economic MPC. *Jia, Y., +, TSMC April 2021 2123-2133*

High level synthesis

On Finite-Duration Convergent Attracting Laws. *Sun, M., +, TSMC Aug. 2021 5017-5029*

High-speed rail transportation

Distributed Velocity and Input Constrained Tracking Control of High-Speed Train Systems. *Lin, P., +, TSMC Dec. 2021 7882-7888*

Hough transforms

Multialgorithm Fusion Image Processing for High Speed Railway Dropper Failure-Defect Detection. *Tan, P., +, TSMC July 2021 4466-4478*

Human computer interaction

Design and Analysis of a Human-Machine Interaction System for Researching Human's Dynamic Emotion. *Sun, X., +, TSMC Oct. 2021 6111-6121*

Visual Human-Computer Interactions for Intelligent Vehicles and Intelligent Transportation Systems: The State of the Art and Future Directions. *Wang, X., +, TSMC Jan. 2021 253-265*

Human resource management

Managing Online Channel and Optimization in Supply Chain Systems With Different Channel Leaderships. *Xu, L., +, TSMC Nov. 2021 7177-7190*

Human-robot interaction

Design and Analysis of a Human-Machine Interaction System for Researching Human's Dynamic Emotion. *Sun, X., +, TSMC Oct. 2021 6111-6121*

Survey of Human-Robot Collaboration in Industrial Settings: Awareness, Intelligence, and Compliance. *Kumar, S., +, TSMC Jan. 2021 280-297*

Humanoid robots

Foot Placement Compensator Design for Humanoid Walking Based on Discrete Control Lyapunov Function. *Liu, C., +, TSMC April 2021 2332-2341*

Robust Stabilization of High-Order Nonlinear Systems With Unknown Sensitivities and Applications in Humanoid Robot Manipulation. *Sun, Z., +, TSMC July 2021 4409-4416*

Hydrodynamics

Bleeding Simulation With Improved Visual Effects for Surgical Simulation Systems. *Shi, W., +, TSMC Feb. 2021 686-695*

Design and Control of a Two-Motor-Actuated Tuna-Inspired Robot System. *Du, S., +, TSMC Aug. 2021 4670-4680*

Trajectory Tracking Control of Autonomous Underwater Vehicle With Unknown Parameters and External Disturbances. *Yang, X., +, TSMC Feb. 2021 1054-1063*

I

Identification

Adaptive Tracking Control of FIR Systems Under Binary-Valued Observations and Recursive Projection Identification. *Wang, T., +, TSMC Sept. 2021 5289-5299*

Neural Modeling With Guaranteed Input-Output Probability Distributions. *Yu, W., +, TSMC Nov. 2021 6660-6668*

Robust Multimodel Identification of LPV Systems With Missing Observations Based on t-Distribution. *Liu, X., +, TSMC Aug. 2021 5254-5260*

Image classification

A Real-Time Robotic Grasping Approach With Oriented Anchor Box. *Zhang, H., +, TSMC May 2021 3014-3025*

A Transfer Classification Method for Heterogeneous Data Based on Evidence Theory. *Liu, Z., +, TSMC Aug. 2021 5129-5141*

Efficient Body Motion Quantification and Similarity Evaluation Using 3-D Joints Skeleton Coordinates. *Aouaidjia, K., +, TSMC May 2021 2774-2788*

Global and Local-Contrast Guides Content-Aware Fusion for RGB-D Saliency Prediction. *Zhou, W., +, TSMC June 2021 3641-3649*

Modified Sparse Representation Classification Framework for Online Writer Identification. *Venugopal, V., +, TSMC Jan. 2021 314-325*

Multilabel Image Classification via Feature/Label Co-Projection. *Wen, S., +, TSMC Nov. 2021 7250-7259*

Multilevel Image-Enhanced Sentence Representation Net for Natural Language Inference. *Zhang, K., +, TSMC June 2021 3781-3795*

Multiscale Multipath Ensemble Convolutional Neural Network. *Wang, X., +, TSMC Sept. 2021 5918-5928*

Zero-Shot Learning Based on Multitask Extended Attribute Groups. *Wang, X., +, TSMC March 2021 2003-2011*

Image color analysis

A Novel Multicamera System for High-Speed Touchless Palm Recognition. *Liang, X., +, TSMC March 2021 1534-1548*

Adaptive Pulsatile Plane for Robust Noncontact Heart Rate Monitoring. *Tran, Q., +, TSMC Sept. 2021 5587-5599*

Global and Local-Contrast Guides Content-Aware Fusion for RGB-D Saliency Prediction. *Zhou, W., +, TSMC June 2021 3641-3649*

Spatial Context Energy Curve-Based Multilevel 3-D Otsu Algorithm for Image Segmentation. *Bhandari, A.K., +, TSMC May 2021 2760-2773*

Image denoising

A Local Consensus Index Scheme for Random-Valued Impulse Noise Detection Systems. *Xiao, X., +, TSMC June 2021 3412-3428*

Image edge detection

H_∞ Control for Observer-Based Non-Negative Scaled Edge-Consensus of Networked Systems. *Sun, Y., +, TSMC Dec. 2021 7801-7812*

Image filtering

A Local Consensus Index Scheme for Random-Valued Impulse Noise Detection Systems. *Xiao, X., +, TSMC June 2021 3412-3428*

Nonlinear Pose Filters on the Special Euclidean Group SE(3) With Guaranteed Transient and Steady-State Performance. *Hashim, H.A., +, TSMC May 2021 2949-2962*

Image fusion

A Novel Multicamera System for High-Speed Touchless Palm Recognition. *Liang, X., +, TSMC March 2021 1534-1548*

A Strictly Predefined-Time Convergent Neural Solution to Equality- and Inequality-Constrained Time-Variant Quadratic Programming. *Li, W., +, TSMC July 2021 4028-4039*

Fusing Skeleton Recognition With Face-TLD for Human Following of Mobile Service Robots. *Yuan, J., +, TSMC May 2021 2963-2979*

Global and Local-Contrast Guides Content-Aware Fusion for RGB-D Saliency Prediction. *Zhou, W., +, TSMC June 2021 3641-3649*

Modular Lightweight Network for Road Object Detection Using a Feature Fusion Approach. *Liu, Y., +, TSMC Aug. 2021 4716-4728*

Multialgorithm Fusion Image Processing for High Speed Railway Dropper Failure-Defect Detection. *Tan, P., +, TSMC July 2021 4466-4478*

Multisensor-Based Navigation and Control of a Mobile Service Robot. *Yuan, W., +, TSMC April 2021 2624-2634*

Image matching

An Efficient Method to Recover Relative Pose for Vehicle-Mounted Cameras Under Planar Motion. *Zhang, X., +, TSMC Feb. 2021 1138-1148*

Fast Pore Comparison for High Resolution Fingerprint Images Based on Multiple Co-Occurrence Descriptors and Local Topology Similarities. *Xu, Y., +, TSMC Sept. 2021 5721-5731*

Robust 3-D Object Recognition via View-Specific Constraint. *Liu, H., +, TSMC Nov. 2021 7109-7119*

Image motion analysis

Adaptive Pulsatile Plane for Robust Noncontact Heart Rate Monitoring. *Tran, Q., +, TSMC Sept. 2021 5587-5599*

Efficient Body Motion Quantification and Similarity Evaluation Using 3-D Joints Skeleton Coordinates. *Aouaidjia, K., +, TSMC May 2021 2774-2788*

Fusing Skeleton Recognition With Face-TLD for Human Following of Mobile Service Robots. *Yuan, J., +, TSMC May 2021 2963-2979*

Image recognition

A Novel Approach to Image-Sequence-Based Mobile Robot Place Recognition. *Yuan, J., +, TSMC Sept. 2021 5377-5391*

A Novel Multicamera System for High-Speed Touchless Palm Recognition. *Liang, X., +, TSMC March 2021 1534-1548*

Multiscale Multipath Ensemble Convolutional Neural Network. *Wang, X., +, TSMC Sept. 2021 5918-5928*

Image reconstruction

Discriminative Face Hallucination via Locality-Constrained and Category Embedding Representation. *Liu, L., +, TSMC Dec. 2021 7314-7325*

Nonlinear Pose Filters on the Special Euclidean Group SE(3) With Guaranteed Transient and Steady-State Performance. *Hashim, H.A., +, TSMC May 2021 2949-2962*

Image representation

DeSIRE: Deep Signer-Invariant Representations for Sign Language Recognition. *Ferreira, P.M., +, TSMC Sept. 2021 5830-5845*

Efficient Body Motion Quantification and Similarity Evaluation Using 3-D Joints Skeleton Coordinates. *Aouaidjia, K., +, TSMC May 2021 2774-2788*

Global and Local-Contrast Guides Content-Aware Fusion for RGB-D Saliency Prediction. *Zhou, W., +, TSMC June 2021 3641-3649*

Modified Sparse Representation Classification Framework for Online Writer Identification. *Venugopal, V., +, TSMC Jan. 2021 314-325*

Multiscale Multipath Ensemble Convolutional Neural Network. *Wang, X., +, TSMC Sept. 2021 5918-5928*

Transformation-Aware Similarity Measurement for Image Retargeting Quality Assessment via Bidirectional Rewarping. *Shao, F., +, TSMC May 2021 3053-3067*

Image resolution

Solving Optimization Problems Through Fully Convolutional Networks: An Application to the Traveling Salesman Problem. *Ling, Z., +, TSMC Dec. 2021 7475-7485*

Spatial Context Energy Curve-Based Multilevel 3-D Otsu Algorithm for Image Segmentation. *Bhandari, A.K., +, TSMC May 2021 2760-2773*

Image restoration

Sequential Restorations of Complex Networks After Cascading Failures. *Huang, Y., +, TSMC Jan. 2021 400-411*

Image segmentation

Adaptive Pulsatile Plane for Robust Noncontact Heart Rate Monitoring. *Tran, Q., +, TSMC Sept. 2021 5587-5599*

Integrating Structural Symmetry and Local Homoplasmy Information in Intuitionistic Fuzzy Clustering for Infrared Pedestrian Segmentation. *Jin, D., +, TSMC July 2021 4365-4378*

Learning Graph Similarity With Large Spectral Gap. *Wu, Z., +, TSMC March 2021 1590-1600*

Quality Inspection Based on Quadrangular Object Detection for Deep Aperture Component. *Zhang, J., +, TSMC Oct. 2021 5938-5948*

Spatial Context Energy Curve-Based Multilevel 3-D Otsu Algorithm for Image Segmentation. *Bhandari, A.K., +, TSMC May 2021 2760-2773*

Image sensors

Adaptive Pulsatile Plane for Robust Noncontact Heart Rate Monitoring. *Tran, Q., +, TSMC Sept. 2021 5587-5599*

Image sequences

A Novel Approach to Image-Sequence-Based Mobile Robot Place Recognition. *Yuan, J., +, TSMC Sept. 2021 5377-5391*

Efficient Body Motion Quantification and Similarity Evaluation Using 3-D Joints Skeleton Coordinates. *Aouaidjia, K., +, TSMC May 2021 2774-2788*

Image texture

A Local Consensus Index Scheme for Random-Valued Impulse Noise Detection Systems. *Xiao, X., +, TSMC June 2021 3412-3428*

Transformation-Aware Similarity Measurement for Image Retargeting Quality Assessment via Bidirectional Rewarping. *Shao, F., +, TSMC May 2021 3053-3067*

Impulse noise

A Local Consensus Index Scheme for Random-Valued Impulse Noise Detection Systems. *Xiao, X., +, TSMC June 2021 3412-3428*

Effects of Outliers on the Maximum Correntropy Estimation: A Robustness Analysis. *Chen, B., +, TSMC June 2021 4007-4012*

Indicators

Indicator-Based Constrained Multiobjective Evolutionary Algorithms. *Liu, Z., +, TSMC Sept. 2021 5414-5426*

Indoor navigation

An Indoor Positioning Algorithm Based on Fingerprint and Mobility Prediction in RSS Fluctuation-Prone WLANs. *Lin, C., +, TSMC May 2021 2926-2936*

Indoor radio

An Indoor Positioning Algorithm Based on Fingerprint and Mobility Prediction in RSS Fluctuation-Prone WLANs. *Lin, C., +, TSMC May 2021 2926-2936*

Device-Free Orientation Detection Based on CSI and Visibility Graph. *Wu, Z., +, TSMC July 2021 4433-4442*

Industrial control

Robust Multimodel Identification of LPV Systems With Missing Observations Based on t-Distribution. *Liu, X., +, TSMC Aug. 2021 5254-5260*

Industrial plants

An Auto-Adjustable and Time-Consistent Model for Determining Coagulant Dosage Based on Operators' Experience. *Liu, Y., +, TSMC Sept. 2021 5614-5625*

Special Issue on Recent Advances for Intelligence in Power and Energy Systems. *Kumar, R., +, TSMC April 2021 2036-2040*

Industrial robots

Closing-Down Optimization for Single-Arm Cluster Tools Subject to Wafer Residency Time Constraints. *Qiao, Y., +, TSMC Nov. 2021 6792-6807*

Survey of Human–Robot Collaboration in Industrial Settings: Awareness, Intelligence, and Compliance. *Kumar, S., +, TSMC Jan. 2021 280-297*

Inertial systems

Nonlinear Pose Filters on the Special Euclidean Group SE(3) With Guaranteed Transient and Steady-State Performance. *Hashim, H.A., +, TSMC May 2021 2949-2962*

Inference mechanisms

A Distance Measure for Intuitionistic Fuzzy Sets and Its Application to Pattern Classification Problems. *Xiao, F., TSMC June 2021 3980-3992*

A Micro-Extended Belief Rule-Based System for Big Data Multiclass Classification Problems. *Yang, L., +, TSMC Jan. 2021 420-440*

KNN-BLOCK DBSCAN: Fast Clustering for Large-Scale Data. *Chen, Y., +, TSMC June 2021 3939-3953*

Perturbation Analysis of Evidential Reasoning Rule. *Tang, S., +, TSMC Aug. 2021 4895-4910*

Infinite horizon

Multiobjective Dynamic Optimization of Cooperative Difference Games in Infinite Horizon. *Peng, C., +, TSMC Nov. 2021 6669-6680*

Optimal Control and Stabilization for Networked Systems With Input Delay and Markovian Packet Losses. *Li, H., +, TSMC July 2021 4453-4465*

Information analysis

Systems Science and Engineering Research in the Context of Systems, Man, and Cybernetics: Recollection, Trends, and Future Directions. *Tunstel, E., +, TSMC Jan. 2021 5-21*

Information filtering

A Deep Latent Factor Model for High-Dimensional and Sparse Matrices in Recommender Systems. *Wu, D., +, TSMC July 2021 4285-4296*

Information processing

Scaled Tracking Consensus in Discrete-Time Second-Order Multiagent Systems With Random Packet Dropouts. *Shi, L., +, TSMC Dec. 2021 7745-7751*

Information retrieval systems

Distributed Virtual Network Embedding System With Historical Archives and Set-Based Particle Swarm Optimization. *Song, A., +, TSMC Feb. 2021 927-942*

Information technology

Blockchain-Secured Smart Manufacturing in Industry 4.0: A Survey. *Leng, J., +, TSMC Jan. 2021 237-252*

Infrared imaging

Integrating Structural Symmetry and Local Homoplasmy Information in Intuitionistic Fuzzy Clustering for Infrared Pedestrian Segmentation. *Jin, D., +, TSMC July 2021 4365-4378*

Injection molding

Iterative Learning Control for Multiphase Batch Processes With Asynchronous Switching. *Wang, L., +, TSMC April 2021 2536-2549*

Injuries

Vision-Assisted Autonomous Lower-Limb Exoskeleton Robot. *Liu, D., +, TSMC June 2021 3759-3770*

Inspection

A Heterogeneous Data Analytics Framework for RFID-Enabled Factories. *Zhong, R.Y., +, TSMC Sept. 2021 5567-5576*

Integer programming

Canonical Duality Theory and Algorithm for Solving Bilevel Knapsack Problems With Applications. *Gao, D.Y., TSMC Feb. 2021 893-904*

Decision on Maximal Permissiveness of Linear Constraints via Structural Analysis of a Subclass of Petri Nets. *Chen, H., +, TSMC July 2021 4347-4358*

Optimal Switching Attacks and Countermeasures in Cyber-Physical Systems. *Wu, G., +, TSMC Aug. 2021 4825-4835*

Resource Utilization-Aware Collaborative Optimization of IaaS Cloud Service Composition for Data-Intensive Applications. *Ma, H., +, TSMC Feb. 2021 1322-1333*

Integral equations

Fuzzy Grey Choquet Integral for Evaluation of Multicriteria Decision Making Problems With Interactive and Qualitative Indices. *Tian, G., +, TSMC March 2021 1855-1868*

Intelligent control

A Survey on Intelligent Control for Multiagent Systems. *Shi, P., +, TSMC Jan. 2021 161-175*

Adaptive Dynamic Programming for Control: A Survey and Recent Advances. *Liu, D., +, TSMC Jan. 2021 142-160*

Adaptive Intelligent Control for Input and Output Constrained High-Order Uncertain Nonlinear Systems. *Sun, W., +, TSMC Sept. 2021 5577-5586*

Data-Driven Pareto-DE-Based Intelligent Optimal Operational Control for Stochastic Processes. *Yin, L., +, TSMC July 2021 4443-4452*

Intelligent Controller for Energy Storage System in Grid-Connected Microgrid. *Teo, T.T., +, TSMC Jan. 2021 650-658*

Intelligent Optimal Control System With Flexible Objective Functions and Its Applications in Wastewater Treatment Process. *Han, H., +, TSMC June 2021 3464-3476*

Intelligent robots

Design and Analysis of a Human–Machine Interaction System for Researching Human’s Dynamic Emotion. *Sun, X., +, TSMC Oct. 2021 6111-6121*

Intelligent sensors

A Heterogeneous Data Analytics Framework for RFID-Enabled Factories. *Zhong, R.Y., +, TSMC Sept. 2021 5567-5576*

Intelligent transportation systems

Distributed Secure Platoon Control of Connected Vehicles Subject to DoS Attack: Theory and Application. *Zhang, D., +, TSMC Nov. 2021 7269-7278*

Visual Human–Computer Interactions for Intelligent Vehicles and Intelligent Transportation Systems: The State of the Art and Future Directions. *Wang, X., +, TSMC Jan. 2021 253-265*

Interactive systems

Design and Analysis of a Human–Machine Interaction System for Researching Human’s Dynamic Emotion. *Sun, X., +, TSMC Oct. 2021 6111-6121*

Interconnected systems

Adaptive Fixed-Time Control of Error-Constrained Pure-Feedback Interconnected Nonlinear Systems. *Zhou, Q., +, TSMC Oct. 2021 6369-6380*

Annular Domain Finite-Time Connective Control for Large-Scale Systems With Expanding Construction. *Liu, Y., +, TSMC Oct. 2021 6159-6169*

Decentralized Event-Triggered Tracking of a Class of Uncertain Interconnected Nonlinear Systems Using Minimal Function Approximators. *Choi, Y.H., +, TSMC March 2021 1766-1778*

Distributed Control of Networked Nonlinear Systems via Interconnected Takagi–Sugeno Fuzzy Systems With Nonlinear Consequent. *Araujo, R.F., +, TSMC Aug. 2021 4858-4867*

Echo State Network-Based Decentralized Control of Continuous-Time Nonlinear Large-Scale Interconnected Systems. *Zhang, H., +, TSMC Oct. 2021 6293-6303*

Event-Triggered Security Output Feedback Control for Networked Interconnected Systems Subject to Cyber-Attacks. *Gu, Z., +, TSMC Oct. 2021 6197-6206*

Fault-Tolerant Control of Multilayer Interconnected Nonlinear Systems: An Inclusion Principle Approach. *Xu, Y., +, TSMC April 2021 2403-2414*

Quantized Decentralized Adaptive Neural Network PI Tracking Control for Uncertain Interconnected Nonlinear Systems With Dynamic Uncertainties. *Sun, H., +, TSMC May 2021 3111-3124*

Interference

Optimal SINR-Based DoS Attack Scheduling for Remote State Estimation via Adaptive Dynamic Programming Approach. *Liu, R., +, TSMC Dec. 2021 7622-7632*

Internet

Discrete-Time Sliding-Mode Controllers for MPTCP Networks. *Ignaciuk, P., +, TSMC Oct. 2021 6029-6039*

Range-Based Reactive Deployment of Autonomous Drones for Optimal Coverage in Disaster Areas. *Savkin, A.V., +, TSMC July 2021 4606-4610*

Sequential Restorations of Complex Networks After Cascading Failures. *Huang, Y., +, TSMC Jan. 2021 400-411*

Synchronization of Resilient Complex Networks Under Attacks. *Wang, P., +, TSMC Feb. 2021 1116-1127*

Internet of Things

A Heterogeneous Data Analytics Framework for RFID-Enabled Factories. *Zhong, R.Y., +, TSMC Sept. 2021 5567-5576*

Equipment Health Assessment Based on Improved Incremental Support Vector Data Description. *Zhang, L., +, TSMC May 2021 3205-3216*

Internet of Things as System of Systems: A Review of Methodologies, Frameworks, Platforms, and Tools. *Fortino, G., +, TSMC Jan. 2021 223-236*

Time-Efficient Indoor Navigation and Evacuation With Fastest Path Planning Based on Internet of Things Technologies. *Chen, L., +, TSMC May 2021 3125-3135*

Interpolation

Adaptive Asymptotic Tracking for a Class of Uncertain Switched Positive Compartmental Models With Application to Anesthesia. *Ly, M., +, TSMC Aug. 2021 4936-4942*

Input–Output Finite-Time Reliable Static Output Control of Time-Varying System With Input Delay. *Chen, M., +, TSMC Feb. 2021 1334-1344*

Time-Optimal Point Stabilization Control for WIP Vehicles Using Quasi-Convex Optimization and B-Spline Adaptive Interpolation Techniques. *Ning, Y., +, TSMC May 2021 3293-3303*

Invasive software

A Lightweight On-Device Detection Method for Android Malware. *Yuan, W., +, TSMC Sept. 2021 5600-5611*

Effective Quarantine and Recovery Scheme Against Advanced Persistent Threat. *Yang, L., +, TSMC Oct. 2021 5977-5991*

Inventory management

Mobile-App-Online-Website Dual Channel Strategies: Privacy Concerns, E-Payment Convenience, Channel Relationship, and Coordination. *Choi, T., TSMC Nov. 2021 7008-7016*

Inverse problems

Abnormal Source Identification for Parabolic Distributed Parameter Systems. *Feng, Y., +, TSMC Sept. 2021 5698-5707*

Fuzzy Adaptive Tracking Control for State Constraint Switched Stochastic Nonlinear Systems With Unstable Inverse Dynamics. *Wu, W., +, TSMC Sept. 2021 5522-5534*

Inverters

Stability-Oriented Droop Coefficients Region Identification for Inverters Within Weak Grid: An Impedance-Based Approach. *Wang, R., +, TSMC April 2021 2258-2268*

Investments

Novel Fast Networking Approaches Mining Underlying Structures From Investment Big Data. *Yang, L., +, TSMC Oct. 2021 6319-6329*

Iterative algorithms

A Hybrid Sliding Mode Control Scheme of Markovian Jump Systems via Transition Rates Optimal Design. *Cao, Z., +, TSMC Dec. 2021 7752-7763*

Iterative learning control

Adaptive Iterative Learning Control for High-Speed Train: A Multi-Agent Approach. *Huang, D., +, TSMC July 2021 4067-4077*

Auxiliary Predictive Compensation-Based ILC for Variable Pass Lengths. *Lin, N., +, TSMC July 2021 4048-4056*

Data-Driven Output-Feedback LQ Secure Control for Unknown Cyber-Physical Systems Against Sparse Actuator Attacks. *Shen, X., +, TSMC Sept. 2021 5708-5720*

Event-Triggered Iterative Learning Containment Control of Model-Free Multiagent Systems. *Hua, C., +, TSMC Dec. 2021 7719-7726*

Extended State Observer-Based Data-Driven Iterative Learning Control for Permanent Magnet Linear Motor With Initial Shifts and Disturbances. *Hui, Y., +, TSMC March 2021 1881-1891*

High-Precision Attitude Tracking Control of Space Manipulator System Under Multiple Disturbances. *Qiao, J., +, TSMC July 2021 4274-4284*

Iterative Learning Control for Multiphase Batch Processes With Asynchronous Switching. *Wang, L., +, TSMC April 2021 2536-2549*

RBFNN-Based Adaptive Iterative Learning Fault-Tolerant Control for Subway Trains With Actuator Faults and Speed Constraint. *Liu, G., +, TSMC Sept. 2021 5785-5799*

Robust Model Predictive Iterative Learning Control for Iteration-Varying-Reference Batch Processes. *Liu, X., +, TSMC July 2021 4238-4250*

Iterative methods

A Control-Theoretic Study on Iterative Solution to Control Allocation for Over-Actuated Aircraft. *Cui, L., +, TSMC June 2021 3429-3439*

Adaptive Iterative Learning Control for High-Speed Train: A Multi-Agent Approach. *Huang, D., +, TSMC July 2021 4067-4077*

Curved Path Following for Unmanned Surface Vehicles With Heading Amendment. *Qu, Y., +, TSMC July 2021 4183-4192*

Distributed Algorithms for Average Consensus of Input Data With Fast Convergence. *Xie, K., +, TSMC May 2021 2653-2664*

Effect of Asynchronous Communications on Stationary Solutions for Discrete-Time Multiagent Systems. *Lee, K., TSMC June 2021 3450-3463*

Efficient Batch-Mode Reinforcement Learning Using Extreme Learning Machines. *Liu, J., +, TSMC June 2021 3664-3677*

Estimating Minimal Domains of Attraction for Uncertain Nonlinear Systems. *Wang, S., +, TSMC Dec. 2021 7776-7787*

Forward–Backward Smoothers With Finite Impulse Response Structure. *Vicente, A., +, TSMC Feb. 2021 765-774*

Fully Distributed Self-Triggered Control for Second-Order Consensus of Multiagent Systems. *Xu, W., +, TSMC June 2021 3541-3551*

Global Consensus of Positive Edge System With Sector Input Nonlinearities. *Wu, H., +, TSMC July 2021 4057-4066*

Group Scheduling With Nonperiodical Maintenance and Deteriorating Effects. *Xu, H., +, TSMC May 2021 2860-2872*

High-Order Internal Model-Based Iterative Learning Control for 2-D Linear FMMI Systems With Iteration-Varying Trajectory Tracking. *Wan, K., +, TSMC March 2021 1462-1472*

Linear and Nonlinear Regression-Based Maximum Correntropy Extended Kalman Filtering. *Liu, X., +, TSMC May 2021 3093-3102*

Optimal Output Synchronization Control of a Class of Complex Dynamical Networks With Partially Unknown System Dynamics. *Wang, N., +, TSMC Feb. 2021 822-832*

Policy-Iteration-Based Learning for Nonlinear Player Game Systems With Constrained Inputs. *Mu, C., +, TSMC Oct. 2021 6488-6502*

Quasi-Synchronization for Periodic Neural Networks With Asynchronous Target and Constrained Information. *Xu, Y., +, TSMC July 2021 4379-4388*

Random Sleep Scheme-Based Distributed Optimization Algorithm Over Unbalanced Time-Varying Networks. *Li, H., +, TSMC Aug. 2021 5244-5253*

Robust Iterative Learning Control of 2-D Linear Discrete FMMII Systems Subject to Iteration-Dependent Uncertainties. *Wan, K., +, TSMC Oct. 2021 5949-5961*

Robust Tracking of Nonrepetitive Learning Control Systems With Iteration-Dependent References. *Meng, D., +, TSMC Feb. 2021 842-852*

Sequential Restorations of Complex Networks After Cascading Failures. *Huang, Y., +, TSMC Jan. 2021 400-411*

Two-Dimensional Iterative Learning Model Predictive Control for Batch Processes: A New State Space Model Compensation Approach. *Zhang, R., +, TSMC Feb. 2021 833-841*

J

Jamming

Resilient State Estimation of Cyber-Physical System With Multichannel Transmission Under DoS Attack. *Yuan, H., +, TSMC Nov. 2021 6926-6937*

Job shop scheduling

Enhanced Branch-and-Bound Framework for a Class of Sequencing Problems. *Zhang, Z., +, TSMC May 2021 2726-2736*

K

Kalman filters

Distributed Kalman Filter for Multitarget Tracking Systems With Coupled Measurements. *Li, W., +, TSMC Oct. 2021 6599-6604*

Event-Based Distributed Adaptive Kalman Filtering With Unknown Covariance of Process Noises. *Mao, J., +, TSMC Oct. 2021 6170-6182*

Forward–Backward Smoothers With Finite Impulse Response Structure. *Vicente, A., +, TSMC Feb. 2021 765-774*

Linear and Nonlinear Regression-Based Maximum Correntropy Extended Kalman Filtering. *Liu, X., +, TSMC May 2021 3093-3102*

Minimum Error Entropy Kalman Filter. *Chen, B., +, TSMC Sept. 2021 5819-5829*

Nonlinear Pose Filters on the Special Euclidean Group SE(3) With Guaranteed Transient and Steady-State Performance. *Hashim, H.A.*, +, *TSMC May 2021 2949-2962*

Knapsack problems

Canonical Duality Theory and Algorithm for Solving Bilevel Knapsack Problems With Applications. *Gao, D.Y.*, *TSMC Feb. 2021 893-904*

Knowledge based systems

A Micro-Extended Belief Rule-Based System for Big Data Multiclass Classification Problems. *Yang, L.*, +, *TSMC Jan. 2021 420-440*

Concurrent Processing Cluster Design to Empower Simultaneous Prediction for Hundreds of Vessels' Trajectories in Near Real-Time. *Xiao, Z.*, +, *TSMC March 2021 1830-1843*

Pythagorean Fuzzy Petri Nets for Knowledge Representation and Reasoning in Large Group Context. *Liu, H.*, +, *TSMC Aug. 2021 5261-5271*

Knowledge discovery

Promotion of Answer Value Measurement With Domain Effects in Community Question Answering Systems. *Jin, B.*, +, *TSMC May 2021 3068-3079*

Knowledge engineering

Minimum Dominating Set of Multiplex Networks: Definition, Application, and Identification. *Zhao, D.*, +, *TSMC Dec. 2021 7823-7837*

Knowledge representation

Pythagorean Fuzzy Petri Nets for Knowledge Representation and Reasoning in Large Group Context. *Liu, H.*, +, *TSMC Aug. 2021 5261-5271*

L

Land vehicles

Two-Echelon Routing Problem for Parcel Delivery by Cooperated Truck and Drone. *Liu, Y.*, +, *TSMC Dec. 2021 7450-7465*

Laplace equations

A Local Consensus Index Scheme for Random-Valued Impulse Noise Detection Systems. *Xiao, X.*, +, *TSMC June 2021 3412-3428*

Distributed Consensus Control of Linear Multiagent Systems With Adaptive Nonlinear Couplings. *Wei, B.*, +, *TSMC Feb. 2021 1365-1370*

Robust Global Coordination of Networked Systems With Input Saturation and External Disturbances. *Wang, X.*, +, *TSMC Dec. 2021 7788-7800*

Laplace transforms

Finite-Time Synchronization of Memristive Neural Networks With Fractional-Order. *Yang, S.*, +, *TSMC June 2021 3739-3750*

Necessary and Sufficient Conditions for Consensus in Fractional-Order Multiagent Systems via Sampled Data Over Directed Graph. *Su, H.*, +, *TSMC April 2021 2501-2511*

Large-scale systems

Adaptive Dynamic Programming for Control: A Survey and Recent Advances. *Liu, D.*, +, *TSMC Jan. 2021 142-160*

Annular Domain Finite-Time Connective Control for Large-Scale Systems With Expanding Construction. *Liu, Y.*, +, *TSMC Oct. 2021 6159-6169*

Consensus of Multiagent Systems With Time-Varying Input Delay and Relative State Saturation Constraints. *Chu, H.*, +, *TSMC Nov. 2021 6938-6944*

Coordination and Control of Complex Network Systems With Switching Topologies: A Survey. *Wen, G.*, +, *TSMC Oct. 2021 6342-6357*

Event-Triggered Distributed H_∞ Constrained Control of Physically Interconnected Large-Scale Partially Unknown Strict-Feedback Systems. *Tan, L.N.*, *TSMC April 2021 2444-2456*

Neural-Based Decentralized Adaptive Finite-Time Control for Nonlinear Large-Scale Systems With Time-Varying Output Constraints. *Du, P.*, +, *TSMC May 2021 3136-3147*

Secure Conflicts Avoidance in Multidomain Environments: A Distributed Approach. *Yang, B.*, +, *TSMC Sept. 2021 5478-5489*

Learning (artificial intelligence)

A Binary Particle Swarm Optimizer With Priority Planning and Hierarchical Learning for Networked Epidemic Control. *Zhao, T.*, +, *TSMC Aug. 2021 5090-5104*

A Construction of Robust Representations for Small Data Sets Using Broad Learning System. *Tang, H.*, +, *TSMC Oct. 2021 6074-6084*

A Deep Latent Factor Model for High-Dimensional and Sparse Matrices in Recommender Systems. *Wu, D.*, +, *TSMC July 2021 4285-4296*

A Fast Non-Negative Latent Factor Model Based on Generalized Momentum Method. *Luo, X.*, +, *TSMC Jan. 2021 610-620*

A Lightweight On-Device Detection Method for Android Malware. *Yuan, W.*, +, *TSMC Sept. 2021 5600-5611*

A Micro-Extended Belief Rule-Based System for Big Data Multiclass Classification Problems. *Yang, L.*, +, *TSMC Jan. 2021 420-440*

A Parallel Social Spider Optimization Algorithm Based on Emotional Learning. *Lai, Z.*, +, *TSMC Feb. 2021 797-808*

A Personalized Feedback Mechanism Based on Bounded Confidence Learning to Support Consensus Reaching in Group Decision Making. *Zha, Q.*, +, *TSMC June 2021 3900-3910*

A Transfer Classification Method for Heterogeneous Data Based on Evidence Theory. *Liu, Z.*, +, *TSMC Aug. 2021 5129-5141*

A Unified Scheme for Distance Metric Learning and Clustering via Rank-Reduced Regression. *Guo, W.*, +, *TSMC Aug. 2021 5218-5229*

A Visual Leader-Following Approach With a T-D-R Framework for Quadrupeled Robots. *Pang, L.*, +, *TSMC April 2021 2342-2354*

Adaptive Online Learning With Regularized Kernel for One-Class Classification. *Gautam, C.*, +, *TSMC March 2021 1917-1932*

An Effective Data-Driven Cloud Resource Procurement Scheme With Personalized Reserve Prices. *Wu, X.*, +, *TSMC Aug. 2021 4693-4705*

An Instance-Frequency-Weighted Regularization Scheme for Non-Negative Latent Factor Analysis on High-Dimensional and Sparse Data. *Luo, X.*, +, *TSMC June 2021 3522-3532*

Artificial Vision by Deep CNN Neocognitron. *Fukushima, K.*, *TSMC Jan. 2021 76-90*

Bidirectional Associative Memories: Unsupervised Hebbian Learning to Bidirectional Backpropagation. *Kosko, B.*, *TSMC Jan. 2021 103-115*

Classification of EEG Signals on VEP-Based BCI Systems With Broad Learning. *Gao, Z.*, +, *TSMC Nov. 2021 7143-7151*

Collaborative Neural Social Recommendation. *Wu, L.*, +, *TSMC Jan. 2021 464-476*

Concept-Cognitive Learning Model for Incremental Concept Learning. *Shi, Y.*, +, *TSMC Feb. 2021 809-821*

Concurrent Processing Cluster Design to Empower Simultaneous Prediction for Hundreds of Vessels' Trajectories in Near Real-Time. *Xiao, Z.*, +, *TSMC March 2021 1830-1843*

Deep Attributed Network Embedding by Preserving Structure and Attribute Information. *Hong, R.*, +, *TSMC March 2021 1434-1445*

Deep Learning in Robotics: Survey on Model Structures and Training Strategies. *Karoly, A.I.*, +, *TSMC Jan. 2021 266-279*

DeSIRE: Deep Signer-Invariant Representations for Sign Language Recognition. *Ferreira, P.M.*, +, *TSMC Sept. 2021 5830-5845*

Distance-Preserving Vector Space Embedding for Consensus Learning. *Nienkotter, A.*, +, *TSMC Feb. 2021 1244-1257*

Distributed Optimal Observer Design of Networked Systems via Adaptive Critic Design. *Fu, H.*, +, *TSMC Nov. 2021 6976-6985*

Efficient Batch-Mode Reinforcement Learning Using Extreme Learning Machines. *Liu, J.*, +, *TSMC June 2021 3664-3677*

Enhanced Ensemble Clustering via Fast Propagation of Cluster-Wise Similarities. *Huang, D.*, +, *TSMC Jan. 2021 508-520*

Enhancing Learning Efficiency of Brain Storm Optimization via Orthogonal Learning Design. *Ma, L.*, +, *TSMC Nov. 2021 6723-6742*

Ensemble Learning Based Brain-Computer Interface System for Ground Vehicle Control. *Zhuang, J.*, +, *TSMC Sept. 2021 5392-5404*

Evolutionary Multiagent Transfer Learning With Model-Based Opponent Behavior Prediction. *Hou, Y.*, +, *TSMC Oct. 2021 5962-5976*

Formulating Ensemble Learning of SVMs Into a Single SVM Formulation by Negative Agreement Learning. *Zhou, J.*, +, *TSMC Oct. 2021 6015-6028*

Fusing Skeleton Recognition With Face-TLD for Human Following of Mobile Service Robots. *Yuan, J.*, +, *TSMC May 2021 2963-2979*

Graph Embedding-Based Dimension Reduction With Extreme Learning Machine. *Yang, L.*, +, *TSMC July 2021 4262-4273*

Hierarchical Lifelong Learning by Sharing Representations and Integrating Hypothesis. *Zhang, T.*, +, *TSMC Feb. 2021 1004-1014*

Knowledge-Data-Driven Model Predictive Control for a Class of Nonlinear Systems. *Han, H.*, +, *TSMC July 2021 4492-4504*

- Large-Scale Twin Parametric Support Vector Machine Using Pinball Loss Function. *Sharma, S.*, +, *TSMC Feb. 2021 987-1003*
- Learning Graph Similarity With Large Spectral Gap. *Wu, Z.*, +, *TSMC March 2021 1590-1600*
- Location-Aware Deep Collaborative Filtering for Service Recommendation. *Zhang, Y.*, +, *TSMC June 2021 3796-3807*
- Memristive LSTM Network for Sentiment Analysis. *Wen, S.*, +, *TSMC March 2021 1794-1804*
- Modified Sparse Representation Classification Framework for Online Writer Identification. *Venugopal, V.*, +, *TSMC Jan. 2021 314-325*
- Multi-Kernel Online Reinforcement Learning for Path Tracking Control of Intelligent Vehicles. *Liu, J.*, +, *TSMC Nov. 2021 6962-6975*
- Multilevel Image-Enhanced Sentence Representation Net for Natural Language Inference. *Zhang, K.*, +, *TSMC June 2021 3781-3795*
- Multiscale Multipath Ensemble Convolutional Neural Network. *Wang, X.*, +, *TSMC Sept. 2021 5918-5928*
- Multitask TSK Fuzzy System Modeling by Jointly Reducing Rules and Consequent Parameters. *Wang, J.*, +, *TSMC July 2021 4078-4090*
- Muscle-Synergies-Based Neuromuscular Control for Motion Learning and Generalization of a Musculoskeletal System. *Chen, J.*, +, *TSMC June 2021 3993-4006*
- Neural Modeling With Guaranteed Input–Output Probability Distributions. *Yu, W.*, +, *TSMC Nov. 2021 6660-6668*
- Non-Negative Latent Factor Model Based on β -Divergence for Recommender Systems. *Xin, L.*, +, *TSMC Aug. 2021 4612-4623*
- On the Utility of Power Spectral Techniques With Feature Selection Techniques for Effective Mental Task Classification in Noninvasive BCI. *Gupta, A.*, +, *TSMC May 2021 3080-3092*
- Policy-Iteration-Based Learning for Nonlinear Player Game Systems With Constrained Inputs. *Mu, C.*, +, *TSMC Oct. 2021 6488-6502*
- Proximal Parameter Distribution Optimization. *Wang, X.*, +, *TSMC June 2021 3771-3780*
- Self-Attention-Based Temporary Curiosity in Reinforcement Learning Exploration. *Hu, H.*, +, *TSMC Sept. 2021 5773-5784*
- Skill Learning From Human Demonstrations Using Dynamical Regressive Models for Multitask Applications. *Dutta, S.*, +, *TSMC Jan. 2021 659-672*
- Sliding-Mode Observer-Based Fault Reconstruction for T-S Fuzzy Descriptor Systems. *Li, R.*, +, *TSMC Aug. 2021 5046-5055*
- The Effective Cooperative Diffusion Strategies With Adaptation Ability by Learning Across Adaptive Network-Wide Systems. *Xiong, N.*, +, *TSMC July 2021 4112-4126*
- Toward Autonomous Adaptive Intelligence: Building Upon Neural Models of How Brains Make Minds. *Grossberg, S.*, *TSMC Jan. 2021 51-75*
- Using Conditional Random Fields to Optimize a Self-Adaptive Bell–LaPadula Model in Control Systems. *Yang, L.*, +, *TSMC July 2021 4505-4519*
- Word Representation Learning Based on Bidirectional GRUs With Drop Loss for Sentiment Classification. *Sun, X.*, +, *TSMC July 2021 4532-4542*
- Wrapper Framework for Test-Cost-Sensitive Feature Selection. *Jiang, L.*, +, *TSMC March 2021 1747-1756*
- Zero-Shot Learning Based on Multitask Extended Attribute Groups. *Wang, X.*, +, *TSMC March 2021 2003-2011*
- Learning systems**
- Adaptive Iterative Learning Control for High-Speed Train: A Multi-Agent Approach. *Huang, D.*, +, *TSMC July 2021 4067-4077*
- Connecting Model-Based and Model-Free Control With Emotion Modulation in Learning Systems. *Huang, X.*, +, *TSMC Aug. 2021 4624-4638*
- High-Order Internal Model-Based Iterative Learning Control for 2-D Linear FMMI Systems With Iteration-Varying Trajectory Tracking. *Wan, K.*, +, *TSMC March 2021 1462-1472*
- High-Precision Attitude Tracking Control of Space Manipulator System Under Multiple Disturbances. *Qiao, J.*, +, *TSMC July 2021 4274-4284*
- Looking Back on the Actor–Critic Architecture. *Barto, A.G.*, +, *TSMC Jan. 2021 40-50*
- Multi-Kernel Online Reinforcement Learning for Path Tracking Control of Intelligent Vehicles. *Liu, J.*, +, *TSMC Nov. 2021 6962-6975*
- On Finite-Duration Convergent Attracting Laws. *Sun, M.*, +, *TSMC Aug. 2021 5017-5029*
- RBFNN-Based Adaptive Iterative Learning Fault-Tolerant Control for Subway Trains With Actuator Faults and Speed Constraint. *Liu, G.*, +, *TSMC Sept. 2021 5785-5799*
- Repetitive Learning Control for Control-Affine Systems With Time Delays. *Li, H.*, +, *TSMC Aug. 2021 5142-5152*
- Robust Iterative Learning Control of 2-D Linear Discrete FMMII Systems Subject to Iteration-Dependent Uncertainties. *Wan, K.*, +, *TSMC Oct. 2021 5949-5961*
- Robust Tracking of Nonrepetitive Learning Control Systems With Iteration-Dependent References. *Meng, D.*, +, *TSMC Feb. 2021 842-852*
- Two-Dimensional Iterative Learning Model Predictive Control for Batch Processes: A New State Space Model Compensation Approach. *Zhang, R.*, +, *TSMC Feb. 2021 833-841*
- Least mean squares methods**
- Distributed Covariance Intersection Fusion Estimation With Delayed Measurements and Unknown Inputs. *Yu, D.*, +, *TSMC Aug. 2021 5165-5173*
- Linear and Nonlinear Regression-Based Maximum Correntropy Extended Kalman Filtering. *Liu, X.*, +, *TSMC May 2021 3093-3102*
- Least squares approximations**
- Optimization-Based Control for Bearing-Only Target Search With a Mobile Vehicle. *Li, Z.*, +, *TSMC July 2021 4149-4159*
- The Effective Cooperative Diffusion Strategies With Adaptation Ability by Learning Across Adaptive Network-Wide Systems. *Xiong, N.*, +, *TSMC July 2021 4112-4126*
- Legged locomotion**
- A Visual Leader-Following Approach With a T-D-R Framework for Quadruped Robots. *Pang, L.*, +, *TSMC April 2021 2342-2354*
- Foot Placement Compensator Design for Humanoid Walking Based on Discrete Control Lyapunov Function. *Liu, C.*, +, *TSMC April 2021 2332-2341*
- Model-Based Adaptive Control of Transfemoral Prostheses: Theory, Simulation, and Experiments. *Azimi, V.*, +, *TSMC Feb. 2021 1174-1191*
- Vision-Assisted Autonomous Lower-Limb Exoskeleton Robot. *Liu, D.*, +, *TSMC June 2021 3759-3770*
- Linear matrix inequalities**
- H_∞ Filtering for Nonhomogeneous Markovian Jump Repeated Scalar Nonlinear Systems With Multiplicative Noises and Partially Mode-Dependent Characterization. *Hua, M.*, +, *TSMC May 2021 3180-3192*
- A Dynamic Event-Triggered Control Approach to Leader-Following Consensus for Linear Multiagent Systems. *Liu, D.*, +, *TSMC Oct. 2021 6271-6279*
- A Fuzzy Lyapunov Function Approach to Positive L_1 Observer Design for Positive Fuzzy Semi-Markovian Switching Systems With Its Application. *Qi, W.*, +, *TSMC Feb. 2021 775-785*
- A Generalized System Approach to Intermittent Nonfragile Control of Stochastic Neutral Time-Varying Delay Systems. *Ding, K.*, +, *TSMC Nov. 2021 7017-7026*
- A Hybrid Sliding Mode Control Scheme of Markovian Jump Systems via Transition Rates Optimal Design. *Cao, Z.*, +, *TSMC Dec. 2021 7752-7763*
- A New Filter Design Method for a Class of Fuzzy Systems With Time Delays. *Lian, Z.*, +, *TSMC Oct. 2021 6477-6487*
- A New Switched System Approach to Leader–Follower Consensus of Heterogeneous Linear Multiagent Systems With DoS Attack. *Zhang, D.*, +, *TSMC Feb. 2021 1258-1266*
- A Universal Framework of the Generalized Kalman–Yakubovich–Popov Lemma for Singular Fractional-Order Systems. *Li, Y.*, +, *TSMC Aug. 2021 5209-5217*
- Adaptive Event-Triggered and Double-Quantized Consensus of Leader–Follower Multiagent Systems With Semi-Markovian Jump Parameters. *Gong, C.*, +, *TSMC Sept. 2021 5867-5879*
- Adaptive Event-Triggered Fault Detection Scheme for Semi-Markovian Jump Systems With Output Quantization. *Zhang, L.*, +, *TSMC April 2021 2370-2381*
- Admissibilization for Implicit Jump Systems With Mixed Retarded Delays Based on Reciprocally Convex Integral Inequality and Barbalat’s Lemma. *Zhuang, G.*, +, *TSMC Nov. 2021 6808-6818*
- Admissible Consensus for Homogenous Descriptor Multiagent Systems. *Liu, X.*, +, *TSMC Feb. 2021 965-974*

- An Improved Impulsive Control Approach for Cluster Synchronization of Complex Networks With Parameter Mismatches. *Wang, X., +, TSMC April 2021 2561-2570*
- An Input Delay Approach to Interval Type-2 Fuzzy Exponential Stabilization for Nonlinear Unreliable Networked Sampled-Data Control Systems. *Du, Z., +, TSMC June 2021 3488-3497*
- Annular Domain Finite-Time Connective Control for Large-Scale Systems With Expanding Construction. *Liu, Y., +, TSMC Oct. 2021 6159-6169*
- Asynchronous Finite-Time Filtering of Markov Jump Nonlinear Systems and Its Applications. *Ren, H., +, TSMC March 2021 1725-1734*
- Asynchronous Output Feedback Control for a Class of Conic-Type Nonlinear Hidden Markov Jump Systems Within a Finite-Time Interval. *Cheng, P., +, TSMC Dec. 2021 7644-7651*
- Bandwidth Allocation-Based Switched Dynamic Triggering Control Against DoS Attacks. *Hu, S., +, TSMC Oct. 2021 6050-6061*
- Cluster Event-Triggered Tracking Cooperative and Formation Control for Multivehicle Systems: An Extended Magnification Region Condition. *Wang, B., TSMC May 2021 3229-3239*
- Containment Control of Semi-Markovian Multiagent Systems With Switching Topologies. *Liang, H., +, TSMC June 2021 3889-3899*
- Design of Interval Type-2 Fuzzy-Based Sampled-Data Controller for Nonlinear Systems Using Novel Fuzzy Lyapunov Functional and its Application to PMSM. *Shanmugam, L., +, TSMC Jan. 2021 542-551*
- Design of Observer-Based Event-Triggered Fuzzy ISMC for T-S Fuzzy Model and its Application to PMSG. *Mani, P., +, TSMC April 2021 2221-2231*
- Design of Sliding-Mode-Based Control for Nonlinear Systems With Mixed-Delays and Packet Losses Under Uncertain Missing Probability. *Hu, J., +, TSMC May 2021 3217-3228*
- Dissipativity Analysis of Switched Gene Regulatory Networks Actuated by Persistent Dwell-Time Switching Strategy. *Shen, H., +, TSMC Sept. 2021 5535-5546*
- Dissipativity-Based Asynchronous Control for 2-D Markov Jump Systems in Continuous-Time Domain. *Shen, Y., +, TSMC Sept. 2021 5349-5356*
- Distributed Control of Networked Nonlinear Systems via Interconnected Takagi-Sugeno Fuzzy Systems With Nonlinear Consequent. *Araujo, R.F., +, TSMC Aug. 2021 4858-4867*
- Distributed Secure Platoon Control of Connected Vehicles Subject to DoS Attack: Theory and Application. *Zhang, D., +, TSMC Nov. 2021 7269-7278*
- Event-Triggered H_∞ Filtering for Networked Switched Systems With Packet Disorders. *Qi, Y., +, TSMC May 2021 2847-2859*
- Event-Triggered Consensus of General Linear Multiagent Systems With Data Sampling and Random Packet Losses. *Wang, F., +, TSMC Feb. 2021 1313-1321*
- Event-Triggered Sliding Mode Control of Switched Neural Networks With Mode-Dependent Average Dwell Time. *Yan, H., +, TSMC Feb. 2021 1233-1243*
- Exponentially Stabilizing Observer-Based Feedback Control of a Sampled-Data Linear Parabolic Multiple-Input–Multiple-Output PDE. *Wang, J., TSMC Sept. 2021 5742-5751*
- Extended Dissipativity Performance of High-Speed Train Including Actuator Faults and Probabilistic Time-Delays Under Resilient Reliable Control. *Cao, J., +, TSMC June 2021 3808-3819*
- Finite-Time State Estimation for Delayed Neural Networks With Redundant Delayed Channels. *Zhao, Z., +, TSMC Jan. 2021 441-451*
- Finite-Time Synchronization for Switched Neural Networks via Quantized Feedback Control. *Guan, C., +, TSMC May 2021 2873-2884*
- Global Consensus of Positive Edge System With Sector Input Nonlinearities. *Wu, H., +, TSMC July 2021 4057-4066*
- H_∞ Filtering of Repeated Scalar Nonlinear Systems: Event-Triggered Communication Case. *Li, J., +, TSMC June 2021 3392-3400*
- Hidden Markov Model Based Fault Detection for Networked Singularly Perturbed Systems. *Wan, X., +, TSMC Oct. 2021 6445-6456*
- HMM-Based Asynchronous Controller Design of Markovian Jumping Lur'e Systems Within a Finite-Time Interval. *Nie, R., +, TSMC Nov. 2021 6885-6891*
- Improved Stability Criteria for Discrete-Time Switched T-S Fuzzy Systems. *Fei, Z., +, TSMC Feb. 2021 712-720*
- Impulsive Stabilization of Nonlinear Time-Delay System With Input Saturation via Delay-Dependent Polytopic Approach. *Li, H., +, TSMC Nov. 2021 7087-7098*
- Input–Output Finite-Time Estimation for Complex Networks With Switching Topology Under Dynamic Event-Triggered Transmission. *Sang, H., +, TSMC Oct. 2021 6513-6522*
- Input–Output Finite-Time Reliable Static Output Control of Time-Varying System With Input Delay. *Chen, M., +, TSMC Feb. 2021 1334-1344*
- Input-to-State Stability of Nonlinear Systems Using Observer-Based Event-Triggered Impulsive Control. *Li, X., +, TSMC Nov. 2021 6892-6900*
- Integrated Synchronization and Anti-Disturbance Control Design for Fuzzy Model-Based Multiweighted Complex Network. *Kaviarasan, B., +, TSMC Oct. 2021 6330-6341*
- Local Stabilization of Continuous-Time T-S Fuzzy Systems With Partly Measurable Premise Variables and Time-Varying Delay. *Wu, Y., +, TSMC Jan. 2021 326-338*
- New Stability Conditions for Switched Linear Systems: A Reverse-Timer-Dependent Multiple Discontinuous Lyapunov Function Approach. *Li, Y., +, TSMC Oct. 2021 6564-6575*
- Nonfragile Consensus of Multiagent Systems Based on Memory Sampled-Data Control. *Ge, C., +, TSMC Jan. 2021 391-399*
- Nonfragile Observer-Based Control for Markovian Jump Systems Subject to Asynchronous Modes. *Tao, J., +, TSMC June 2021 3533-3540*
- Nonfragile Sampled-Data Filtering of Uncertain Fuzzy Systems With Time-Varying Delays. *Luo, J., +, TSMC Aug. 2021 4993-5004*
- Partial-Nodes-Based Scalable H_∞ -Consensus Filtering With Censored Measurements Over Sensor Networks. *Han, F., +, TSMC March 2021 1892-1903*
- Passivity-Based Fuzzy ISMC for Wind Energy Conversion Systems With PMSG. *Subramaniam, R., +, TSMC April 2021 2212-2220*
- Quantized Static Output Feedback Fuzzy Tracking Control for Discrete-Time Nonlinear Networked Systems With Asynchronous Event-Triggered Constraints. *Li, Z., +, TSMC June 2021 3820-3831*
- Quasi-Consensus Control for a Class of Time-Varying Stochastic Nonlinear Time-Delay Multiagent Systems Subject to Deception Attacks. *Liu, L., +, TSMC Nov. 2021 6863-6873*
- Receding Horizon Synchronization of Delayed Neural Networks Using a Novel Inequality on Quadratic Polynomial Functions. *Lu, C., +, TSMC Oct. 2021 6085-6095*
- Relay Tracking Controller Design for Multiagent Systems With Varying Number of Agents. *Dong, L., +, TSMC Oct. 2021 6147-6158*
- Reliable Fuzzy H_∞ Control for Permanent Magnet Synchronous Motor Against Stochastic Actuator Faults. *Vadivel, R., +, TSMC April 2021 2232-2245*
- Reset Control for Consensus of Multiagent Systems With Asynchronous Sampling. *Zhao, G., +, TSMC Aug. 2021 4911-4919*
- Resilient H_∞ Filtering for Event-Triggered Networked Systems Under Nonperiodic DoS Jamming Attacks. *Hu, S., +, TSMC March 2021 1392-1403*
- Robust Containment Control of Uncertain Multi-Agent Systems With Time-Delay and Heterogeneous Lipschitz Nonlinearity. *Parsa, M., +, TSMC April 2021 2312-2321*
- Robust Exponential Stability Analysis for Stochastic Systems With Actuator Faults Using Improved Weighted Relaxed Integral Inequality. *Gnanewaran, N., +, TSMC June 2021 3346-3357*
- Robust LMI-Based H-Infinite Controller Integrating AFS and DYC of Autonomous Vehicles With Parametric Uncertainties. *Cheng, S., +, TSMC Nov. 2021 6901-6910*
- Robust Model Predictive Iterative Learning Control for Iteration-Varying-Reference Batch Processes. *Liu, X., +, TSMC July 2021 4238-4250*
- Robust Resilient Control Based on Multi-Approximator for the Uncertain Turbofan System With Unmeasured States and Disturbances. *Li, Y., +, TSMC Oct. 2021 6040-6049*
- Sampled-Based Consensus for Nonlinear Multiagent Systems With Deception Attacks: The Decoupled Method. *Cui, Y., +, TSMC Jan. 2021 561-573*

- Security Control for T-S Fuzzy Systems With Adaptive Event-Triggered Mechanism and Multiple Cyber-Attacks. *Liu, J., +, TSMC Oct. 2021 6544-6554*
- Sliding Mode Control for a Class of Nonlinear Singular Systems With Partly Immeasurable Premise Variables. *Sun, X., +, TSMC April 2021 2433-2443*
- Sliding Mode Control for Markov Jump Systems With Delays via Asynchronous Approach. *Fang, M., +, TSMC May 2021 2916-2925*
- Sliding-Mode Observer-Based Fault Reconstruction for T-S Fuzzy Descriptor Systems. *Li, R., +, TSMC Aug. 2021 5046-5055*
- Soft-Bound Interval Control System and Its Robust Fault-Tolerant Controller Design. *Zhou, J., +, TSMC Jan. 2021 378-390*
- Stability Analysis of Complex Network Control System With Dynamical Topology and Delays. *Li, M., +, TSMC Nov. 2021 7228-7237*
- Stability and Stabilization for T-S Fuzzy Large-Scale Interconnected Power System With Wind Farm via Sampled-Data Control. *Shanmugam, L., +, TSMC April 2021 2134-2144*
- Stabilization of Networked Control Systems With Hybrid-Driven Mechanism and Probabilistic Cyber Attacks. *Liu, J., +, TSMC Feb. 2021 943-953*
- Takagi-Sugeno Model-Based Reliable Sliding Mode Control of Descriptor Systems With Semi-Markov Parameters: Average Dwell Time Approach. *Jiang, B., +, TSMC March 2021 1549-1558*
- Threshold-Function-Dependent Quasi-Synchronization of Delayed Memristive Neural Networks via Hybrid Event-Triggered Control. *Yan, Z., +, TSMC Nov. 2021 6712-6722*
- Linear motors**
- Experimental Output Regulation of Linear Motor Driven Inverted Pendulum With Friction Compensation. *Ping, Z., +, TSMC June 2021 3751-3758*
- Extended State Observer-Based Data-Driven Iterative Learning Control for Permanent Magnet Linear Motor With Initial Shifts and Disturbances. *Hui, Y., +, TSMC March 2021 1881-1891*
- Linear parameter varying systems**
- Robust Model Predictive Iterative Learning Control for Iteration-Varying-Reference Batch Processes. *Liu, X., +, TSMC July 2021 4238-4250*
- Robust Multimodel Identification of LPV Systems With Missing Observations Based on t-Distribution. *Liu, X., +, TSMC Aug. 2021 5254-5260*
- Linear programming**
- Closing-Down Optimization for Single-Arm Cluster Tools Subject to Wafer Residency Time Constraints. *Qiao, Y., +, TSMC Nov. 2021 6792-6807*
- Decision on Maximal Permissiveness of Linear Constraints via Structural Analysis of a Subclass of Petri Nets. *Chen, H., +, TSMC July 2021 4347-4358*
- Global Social Cost Minimization With Possibly Nonconvex Objective Functions: An Extremum Seeking-Based Approach. *Ye, M., +, TSMC Dec. 2021 7413-7422*
- Stability and ℓ_1 -Gain Analysis for Switched Positive Systems With MDADT Based on Quasi-Time-Dependent Approach. *Li, X., +, TSMC Sept. 2021 5846-5854*
- Linear quadratic control**
- Adaptive Compensation of Persistent Actuator Failures Using Control-Separation-Based LQ Design. *Wen, L., +, TSMC Aug. 2021 5030-5045*
- Data-Driven Output-Feedback LQ Secure Control for Unknown Cyber-Physical Systems Against Sparse Actuator Attacks. *Shen, X., +, TSMC Sept. 2021 5708-5720*
- Multi-Kernel Online Reinforcement Learning for Path Tracking Control of Intelligent Vehicles. *Liu, J., +, TSMC Nov. 2021 6962-6975*
- Multiobjective Dynamic Optimization of Cooperative Difference Games in Infinite Horizon. *Peng, C., +, TSMC Nov. 2021 6669-6680*
- Optimal Control and Stabilization for Networked Systems With Input Delay and Markovian Packet Losses. *Li, H., +, TSMC July 2021 4453-4465*
- Visual Servoing of a Flexible Aerial Refueling Boom With an Eye-in-Hand Camera. *Cui, L., +, TSMC Oct. 2021 6282-6292*
- Linear systems**
- H_∞ Filtering for Nonhomogeneous Markovian Jump Repeated Scalar Nonlinear Systems With Multiplicative Noises and Partially Mode-Dependent Characterization. *Hua, M., +, TSMC May 2021 3180-3192*
- A Dynamic Event-Triggered Control Approach to Leader-Following Consensus for Linear Multiagent Systems. *Liu, D., +, TSMC Oct. 2021 6271-6279*
- A Linear Time-Varying Model Predictive Control-Based Motion Cueing Algorithm for Hexapod Simulation-Based Motion Platform. *Qazani, M.R.C., +, TSMC Oct. 2021 6096-6110*
- A New Switched System Approach to Leader-Follower Consensus of Heterogeneous Linear Multiagent Systems With DoS Attack. *Zhang, D., +, TSMC Feb. 2021 1258-1266*
- A Universal Framework of the Generalized Kalman-Yakubovich-Popov Lemma for Singular Fractional-Order Systems. *Li, Y., +, TSMC Aug. 2021 5209-5217*
- Adaptive Asymptotic Tracking for a Class of Uncertain Switched Positive Compartmental Models With Application to Anesthesia. *Ly, M., +, TSMC Aug. 2021 4936-4942*
- Auxiliary Predictive Compensation-Based ILC for Variable Pass Lengths. *Lin, N., +, TSMC July 2021 4048-4056*
- Characteristic Modeling Approach for High-Order Linear Dynamical Systems. *Chen, L., +, TSMC Sept. 2021 5405-5413*
- Cluster Event-Triggered Tracking Cooperative and Formation Control for Multivehicle Systems: An Extended Magnification Region Condition. *Wang, B., TSMC May 2021 3229-3239*
- Connection of Signed and Unsigned Networks Based on Solving Linear Dynamic Systems. *Meng, D., +, TSMC Aug. 2021 5174-5188*
- Cooperative Fault-Tolerant Output Regulation of Linear Heterogeneous Multiagent Systems Under Directed Network Topology. *Deng, C., TSMC Aug. 2021 4773-4781*
- Distributed Bipartite Consensus of Linear Multiagent Systems Based on Event-Triggered Output Feedback Control Scheme. *Cai, Y., +, TSMC Nov. 2021 6743-6756*
- Distributed Model-Based Event-Triggered Leader-Follower Consensus Control for Linear Continuous-Time Multiagent Systems. *Zhang, L., +, TSMC Oct. 2021 6457-6465*
- Distributed Output-Feedback Tracking of Multiple Nonlinear Systems With Unmeasurable States. *Li, W., +, TSMC Jan. 2021 477-486*
- Dwell-Time-Based Exponential Stabilization of Switched Positive Systems With Actuator Saturation. *Ma, R., +, TSMC Dec. 2021 7685-7691*
- Estimation for Networked Random Sampling Systems With Packet Losses. *Lin, H., +, TSMC Sept. 2021 5511-5521*
- Event-Based Formation Coordinated Control for Multiple Spacecraft Under Communication Constraints. *Hu, Q., +, TSMC May 2021 3168-3179*
- Event-Triggered Consensus of General Linear Multiagent Systems With Data Sampling and Random Packet Losses. *Wang, F., +, TSMC Feb. 2021 1313-1321*
- Event-Triggered Control for Output Regulation of Probabilistic Logical Systems With Delays. *He, J., +, TSMC Nov. 2021 6842-6851*
- Event-Triggered Distributed H_∞ Constrained Control of Physically Interconnected Large-Scale Partially Unknown Strict-Feedback Systems. *Tan, L.N., TSMC April 2021 2444-2456*
- Event-Triggered Robust Output Regulation of Uncertain Linear Systems With Unknown Exosystems. *Qian, Y., +, TSMC July 2021 4139-4148*
- Exponentially Stabilizing Observer-Based Feedback Control of a Sampled-Data Linear Parabolic Multiple-Input-Multiple-Output PDE. *Wang, J., TSMC Sept. 2021 5742-5751*
- Finite-Time State Estimation for Delayed Neural Networks With Redundant Delayed Channels. *Zhao, Z., +, TSMC Jan. 2021 441-451*
- Finite-Time Synchronization for Switched Neural Networks via Quantized Feedback Control. *Guan, C., +, TSMC May 2021 2873-2884*
- Full Information Estimation for Time-Varying Systems Subject to Round-Robin Scheduling: A Recursive Filter Approach. *Zou, L., +, TSMC March 2021 1904-1916*
- Generalized Lead-Lag H_∞ Compensators for MIMO Linear Systems. *Liu, J.J.R., +, TSMC Oct. 2021 6207-6217*
- High-Order Internal Model-Based Iterative Learning Control for 2-D Linear FMMI Systems With Iteration-Varying Trajectory Tracking. *Wan, K., +, TSMC March 2021 1462-1472*
- HMM-Based Asynchronous Controller Design of Markovian Jumping Lur'e Systems Within a Finite-Time Interval. *Nie, R., +, TSMC Nov. 2021 6885-6891*

Input–Output Finite-Time Estimation for Complex Networks With Switching Topology Under Dynamic Event-Triggered Transmission. *Sang, H.*, +, *TSMC Oct. 2021 6513-6522*

Input–Output Finite-Time Reliable Static Output Control of Time-Varying System With Input Delay. *Chen, M.*, +, *TSMC Feb. 2021 1334-1344*

Integrated Scheduling of a Dual-Armed Cluster Tool for Maximizing Steady Schedule Patterns. *Kim, W.*, +, *TSMC Dec. 2021 7282-7294*

LPV Scheme for Robust Adaptive Output Feedback Consensus of Lipschitz Multiagents Using Lipschitz Nonlinear Protocol. *Rehman, A.U.*, +, *TSMC Nov. 2021 7040-7050*

Model-Based Periodic Event-Triggered Control Strategy to Stabilize a Scalar Nonlinear System. *Dou, R.*, +, *TSMC Sept. 2021 5322-5335*

Moving Horizon Estimation of Networked Nonlinear Systems With Random Access Protocol. *Zou, L.*, +, *TSMC May 2021 2937-2948*

New Stability Conditions for Switched Linear Systems: A Reverse-Timer-Dependent Multiple Discontinuous Lyapunov Function Approach. *Li, Y.*, +, *TSMC Oct. 2021 6564-6575*

Optimal Control and Stabilization for Networked Systems With Input Delay and Markovian Packet Losses. *Li, H.*, +, *TSMC July 2021 4453-4465*

Optimal Control on Finite-Time Consensus of the Leader-Following Stochastic Multiagent System With Heuristic Method. *Xu, S.*, +, *TSMC June 2021 3617-3628*

Output Consensus of Multiagent Systems Based on PDEs With Input Constraint: A Boundary Control Approach. *Yang, C.*, +, *TSMC Jan. 2021 370-377*

Parity Space Vector Machine Approach to Robust Fault Detection for Linear Discrete-Time Systems. *Zhong, M.*, +, *TSMC July 2021 4251-4261*

Partial-Nodes-Based Scalable H_∞ -Consensus Filtering With Censored Measurements Over Sensor Networks. *Han, F.*, +, *TSMC March 2021 1892-1903*

Receding Horizon Synchronization of Delayed Neural Networks Using a Novel Inequality on Quadratic Polynomial Functions. *Lu, C.*, +, *TSMC Oct. 2021 6085-6095*

Reduced-Order Estimator-Based Efficient Fault-Tolerant Tracking Control Optimization for Constrained LPV Systems. *Han, K.*, +, *TSMC Sept. 2021 5855-5866*

Robust Exact Predictive Scheme for Output-Feedback Control of Input-Delay Systems With Unmatched Sinusoidal Disturbances. *Shi, S.*, +, *TSMC Sept. 2021 5357-5366*

Robust Iterative Learning Control of 2-D Linear Discrete FMMII Systems Subject to Iteration-Dependent Uncertainties. *Wan, K.*, +, *TSMC Oct. 2021 5949-5961*

Semiglobal Observer-Based Positive Scaled Edge-Consensus of Networked Discrete-Time Systems Under Actuator Saturation. *Sun, Y.*, +, *TSMC July 2021 4543-4554*

Stability Analysis for Input Saturated Discrete-Time Switched Systems With Average Dwell-Time. *Wang, Q.*, +, *TSMC Jan. 2021 412-419*

Stability Analysis of Systems With Time-Varying Delay via Improved Lyapunov–Krasovskii Functionals. *Long, F.*, +, *TSMC April 2021 2457-2466*

Stability and ℓ_1 -Gain Analysis for Switched Positive Systems With MDADT Based on Quasi-Time-Dependent Approach. *Li, X.*, +, *TSMC Sept. 2021 5846-5854*

Time-Varying Formation for General Linear Multiagent Systems Over Directed Topologies: A Fully Distributed Adaptive Technique. *Zhao, Y.*, +, *TSMC Jan. 2021 532-541*

Linearity

Asynchronous Output Feedback Control for a Class of Conic-Type Nonlinear Hidden Markov Jump Systems Within a Finite-Time Interval. *Cheng, P.*, +, *TSMC Dec. 2021 7644-7651*

Linearization techniques

A Robust Hybrid of a Feedback Linearization Technique and an Interval Type-2 Fuzzy Control System for the Flapping Angle Dynamics of a Biomimetic Aircraft. *Santoso, F.*, +, *TSMC Sept. 2021 5664-5673*

Consensus of One-Sided Lipschitz Multiagents Under Switching Topologies. *Razaq, M.A.*, +, *TSMC March 2021 1485-1495*

Event-Triggered Model-Free Adaptive Control. *Lin, N.*, +, *TSMC June 2021 3358-3369*

H_∞ Filtering of Repeated Scalar Nonlinear Systems: Event-Triggered Communication Case. *Li, J.*, +, *TSMC June 2021 3392-3400*

Position-Tracking Controller for Two-Wheeled Balancing Robot Applications Using Invariant Dynamic Surface. *Kim, S.*, +, *TSMC Feb. 2021 705-711*

Time-Scale Redesign-Based Saturated Controller Synthesis for a Class of MIMO Nonlinear Systems. *Rayguru, M.M.*, +, *TSMC Aug. 2021 4681-4692*

Load dispatching

An Accelerated Distributed Gradient-Based Algorithm for Constrained Optimization With Application to Economic Dispatch in a Large-Scale Power System. *Guo, F.*, +, *TSMC April 2021 2041-2053*

Optimal Load Frequency Control for Networked Power Systems Based on Distributed Economic MPC. *Jia, Y.*, +, *TSMC April 2021 2123-2133*

Load flow

A Hierarchical Event Detection Method Based on Spectral Theory of Multi-dimensional Matrix for Power System. *Ma, D.*, +, *TSMC April 2021 2173-2186*

Resilience Indices for Power/Cyberphysical Systems. *Talukder, S.*, +, *TSMC April 2021 2159-2172*

Load modeling

Integrated Scheduling of a Dual-Armed Cluster Tool for Maximizing Steady Schedule Patterns. *Kim, W.*, +, *TSMC Dec. 2021 7282-7294*

Load regulation

Resilient Load Frequency Control of Cyber-Physical Power Systems Under QoS-Dependent Event-Triggered Communication. *Sun, H.*, +, *TSMC April 2021 2113-2122*

Logistics

A Heterogeneous Data Analytics Framework for RFID-Enabled Factories. *Zhong, R.Y.*, +, *TSMC Sept. 2021 5567-5576*

Low voltage

Special Issue on Recent Advances for Intelligence in Power and Energy Systems. *Kumar, R.*, +, *TSMC April 2021 2036-2040*

Low-pass filters

Toward Optimal Risk-Averse Configuration for HESS With CGANs-Based PV Scenario Generation. *Yang, X.*, +, *TSMC March 2021 1779-1793*

Lyapunov methods

\mathcal{L}_1 Control of Positive Semi-Markov Jump Systems With State Delay. *Zong, G.*, +, *TSMC Dec. 2021 7569-7578*

H_∞ Filtering for Nonhomogeneous Markovian Jump Repeated Scalar Nonlinear Systems With Multiplicative Noises and Partially Mode-Dependent Characterization. *Hua, M.*, +, *TSMC May 2021 3180-3192*

A Control-Theoretic Study on Iterative Solution to Control Allocation for Over-Actuated Aircraft. *Cui, L.*, +, *TSMC June 2021 3429-3439*

A Dynamic Event-Triggered Approach to H_∞ Control for Discrete-Time Singularly Perturbed Systems With Time-Delays and Sensor Saturations. *Ma, L.*, +, *TSMC Nov. 2021 6614-6625*

A Fuzzy Lyapunov Function Approach to Positive L_1 Observer Design for Positive Fuzzy Semi-Markovian Switching Systems With Its Application. *Qi, W.*, +, *TSMC Feb. 2021 775-785*

A Generalized System Approach to Intermittent Nonfragile Control of Stochastic Neutral Time-Varying Delay Systems. *Ding, K.*, +, *TSMC Nov. 2021 7017-7026*

A New Filter Design Method for a Class of Fuzzy Systems With Time Delays. *Lian, Z.*, +, *TSMC Oct. 2021 6477-6487*

A Novel Finite-Time Control for Nonstrict Feedback Saturated Nonlinear Systems With Tracking Error Constraint. *Sun, K.*, +, *TSMC June 2021 3968-3979*

A Novel Synchronization Protocol for Nonlinear Stochastic Dynamical Networked Systems. *Gu, H.*, +, *TSMC May 2021 2676-2686*

Adaptive Asymptotic Tracking for a Class of Uncertain Switched Positive Compartmental Models With Application to Anesthesia. *Lu, M.*, +, *TSMC Aug. 2021 4936-4942*

Adaptive Backstepping Control for Fractional-Order Nonlinear Systems With External Disturbance and Uncertain Parameters Using Smooth Control. *Li, X.*, +, *TSMC Dec. 2021 7860-7869*

- Adaptive Command Filtered Neuro-Fuzzy Control Design for Fractional-Order Nonlinear Systems With Unknown Control Directions and Input Quantization. *Song, S., +, TSMC Nov. 2021 7238-7249*
- Adaptive Control of Full-State Constrained High-Order Nonlinear Systems With Time-Varying Powers. *Guo, C., +, TSMC Aug. 2021 5189-5197*
- Adaptive Dynamic Surface Fuzzy Control for State Constrained Time-Delay Nonlinear Nonstrict Feedback Systems With Unknown Control Directions. *Sun, W., +, TSMC Dec. 2021 7423-7434*
- Adaptive Event-Triggered and Double-Quantized Consensus of Leader-Follower Multiagent Systems With Semi-Markovian Jump Parameters. *Gong, C., +, TSMC Sept. 2021 5867-5879*
- Adaptive Event-Triggered Fault Detection Scheme for Semi-Markovian Jump Systems With Output Quantization. *Zhang, L., +, TSMC April 2021 2370-2381*
- Adaptive Finite-Time Saturated Tracking Control for a Class of Partially Known Robots. *Hwang, C., +, TSMC Sept. 2021 5674-5685*
- Adaptive Finite-Time Tracking Control for Continuous Stirred Tank Reactor With Time-Varying Output Constraint. *Li, D., +, TSMC Sept. 2021 5929-5934*
- Adaptive Fixed-Time Control of Error-Constrained Pure-Feedback Interconnected Nonlinear Systems. *Zhou, Q., +, TSMC Oct. 2021 6369-6380*
- Adaptive Fuzzy Full-State and Output-Feedback Control for Uncertain Robots With Output Constraint. *Yu, X., +, TSMC Nov. 2021 6994-7007*
- Adaptive High-Order Terminal Sliding Mode Control Based on Time Delay Estimation for the Robotic Manipulators With Backlash Hysteresis. *Ahmed, S., +, TSMC Feb. 2021 1128-1137*
- Adaptive Intelligent Control for Input and Output Constrained High-Order Uncertain Nonlinear Systems. *Sun, W., +, TSMC Sept. 2021 5577-5586*
- Adaptive Inverse Control of a Vibrating Coupled Vessel-Riser System With Input Backlash. *He, X., +, TSMC Aug. 2021 4706-4715*
- Adaptive Leaderless Consensus Control of Strict-Feedback Nonlinear Multiagent Systems With Unknown Control Directions. *Rezaee, H., +, TSMC Oct. 2021 6435-6444*
- Adaptive Neural Discrete-Time Fractional-Order Control for a UAV System With Prescribed Performance Using Disturbance Observer. *Shao, S., +, TSMC Feb. 2021 742-754*
- Adaptive Neural Network Control Design for Uncertain Nonstrict Feedback Nonlinear System With State Constraints. *Ma, L., +, TSMC June 2021 3678-3686*
- Adaptive Neural Network-Based Finite-Time Tracking Control for Nonstrict Nonaffined MIMO Nonlinear Systems. *Li, S., +, TSMC Aug. 2021 4814-4824*
- Adaptive Neural Tracking Control Scheme of Switched Stochastic Nonlinear Pure-Feedback Nonlower Triangular Systems. *Niu, B., +, TSMC Feb. 2021 975-986*
- Adaptive NN Cross Backstepping Control for Nonlinear Systems With Partial Time-Varying State Constraints and Its Applications to Hyper-Chaotic Systems. *Li, D., +, TSMC May 2021 2821-2832*
- Adaptive Nonlinear Hierarchical Control for a Rotorcraft Transporting a Cable-Suspended Payload. *Liang, X., +, TSMC July 2021 4171-4182*
- Adaptive Quantized Control of Output Feedback Nonlinear Systems With Input Unmodeled Dynamics Based on Backstepping and Small-Gain Method. *Xia, X., +, TSMC Sept. 2021 5686-5697*
- Adaptive Vehicle Stability Control of Half-Car Active Suspension Systems With Partial Performance Constraints. *Zeng, Q., +, TSMC March 2021 1704-1714*
- Adaptively Synchronize the Derivative Coupled Complex Networks With Proportional Delay. *Tang, Z., +, TSMC Aug. 2021 4969-4979*
- Admissibilization for Implicit Jump Systems With Mixed Retarded Delays Based on Reciprocally Convex Integral Inequality and Barbalat's Lemma. *Zhuang, G., +, TSMC Nov. 2021 6808-6818*
- An Improved Impulsive Control Approach for Cluster Synchronization of Complex Networks With Parameter Mismatches. *Wang, X., +, TSMC April 2021 2561-2570*
- An Improved Result on Sampled-Data Synchronization of Markov Jump Delayed Neural Networks. *Shen, H., +, TSMC June 2021 3608-3616*
- An Input Delay Approach to Interval Type-2 Fuzzy Exponential Stabilization for Nonlinear Unreliable Networked Sampled-Data Control Systems. *Du, Z., +, TSMC June 2021 3488-3497*
- Annular Domain Finite-Time Connective Control for Large-Scale Systems With Expanding Construction. *Liu, Y., +, TSMC Oct. 2021 6159-6169*
- Asymmetric Bounded Neural Control for an Uncertain Robot by State Feedback and Output Feedback. *Kong, L., +, TSMC March 2021 1735-1746*
- Asymptotic Stability and Synchronization of Fractional-Order Neural Networks With Unbounded Time-Varying Delays. *Zhang, F., +, TSMC Sept. 2021 5547-5556*
- Asynchronous Finite-Time Filtering of Markov Jump Nonlinear Systems and Its Applications. *Ren, H., +, TSMC March 2021 1725-1734*
- Bandwidth Allocation-Based Switched Dynamic Triggering Control Against DoS Attacks. *Hu, S., +, TSMC Oct. 2021 6050-6061*
- Boundary Output Constrained Control for a Flexible Beam System With Prescribed Performance. *Zhao, Z., +, TSMC Aug. 2021 4650-4658*
- Cluster Event-Triggered Tracking Cooperative and Formation Control for Multivehicle Systems: An Extended Magnification Region Condition. *Wang, B., TSMC May 2021 3229-3239*
- Consensus of Multiagent Systems With Delayed Node Dynamics and Time-Varying Coupling. *Jia, Q., +, TSMC June 2021 3320-3329*
- Consensus of Multiagent Systems With Relative State Saturations. *Chu, H., +, TSMC April 2021 2391-2402*
- Consensus of Multiagent Systems With Time-Varying Input Delay via Truncated Predictor Feedback. *Chu, H., +, TSMC Oct. 2021 6062-6073*
- Cooperative Fault-Tolerant Output Regulation of Linear Heterogeneous Multiagent Systems Under Directed Network Topology. *Deng, C., TSMC Aug. 2021 4773-4781*
- Cooperative Moving-Target Enclosing Control for Multiple Nonholonomic Vehicles Using Feedback Linearization Approach. *Peng, X., +, TSMC Aug. 2021 4929-4935*
- Couple-Group Consensus for Cooperative-Competitive Heterogeneous Multiagent Systems: Hybrid Adaptive and Pinning Methods. *Ji, L., +, TSMC Sept. 2021 5367-5376*
- Decentralized Event-Triggered Tracking of a Class of Uncertain Interconnected Nonlinear Systems Using Minimal Function Approximators. *Choi, Y.H., +, TSMC March 2021 1766-1778*
- Design and Implementation of Observer-Based Sliding Mode for Underactuated Rendezvous System. *Du, C., +, TSMC Oct. 2021 6003-6014*
- Design of Interval Type-2 Fuzzy-Based Sampled-Data Controller for Nonlinear Systems Using Novel Fuzzy Lyapunov Functional and its Application to PMSM. *Shanmugam, L., +, TSMC Jan. 2021 542-551*
- Design of Observer-Based Event-Triggered Fuzzy ISMC for T-S Fuzzy Model and its Application to PMSG. *Mani, P., +, TSMC April 2021 2221-2231*
- Design of Output-Based Finite-Time Convergent Composite Controller for a Class of Perturbed Second-Order Nonlinear Systems. *Zhu, W., +, TSMC Nov. 2021 6768-6778*
- Design of Sliding-Mode-Based Control for Nonlinear Systems With Mixed-Delays and Packet Losses Under Uncertain Missing Probability. *Hu, J., +, TSMC May 2021 3217-3228*
- Dissipativity Analysis of Switched Gene Regulatory Networks Actuated by Persistent Dwell-Time Switching Strategy. *Shen, H., +, TSMC Sept. 2021 5535-5546*
- Dissipativity-Based Asynchronous Control for 2-D Markov Jump Systems in Continuous-Time Domain. *Shen, Y., +, TSMC Sept. 2021 5349-5356*
- Dissipativity-Based Two-Dimensional Control and Filtering for a Class of Switched Systems. *Yang, R., +, TSMC May 2021 2737-2750*
- Distributed Containment Control of MIMO Pure-Feedback Multiagent Systems Using Filter-Driven-Approximation Approach. *Choi, Y.H., +, TSMC Sept. 2021 5490-5502*
- Distributed Containment Maneuvering of Uncertain Multiagent Systems in MIMO Strict-Feedback Form. *Zhang, Y., +, TSMC Feb. 2021 1354-1364*
- Distributed Continuous-Time Optimization of Second-Order Multiagent Systems With Nonconvex Input Constraints. *Mo, L., +, TSMC Oct. 2021 6404-6413*

- Distributed Control of Networked Nonlinear Systems via Interconnected Takagi–Sugeno Fuzzy Systems With Nonlinear Consequent. *Araujo, R.F., +, TSMC Aug. 2021 4858-4867*
- Distributed Lyapunov-Based Model Predictive Formation Tracking Control for Autonomous Underwater Vehicles Subject to Disturbances. *Wei, H., +, TSMC Aug. 2021 5198-5208*
- Distributed Optimal Consensus Control for a Class of Uncertain Nonlinear Multiagent Networks With Disturbance Rejection Using Adaptive Technique. *Wang, D., +, TSMC July 2021 4389-4399*
- Distributed Optimal Observer Design of Networked Systems via Adaptive Critic Design. *Fu, H., +, TSMC Nov. 2021 6976-6985*
- Distributed Secure Platoon Control of Connected Vehicles Subject to DoS Attack: Theory and Application. *Zhang, D., +, TSMC Nov. 2021 7269-7278*
- Distributed-Observer-Based Nash Equilibrium Seeking Algorithm for Quadratic Games With Nonlinear Dynamics. *Huang, B., +, TSMC Nov. 2021 7260-7268*
- Dwell-Time-Based Exponential Stabilization of Switched Positive Systems With Actuator Saturation. *Ma, R., +, TSMC Dec. 2021 7685-7691*
- Echo State Network-Based Decentralized Control of Continuous-Time Nonlinear Large-Scale Interconnected Systems. *Zhang, H., +, TSMC Oct. 2021 6293-6303*
- Estimating Minimal Domains of Attraction for Uncertain Nonlinear Systems. *Wang, S., +, TSMC Dec. 2021 7776-7787*
- Estimation for Fuzzy Semi-Markov Jump Systems With Indirectly Accessible Mode Information and Nonideal Data Transmission. *Cai, B., +, TSMC July 2021 4016-4027*
- Event-Based Formation Coordinated Control for Multiple Spacecraft Under Communication Constraints. *Hu, Q., +, TSMC May 2021 3168-3179*
- Event-Driven Fault Detection for Discrete-Time Interval Type-2 Fuzzy Systems. *Pan, Y., +, TSMC Aug. 2021 4959-4968*
- Event-Triggered H_∞ Filtering for Networked Switched Systems With Packet Disorders. *Qi, Y., +, TSMC May 2021 2847-2859*
- Event-Triggered Model-Free Adaptive Control. *Lin, N., +, TSMC June 2021 3358-3369*
- Event-Triggered Security Output Feedback Control for Networked Interconnected Systems Subject to Cyber-Attacks. *Gu, Z., +, TSMC Oct. 2021 6197-6206*
- Event-Triggered Sliding Mode Control of Switched Neural Networks With Mode-Dependent Average Dwell Time. *Yan, H., +, TSMC Feb. 2021 1233-1243*
- Exponential Stability of Markovian Jumping Systems via Adaptive Sliding Mode Control. *Xu, C., +, TSMC Feb. 2021 954-964*
- Exponentially Stabilizing Observer-Based Feedback Control of a Sampled-Data Linear Parabolic Multiple-Input–Multiple-Output PDE. *Wang, J., TSMC Sept. 2021 5742-5751*
- Extended Dissipativity Performance of High-Speed Train Including Actuator Faults and Probabilistic Time-Delays Under Resilient Reliable Control. *Cao, J., +, TSMC June 2021 3808-3819*
- Fault-Tolerant Control for Dynamic Positioning Vessel With Thruster Faults Based on the Neural Modified Extended State Observer. *Yu, W., +, TSMC Sept. 2021 5905-5917*
- Fault-Tolerant Fuzzy Formation Control for a Class of Nonlinear Multiagent Systems Under Directed and Switching Topology. *Deng, C., +, TSMC Sept. 2021 5456-5465*
- Finite-Time Dissipative Synchronization for Markovian Jump Generalized Inertial Neural Networks With Reaction–Diffusion Terms. *Song, X., +, TSMC June 2021 3650-3661*
- Finite-Time Stabilization of High-Order Stochastic Nonlinear Systems With Asymmetric Output Constraints. *Fang, L., +, TSMC Nov. 2021 7201-7213*
- Finite-Time State Estimation for Delayed Neural Networks With Redundant Delayed Channels. *Zhao, Z., +, TSMC Jan. 2021 441-451*
- Finite-Time Synchronization for Switched Neural Networks via Quantized Feedback Control. *Guan, C., +, TSMC May 2021 2873-2884*
- Finite-Time Synchronization of Fractional-Order Complex-Variable Dynamic Networks. *Hou, T., +, TSMC July 2021 4297-4307*
- Finite-Time Synchronization of Memristive Neural Networks With Fractional-Order. *Yang, S., +, TSMC June 2021 3739-3750*
- Finite-Time Synchronization of Memristor-Based Recurrent Neural Networks With Inertial Items and Mixed Delays. *Lu, Z., +, TSMC May 2021 2701-2711*
- Fixed-Time Synchronization of Second-Order MNNs in Quaternion Field. *Wei, R., +, TSMC June 2021 3587-3598*
- Force Sensorless Admittance Control for Teleoperation of Uncertain Robot Manipulator Using Neural Networks. *Yang, C., +, TSMC May 2021 3282-3292*
- Further Results on Fixed-Time Stabilization and Tracking Control of a Marine Surface Ship Subjected to Output Constraints. *Zhang, Z., +, TSMC Sept. 2021 5300-5310*
- Fuzzy Adaptive Fault-Tolerant Control of Fractional-Order Nonlinear Systems. *Li, Y., +, TSMC March 2021 1372-1379*
- Fuzzy Adaptive Tracking Control for State Constraint Switched Stochastic Nonlinear Systems With Unstable Inverse Dynamics. *Wu, W., +, TSMC Sept. 2021 5522-5534*
- Fuzzy Sampled-Data Control for DFIG-Based Wind Turbine With Stochastic Actuator Failures. *Sharmila, V., +, TSMC April 2021 2199-2211*
- Fuzzy-Affine-Model-Based Output Feedback Dynamic Sliding Mode Controller Design of Nonlinear Systems. *Ji, W., +, TSMC March 2021 1652-1661*
- Global Consensus of Positive Edge System With Sector Input Nonlinearities. *Wu, H., +, TSMC July 2021 4057-4066*
- Global Social Cost Minimization With Possibly Nonconvex Objective Functions: An Extremum Seeking-Based Approach. *Ye, M., +, TSMC Dec. 2021 7413-7422*
- Gradient Descent Algorithm-Based Adaptive NN Control Design for an Induction Motor. *Yang, X., +, TSMC Feb. 2021 1027-1034*
- Hidden Markov Model Based Fault Detection for Networked Singularly Perturbed Systems. *Wan, X., +, TSMC Oct. 2021 6445-6456*
- HMM-Based Asynchronous Controller Design of Markovian Jumping Lur'e Systems Within a Finite-Time Interval. *Nie, R., +, TSMC Nov. 2021 6885-6891*
- Hybrid PD-Fuzzy and PD Controllers for Trajectory Tracking of a Quadrotor Unmanned Aerial Vehicle: Autopilot Designs and Real-Time Flight Tests. *Santoso, F., +, TSMC March 2021 1817-1829*
- Improved Stability Criteria for Discrete-Time Switched T–S Fuzzy Systems. *Fei, Z., +, TSMC Feb. 2021 712-720*
- Impulsive Stabilization of Nonlinear Time-Delay System With Input Saturation via Delay-Dependent Polytopic Approach. *Li, H., +, TSMC Nov. 2021 7087-7098*
- Input–Output Finite-Time Estimation for Complex Networks With Switching Topology Under Dynamic Event-Triggered Transmission. *Sang, H., +, TSMC Oct. 2021 6513-6522*
- Input–Output Finite-Time Reliable Static Output Control of Time-Varying System With Input Delay. *Chen, M., +, TSMC Feb. 2021 1334-1344*
- Input–Output Finite-Time Sliding-Mode Control for T–S Fuzzy Systems With Application. *Qi, W., +, TSMC Sept. 2021 5446-5455*
- Input-to-State Stability of Nonlinear Systems Using Observer-Based Event-Triggered Impulsive Control. *Li, X., +, TSMC Nov. 2021 6892-6900*
- Integrated Synchronization and Anti-Disturbance Control Design for Fuzzy Model-Based Multiweighted Complex Network. *Kaviarasan, B., +, TSMC Oct. 2021 6330-6341*
- Intelligent Leader-Following Consensus Formation Control Using Recurrent Neural Networks for Small-Size Unmanned Helicopters. *Kuo, C., +, TSMC Feb. 2021 1288-1301*
- Intermittent Control Strategy for Synchronization Analysis of Time-Varying Complex Dynamical Networks. *Wu, Y., +, TSMC May 2021 3251-3262*
- Local Stabilization of Continuous-Time T–S Fuzzy Systems With Partly Measurable Premise Variables and Time-Varying Delay. *Wu, Y., +, TSMC Jan. 2021 326-338*
- LPV Scheme for Robust Adaptive Output Feedback Consensus of Lipschitz Multiagents Using Lipschitz Nonlinear Protocol. *Rehman, A.u., +, TSMC Nov. 2021 7040-7050*

- Lyapunov Control Method for Mismatched Uncertainty and Gain Variation Compensation in Switched Systems. *Aghababa, M.P., TSMC July 2021 4227-4237*
- Model-Based Adaptive Control of Transfemoral Prostheses: Theory, Simulation, and Experiments. *Azimi, V., +, TSMC Feb. 2021 1174-1191*
- Multiple ψ -Type Stability of Cohen–Grossberg Neural Networks With Unbounded Time-Varying Delays. *Zhang, F., +, TSMC Jan. 2021 521-531*
- Neural Integral Backstepping Hierarchical Sliding Mode Control for a Ridable Ballbot Under Uncertainties and Input Saturation. *Do, V., +, TSMC Nov. 2021 7214-7227*
- Neural Network-Based Adaptive Fault-Tolerant Control for Markovian Jump Systems With Nonlinearity and Actuator Faults. *Yang, H., +, TSMC June 2021 3687-3698*
- Neural Network-Based Sampled-Data Control for Switched Uncertain Nonlinear Systems. *Li, S., +, TSMC Sept. 2021 5437-5445*
- Neural-Based Decentralized Adaptive Finite-Time Control for Nonlinear Large-Scale Systems With Time-Varying Output Constraints. *Du, P., +, TSMC May 2021 3136-3147*
- Neuro-Fuzzy-Based Adaptive Dynamic Surface Control for Fractional-Order Nonlinear Strict-Feedback Systems With Input Constraint. *Song, S., +, TSMC June 2021 3575-3586*
- New Stability Conditions for Switched Linear Systems: A Reverse-Timer-Dependent Multiple Discontinuous Lyapunov Function Approach. *Li, Y., +, TSMC Oct. 2021 6564-6575*
- Nonfragile Consensus of Multiagent Systems Based on Memory Sampled-Data Control. *Ge, C., +, TSMC Jan. 2021 391-399*
- Nonfragile Sampled-Data Filtering of Uncertain Fuzzy Systems With Time-Varying Delays. *Luo, J., +, TSMC Aug. 2021 4993-5004*
- Nonlinear Control of Quadrotor for Fault Tolerance: A Total Failure of One Actuator. *Wu, Y., +, TSMC May 2021 2810-2820*
- Observed-Based Finite-Time Control of Nonlinear Semi-Markovian Jump Systems With Saturation Constraint. *Tian, Y., +, TSMC Nov. 2021 6639-6649*
- Observer-Based Adaptive Event-Triggered Control for Nonstrict-Feedback Nonlinear Systems With Output Constraint and Actuator Failures. *Cao, L., +, TSMC March 2021 1380-1391*
- Observer-Based Finite-Time Control for Distributed Path Maneuvering of Underactuated Unmanned Surface Vehicles With Collision Avoidance and Connectivity Preservation. *Gu, N., +, TSMC Aug. 2021 5105-5115*
- Output Consensus of Multiagent Systems Based on PDEs With Input Constraint: A Boundary Control Approach. *Yang, C., +, TSMC Jan. 2021 370-377*
- Output-Based Containment Control for Uncertain Nonaffine Nonlinear Multiagent Systems. *Yang, Y., +, TSMC Oct. 2021 5992-6002*
- Output-Feedback Adaptive Control of Nonlinear Systems With Input–Output-Dependent Lower-Triangular Growth Rate: A Logic-Based Switching Approach. *Huang, C., +, TSMC Aug. 2021 4804-4813*
- Output-Feedback-Based Consensus Control Without Continuous Interagent Communication. *Shih, C., +, TSMC May 2021 3240-3250*
- Partial-Nodes-Based Scalable H_∞ -Consensus Filtering With Censored Measurements Over Sensor Networks. *Han, F., +, TSMC March 2021 1892-1903*
- Passivity-Based Fuzzy ISMC for Wind Energy Conversion Systems With PMSG. *Subramaniam, R., +, TSMC April 2021 2212-2220*
- Policy-Iteration-Based Learning for Nonlinear Player Game Systems With Constrained Inputs. *Mu, C., +, TSMC Oct. 2021 6488-6502*
- Quantized Decentralized Adaptive Neural Network PI Tracking Control for Uncertain Interconnected Nonlinear Systems With Dynamic Uncertainties. *Sun, H., +, TSMC May 2021 3111-3124*
- Quantized Static Output Feedback Fuzzy Tracking Control for Discrete-Time Nonlinear Networked Systems With Asynchronous Event-Triggered Constraints. *Li, Z., +, TSMC June 2021 3820-3831*
- Quasi-Synchronization of Delayed Memristive Neural Networks via a Hybrid Impulsive Control. *Zhou, Y., +, TSMC March 2021 1954-1965*
- Receding Horizon Synchronization of Delayed Neural Networks Using a Novel Inequality on Quadratic Polynomial Functions. *Lu, C., +, TSMC Oct. 2021 6085-6095*
- Reduced Adaptive Fuzzy Tracking Control for High-Order Stochastic Nonstrict Feedback Nonlinear System With Full-State Constraints. *Sun, W., +, TSMC March 2021 1496-1506*
- Relay Tracking Controller Design for Multiagent Systems With Varying Number of Agents. *Dong, L., +, TSMC Oct. 2021 6147-6158*
- Reliable Fuzzy H_∞ Control for Permanent Magnet Synchronous Motor Against Stochastic Actuator Faults. *Vadivel, R., +, TSMC April 2021 2232-2245*
- Repetitive Learning Control for Control-Affine Systems With Time Delays. *Li, H., +, TSMC Aug. 2021 5142-5152*
- Reset Control for Consensus of Multiagent Systems With Asynchronous Sampling. *Zhao, G., +, TSMC Aug. 2021 4911-4919*
- Resilient H_∞ Filtering for Event-Triggered Networked Systems Under Nonperiodic DoS Jamming Attacks. *Hu, S., +, TSMC March 2021 1392-1403*
- RISE-Based Integrated Motion Control of Autonomous Ground Vehicles With Asymptotic Prescribed Performance. *Hu, C., +, TSMC Sept. 2021 5336-5348*
- Robust Adaptive Control for State-Constrained Nonlinear Systems With Input Saturation and Unknown Control Direction. *Wu, Y., +, TSMC Feb. 2021 1192-1202*
- Robust Adaptive Neural Control of Nonminimum Phase Hypersonic Vehicle Model. *Xu, B., +, TSMC Feb. 2021 1107-1115*
- Robust Exponential Stability Analysis for Stochastic Systems With Actuator Faults Using Improved Weighted Relaxed Integral Inequality. *Gnanaswaran, N., +, TSMC June 2021 3346-3357*
- Robust Exponential Synchronization for Memristor Neural Networks With Nonidentical Characteristics by Pinning Control. *Li, Y., +, TSMC March 2021 1966-1980*
- Robust Fixed-Time Consensus Tracking Control of High-Order Multiple Nonholonomic Systems. *Shi, S., +, TSMC March 2021 1869-1880*
- Robust H_∞ Sliding Mode Controller Design of a Class of Time-Delayed Discrete Conic-Type Nonlinear Systems. *He, S., +, TSMC Feb. 2021 885-892*
- Robust Resilient Control Based on Multi-Approximator for the Uncertain Turbofan System With Unmeasured States and Disturbances. *Li, Y., +, TSMC Oct. 2021 6040-6049*
- Sampled-Based Consensus for Nonlinear Multiagent Systems With Deception Attacks: The Decoupled Method. *Cui, Y., +, TSMC Jan. 2021 561-573*
- Second-Order Sliding Mode Controller Design Subject to an Upper-Triangular Structure. *Mei, K., +, TSMC Jan. 2021 497-507*
- Security Control for T–S Fuzzy Systems With Adaptive Event-Triggered Mechanism and Multiple Cyber-Attacks. *Liu, J., +, TSMC Oct. 2021 6544-6554*
- Skill Learning From Human Demonstrations Using Dynamical Regressive Models for Multitask Applications. *Dutta, S., +, TSMC Jan. 2021 659-672*
- Sliding Mode Control for Markov Jump Systems With Delays via Asynchronous Approach. *Fang, M., +, TSMC May 2021 2916-2925*
- Sliding-Mode Observer-Based Fault Reconstruction for T-S Fuzzy Descriptor Systems. *Li, R., +, TSMC Aug. 2021 5046-5055*
- Small-Gain Technique-Based Adaptive Neural Output-Feedback Fault-Tolerant Control of Switched Nonlinear Systems With Unmodeled Dynamics. *Ma, L., +, TSMC Nov. 2021 7051-7062*
- Stability Analysis for Input Saturated Discrete-Time Switched Systems With Average Dwell-Time. *Wang, Q., +, TSMC Jan. 2021 412-419*
- Stability Analysis of Complex Network Control System With Dynamical Topology and Delays. *Li, M., +, TSMC Nov. 2021 7228-7237*
- Stability Analysis of Systems With Time-Varying Delay via Improved Lyapunov–Krasovskii Functionals. *Long, F., +, TSMC April 2021 2457-2466*
- Stability and ℓ_1 -Gain Analysis for Switched Positive Systems With MDADT Based on Quasi-Time-Dependent Approach. *Li, X., +, TSMC Sept. 2021 5846-5854*
- Stability and Stabilization for T–S Fuzzy Large-Scale Interconnected Power System With Wind Farm via Sampled-Data Control. *Shanmugam, L., +, TSMC April 2021 2134-2144*
- Stability Criteria for Impulsive Stochastic Functional Differential Systems With Distributed-Delay Dependent Impulsive Effects. *Hu, W., +, TSMC March 2021 2027-2032*

- Stabilization of Networked Control Systems With Hybrid-Driven Mechanism and Probabilistic Cyber Attacks. *Liu, J., +, TSMC Feb. 2021 943-953*
- Stable Adaptive Controller Based on Generalized Regression Neural Networks and Sliding Mode Control for a Class of Nonlinear Time-Varying Systems. *Al-Mahasneh, A.J., +, TSMC April 2021 2525-2535*
- Strict Lyapunov Functions for Homogeneous Time-Varying Systems. *Zhang, B., +, TSMC March 2021 1994-2002*
- Synchronization on Lur'e Cluster Networks With Proportional Delay: Impulsive Effects Method. *Tang, Z., +, TSMC July 2021 4555-4565*
- Takagi–Sugeno Model-Based Reliable Sliding Mode Control of Descriptor Systems With Semi-Markov Parameters: Average Dwell Time Approach. *Jiang, B., +, TSMC March 2021 1549-1558*
- The Set-Invariance Paradigm in Fuzzy Adaptive DSC Design of Large-Scale Nonlinear Input-Constrained Systems. *Ly, M., +, TSMC Feb. 2021 1035-1045*
- Threshold-Function-Dependent Quasi-Synchronization of Delayed Memristive Neural Networks via Hybrid Event-Triggered Control. *Yan, Z., +, TSMC Nov. 2021 6712-6722*
- Time-Scale Redesign-Based Saturated Controller Synthesis for a Class of MIMO Nonlinear Systems. *Rayguru, M.M., +, TSMC Aug. 2021 4681-4692*
- Time-Varying Formation for General Linear Multiagent Systems Over Directed Topologies: A Fully Distributed Adaptive Technique. *Zhao, Y., +, TSMC Jan. 2021 532-541*
- Twofold Sliding Controller Design for Uncertain Switched Nonlinear Systems. *Aghababa, M.P., TSMC Feb. 2021 1203-1214*
- Vibration and Position Control of Overhead Crane With Three-Dimensional Variable Length Cable Subject to Input Amplitude and Rate Constraints. *Xing, X., +, TSMC July 2021 4127-4138*
- Visual Servoing of a Flexible Aerial Refueling Boom With an Eye-in-Hand Camera. *Cui, L., +, TSMC Oct. 2021 6282-6292*
- Visual Trajectory Tracking of Wheeled Mobile Robots With Uncalibrated Camera Extrinsic Parameters. *Zhang, K., +, TSMC Nov. 2021 7191-7200*

M

Machine control

- Data-Driven Output-Feedback LQ Secure Control for Unknown Cyber-Physical Systems Against Sparse Actuator Attacks. *Shen, X., +, TSMC Sept. 2021 5708-5720*
- Design of Interval Type-2 Fuzzy-Based Sampled-Data Controller for Nonlinear Systems Using Novel Fuzzy Lyapunov Functional and its Application to PMSM. *Shanmugam, L., +, TSMC Jan. 2021 542-551*
- Design of Observer-Based Event-Triggered Fuzzy ISMC for T–S Fuzzy Model and its Application to PMSG. *Mani, P., +, TSMC April 2021 2221-2231*
- Extended State Observer-Based Data-Driven Iterative Learning Control for Permanent Magnet Linear Motor With Initial Shifts and Disturbances. *Hui, Y., +, TSMC March 2021 1881-1891*
- Reliable Fuzzy H_∞ Control for Permanent Magnet Synchronous Motor Against Stochastic Actuator Faults. *Vadivel, R., +, TSMC April 2021 2232-2245*

Machine learning

- AUC-Based Extreme Learning Machines for Supervised and Semi-Supervised Imbalanced Classification. *Wang, G., +, TSMC Dec. 2021 7919-7930*
- YSUY: Your Smartphone Understands You—Using Machine Learning to Address Fundamental Human Needs. *Akmandor, A.O., +, TSMC Dec. 2021 7553-7568*

Machine vision

- Nonlinear Stochastic Estimators on the Special Euclidean Group SE(3) Using Uncertain IMU and Vision Measurements. *Hashim, H.A., +, TSMC Dec. 2021 7587-7600*

Machining

- A Heterogeneous Data Analytics Framework for RFID-Enabled Factories. *Zhong, R.Y., +, TSMC Sept. 2021 5567-5576*

Magnetic levitation

- Variable Cut-Off Frequency Algorithm-Based Nonlinear Position Controller for Magnetic Levitation System Applications. *Kim, S., +, TSMC July 2021 4599-4605*

Maintenance engineering

- Closing-Down Optimization for Single-Arm Cluster Tools Subject to Wafer Residency Time Constraints. *Qiao, Y., +, TSMC Nov. 2021 6792-6807*
- Equipment Health Assessment Based on Improved Incremental Support Vector Data Description. *Zhang, L., +, TSMC May 2021 3205-3216*
- System-Level Prognostics Under Mission Profile Effects Using Inoperability Input–Output Model. *Tamssaouet, F., +, TSMC Aug. 2021 4659-4669*

Man-machine systems

- Visual Human–Computer Interactions for Intelligent Vehicles and Intelligent Transportation Systems: The State of the Art and Future Directions. *Wang, X., +, TSMC Jan. 2021 253-265*

Manifold learning

- Discriminative Face Hallucination via Locality-Constrained and Category Embedding Representation. *Liu, L., +, TSMC Dec. 2021 7314-7325*

Manipulator dynamics

- Asymmetric Bounded Neural Control for an Uncertain Robot by State Feedback and Output Feedback. *Kong, L., +, TSMC March 2021 1735-1746*
- Force Sensorless Admittance Control for Teleoperation of Uncertain Robot Manipulator Using Neural Networks. *Yang, C., +, TSMC May 2021 3282-3292*
- Global Finite Time Active Disturbance Rejection Control for Parallel Manipulators With Unknown Bounded Uncertainties. *Nguyen, V., +, TSMC Dec. 2021 7838-7849*
- Neural Networks-Based Fault Tolerant Control of a Robot via Fast Terminal Sliding Mode. *Zhang, S., +, TSMC July 2021 4091-4101*
- New Joint-Drift-Free Scheme Aided with Projected ZNN for Motion Generation of Redundant Robot Manipulators Perturbed by Disturbances. *Lu, H., +, TSMC Sept. 2021 5639-5651*
- Skill Learning From Human Demonstrations Using Dynamical Regressive Models for Multitask Applications. *Dutta, S., +, TSMC Jan. 2021 659-672*
- Trajectory Planning of Free-Floating Space Manipulators With Spacecraft Attitude Stabilization and Manipulability Optimization. *Lu, X., +, TSMC Dec. 2021 7346-7362*
- Two Hybrid Multiobjective Motion Planning Schemes Synthesized by Recurrent Neural Networks for Wheeled Mobile Robot Manipulators. *Zhang, Z., +, TSMC May 2021 3270-3281*

Manipulators

- A Linear Time-Varying Model Predictive Control-Based Motion Cueing Algorithm for Hexapod Simulation-Based Motion Platform. *Qazani, M.R.C., +, TSMC Oct. 2021 6096-6110*
- Adaptive Fuzzy Full-State and Output-Feedback Control for Uncertain Robots With Output Constraint. *Yu, X., +, TSMC Nov. 2021 6994-7007*
- Adaptive High-Order Terminal Sliding Mode Control Based on Time Delay Estimation for the Robotic Manipulators With Backlash Hysteresis. *Ahmed, S., +, TSMC Feb. 2021 1128-1137*
- High-Precision Attitude Tracking Control of Space Manipulator System Under Multiple Disturbances. *Qiao, J., +, TSMC July 2021 4274-4284*
- Pose Synchronization of Multiple Networked Manipulators Using Nonsingular Terminal Sliding Mode Control. *Shen, H., +, TSMC Dec. 2021 7497-7509*
- Reinforcement Learning Control of a Flexible Two-Link Manipulator: An Experimental Investigation. *He, W., +, TSMC Dec. 2021 7326-7336*
- Robust Stabilization of High-Order Nonlinear Systems With Unknown Sensitivities and Applications in Humanoid Robot Manipulation. *Sun, Z., +, TSMC July 2021 4409-4416*
- Skill Learning From Human Demonstrations Using Dynamical Regressive Models for Multitask Applications. *Dutta, S., +, TSMC Jan. 2021 659-672*
- Stepsize Interval Confirmation of General Four-Step DTZN Algorithm Illustrated With Future Quadratic Programming and Tracking Control of Manipulators. *Guo, J., +, TSMC March 2021 1662-1670*

Manufacturing data processing

- A Heterogeneous Data Analytics Framework for RFID-Enabled Factories. *Zhong, R.Y., +, TSMC Sept. 2021 5567-5576*

Manufacturing systems

- Blockchain-Secured Smart Manufacturing in Industry 4.0: A Survey. *Leng, J., +, TSMC Jan. 2021 237-252*
- Deadlock Prevention Controller for Automated Manufacturing Systems Modeled by S⁴PR. *Feng, Y., +, TSMC Dec. 2021 7403-7412*
- Decision on Maximal Permissiveness of Linear Constraints via Structural Analysis of a Subclass of Petri Nets. *Chen, H., +, TSMC July 2021 4347-4358*

Marine control

- Adaptive Path Following Control of Unmanned Surface Vehicles Considering Environmental Disturbances and System Constraints. *Liu, Z., +, TSMC Jan. 2021 339-353*
- Design and Control of a Two-Motor-Actuated Tuna-Inspired Robot System. *Du, S., +, TSMC Aug. 2021 4670-4680*
- Fault-Tolerant Control for Dynamic Positioning Vessel With Thruster Faults Based on the Neural Modified Extended State Observer. *Yu, W., +, TSMC Sept. 2021 5905-5917*
- Further Results on Fixed-Time Stabilization and Tracking Control of a Marine Surface Ship Subjected to Output Constraints. *Zhang, Z., +, TSMC Sept. 2021 5300-5310*

Marine engineering

- Tracking Controllers to Chase a Target Using Multiple Autonomous Underwater Vehicles Measuring the Sound Emitted From the Target. *Kim, J., TSMC July 2021 4579-4587*

Marine robots

- Curved Path Following for Unmanned Surface Vehicles With Heading Amendment. *Qu, Y., +, TSMC July 2021 4183-4192*
- Design and Control of a Two-Motor-Actuated Tuna-Inspired Robot System. *Du, S., +, TSMC Aug. 2021 4670-4680*

Marine vehicles

- Adaptive Path Following Control of Unmanned Surface Vehicles Considering Environmental Disturbances and System Constraints. *Liu, Z., +, TSMC Jan. 2021 339-353*

Markov processes

- H_∞ Output Anti-Disturbance Control of Stochastic Markov Jump Systems With Multiple Disturbances. *Shen, M., +, TSMC Dec. 2021 7633-7643*
- H_∞ Filtering for Nonhomogeneous Markovian Jump Repeated Scalar Nonlinear Systems With Multiplicative Noises and Partially Mode-Dependent Characterization. *Hua, M., +, TSMC May 2021 3180-3192*
- A Fuzzy Lyapunov Function Approach to Positive L_1 Observer Design for Positive Fuzzy Semi-Markovian Switching Systems With Its Application. *Qi, W., +, TSMC Feb. 2021 775-785*
- Adaptive Event-Triggered and Double-Quantized Consensus of Leader-Follower Multiagent Systems With Semi-Markovian Jump Parameters. *Gong, C., +, TSMC Sept. 2021 5867-5879*
- Adaptive Event-Triggered Fault Detection Scheme for Semi-Markovian Jump Systems With Output Quantization. *Zhang, L., +, TSMC April 2021 2370-2381*
- Adaptive Neural Sliding Mode Control for Singular Semi-Markovian Jump Systems Against Actuator Attacks. *Cao, Z., +, TSMC March 2021 1523-1533*
- Adaptive Neural Sliding Mode Control of Markov Jump Systems Subject to Malicious Attacks. *Lin, W., +, TSMC Dec. 2021 7870-7881*
- Admissibilization for Implicit Jump Systems With Mixed Retarded Delays Based on Reciprocally Convex Integral Inequality and Barbalat's Lemma. *Zhuang, G., +, TSMC Nov. 2021 6808-6818*
- An N -State Markovian Jumping Particle Swarm Optimization Algorithm. *Rahman, I.U., +, TSMC Nov. 2021 6626-6638*
- An Improved Result on Sampled-Data Synchronization of Markov Jump Delayed Neural Networks. *Shen, H., +, TSMC June 2021 3608-3616*
- Asynchronous Fault Detection and Isolation for Markov Jump Systems With Actuator Failures Under Networked Environment. *Long, Y., +, TSMC June 2021 3477-3487*
- Asynchronous Finite-Time Filtering of Markov Jump Nonlinear Systems and Its Applications. *Ren, H., +, TSMC March 2021 1725-1734*
- Asynchronous Output Feedback Control for a Class of Conic-Type Nonlinear Hidden Markov Jump Systems Within a Finite-Time Interval. *Cheng, P., +, TSMC Dec. 2021 7644-7651*

- Containment Control of Semi-Markovian Multiagent Systems With Switching Topologies. *Liang, H., +, TSMC June 2021 3889-3899*
- Design and Analysis of a Human-Machine Interaction System for Researching Human's Dynamic Emotion. *Sun, X., +, TSMC Oct. 2021 6111-6121*
- Efficient Batch-Mode Reinforcement Learning Using Extreme Learning Machines. *Liu, J., +, TSMC June 2021 3664-3677*
- Estimation for Fuzzy Semi-Markov Jump Systems With Indirectly Accessible Mode Information and Nonideal Data Transmission. *Cai, B., +, TSMC July 2021 4016-4027*
- Exponential Stability of Markovian Jumping Systems via Adaptive Sliding Mode Control. *Xu, C., +, TSMC Feb. 2021 954-964*
- Extended Dissipativity-Based Control for Hidden Markov Jump Singularly Perturbed Systems Subject to General Probabilities. *Li, F., +, TSMC Sept. 2021 5752-5761*
- Fuzzy Encoded Markov Chains: Overview, Observer Theory, and Applications. *Li, N., +, TSMC Jan. 2021 116-130*
- Fuzzy Sampled-Data Control for DFIG-Based Wind Turbine With Stochastic Actuator Failures. *Sharmila, V., +, TSMC April 2021 2199-2211*
- Hidden Markov Model Based Fault Detection for Networked Singularly Perturbed Systems. *Wan, X., +, TSMC Oct. 2021 6445-6456*
- HMM-Based Asynchronous Controller Design of Markovian Jumping Lur'e Systems Within a Finite-Time Interval. *Nie, R., +, TSMC Nov. 2021 6885-6891*
- Moving Horizon Estimation of Networked Nonlinear Systems With Random Access Protocol. *Zou, L., +, TSMC May 2021 2937-2948*
- Neural Network-Based Adaptive Fault-Tolerant Control for Markovian Jump Systems With Nonlinearity and Actuator Faults. *Yang, H., +, TSMC June 2021 3687-3698*
- Nonfragile Observer-Based Control for Markovian Jump Systems Subject to Asynchronous Modes. *Tao, J., +, TSMC June 2021 3533-3540*
- On the Identifiability of the Influence Model for Stochastic Spatiotemporal Spread Processes. *He, C., +, TSMC June 2021 3876-3888*
- Optimal Control and Stabilization for Networked Systems With Input Delay and Markovian Packet Losses. *Li, H., +, TSMC July 2021 4453-4465*
- Reliability Modeling for Sparsely Connected Homogeneous Multistate Consecutive-k-Out-of-n: GSystems. *Gao, H., +, TSMC March 2021 1844-1854*
- Resilient State Estimation of Cyber-Physical System With Multichannel Transmission Under DoS Attack. *Yuan, H., +, TSMC Nov. 2021 6926-6937*
- Sliding Mode Control for Markov Jump Systems With Delays via Asynchronous Approach. *Fang, M., +, TSMC May 2021 2916-2925*
- Sliding-Mode Control for Slow-Sampling Singularly Perturbed Systems Subject to Markov Jump Parameters. *Wang, J., +, TSMC Dec. 2021 7579-7586*
- State Estimation for Networked Systems With Markov Driven Transmission and Buffer Constraint. *Xu, Y., +, TSMC Dec. 2021 7727-7734*
- Takagi-Sugeno Model-Based Reliable Sliding Mode Control of Descriptor Systems With Semi-Markov Parameters: Average Dwell Time Approach. *Jiang, B., +, TSMC March 2021 1549-1558*

Mars

- Hybrid Disturbance Observer-Based Anti-Disturbance Composite Control With Applications to Mars Landing Mission. *Xu, J., +, TSMC May 2021 2885-2893*

Mathematical analysis

- Control of Discrete-Time Stochastic Systems With Packet Loss by Event-Triggered Approach. *Hu, Z., +, TSMC Feb. 2021 755-764*

Mathematical model

- Event-Triggered Iterative Learning Containment Control of Model-Free Multiagent Systems. *Hua, C., +, TSMC Dec. 2021 7719-7726*
- Fractional-Order Finite-Time Super-Twisting Sliding Mode Control of Micro Gyroscope Based on Double-Loop Fuzzy Neural Network. *Fei, J., +, TSMC Dec. 2021 7692-7706*
- Minimum Dominating Set of Multiplex Networks: Definition, Application, and Identification. *Zhao, D., +, TSMC Dec. 2021 7823-7837*
- Observer-Based Sampled-Data Model-Free Adaptive Control for Continuous-Time Nonlinear Nonaffine Systems With Input Rate Constraints. *Hui, Y., +, TSMC Dec. 2021 7813-7822*

Optimal SINR-Based DoS Attack Scheduling for Remote State Estimation via Adaptive Dynamic Programming Approach. *Liu, R., +, TSMC Dec. 2021 7622-7632*

Reinforcement Learning Control of a Flexible Two-Link Manipulator: An Experimental Investigation. *He, W., +, TSMC Dec. 2021 7326-7336*

Mathematical operators

Dual Models and Return Allocations for Consensus Building Under Weighted Average Operators. *Wu, Z., +, TSMC Nov. 2021 7164-7176*

Mathematics computing

Parametric NCP-Based Recurrent Neural Network Model: A New Strategy to Solve Fuzzy Nonconvex Optimization Problems. *Mansoori, A., +, TSMC April 2021 2592-2601*

Matrix algebra

H_∞ Filtering for Nonhomogeneous Markovian Jump Repeated Scalar Nonlinear Systems With Multiplicative Noises and Partially Mode-Dependent Characterization. *Hua, M., +, TSMC May 2021 3180-3192*

A Deep Latent Factor Model for High-Dimensional and Sparse Matrices in Recommender Systems. *Wu, D., +, TSMC July 2021 4285-4296*

A Prediction-Based Approach to Distributed Filtering With Missing Measurements and Communication Delays Through Sensor Networks. *Hu, J., +, TSMC Nov. 2021 7063-7074*

A Unified Scheme for Distance Metric Learning and Clustering via Rank-Reduced Regression. *Guo, W., +, TSMC Aug. 2021 5218-5229*

Adaptive Finite-Time Saturated Tracking Control for a Class of Partially Known Robots. *Hwang, C., +, TSMC Sept. 2021 5674-5685*

Adaptive Transition Probability Matrix-Based Parallel IMM Algorithm. *Xie, G., +, TSMC May 2021 2980-2989*

An Instance-Frequency-Weighted Regularization Scheme for Non-Negative Latent Factor Analysis on High-Dimensional and Sparse Data. *Luo, X., +, TSMC June 2021 3522-3532*

Asynchronous Stabilization of Boolean Control Networks With Stochastic Switched Signals. *Fang, M., +, TSMC April 2021 2425-2432*

Connection of Signed and Unsigned Networks Based on Solving Linear Dynamic Systems. *Meng, D., +, TSMC Aug. 2021 5174-5188*

Consensus of Multiagent Systems With Time-Varying Input Delay and Relative State Saturation Constraints. *Chu, H., +, TSMC Nov. 2021 6938-6944*

Consensus of One-Sided Lipschitz Multiagents Under Switching Topologies. *Razaq, M.A., +, TSMC March 2021 1485-1495*

Convergence of Distributed Accelerated Algorithm Over Unbalanced Directed Networks. *Li, H., +, TSMC Aug. 2021 5153-5164*

Couple-Group Consensus for Cooperative-Competitive Heterogeneous Multiagent Systems: Hybrid Adaptive and Pinning Methods. *Ji, L., +, TSMC Sept. 2021 5367-5376*

Distributed Diagnostic Problem Solving With Colored Behavioral Petri Nets. *Mancer, S., +, TSMC June 2021 3380-3391*

Efficient Body Motion Quantification and Similarity Evaluation Using 3-D Joints Skeleton Coordinates. *Aouaidjia, K., +, TSMC May 2021 2774-2788*

Event-Triggered Consensus of General Linear Multiagent Systems With Data Sampling and Random Packet Losses. *Wang, F., +, TSMC Feb. 2021 1313-1321*

Event-Triggered Control for Output Regulation of Probabilistic Logical Systems With Delays. *He, J., +, TSMC Nov. 2021 6842-6851*

Event-Triggered Model Predictive Control for Multiagent Systems With Communication Constraints. *Li, L., +, TSMC May 2021 3304-3316*

Finite-Time Dissipative Synchronization for Markovian Jump Generalized Inertial Neural Networks With Reaction-Diffusion Terms. *Song, X., +, TSMC June 2021 3650-3661*

Fuzzy Grey Choquet Integral for Evaluation of Multicriteria Decision Making Problems With Interactive and Qualitative Indices. *Tian, G., +, TSMC March 2021 1855-1868*

Impulsive Stabilization of Nonlinear Time-Delay System With Input Saturation via Delay-Dependent Polytopic Approach. *Li, H., +, TSMC Nov. 2021 7087-7098*

Input-Output Finite-Time Reliable Static Output Control of Time-Varying System With Input Delay. *Chen, M., +, TSMC Feb. 2021 1334-1344*

Integrated Synchronization and Anti-Disturbance Control Design for Fuzzy Model-Based Multiweighted Complex Network. *Kaviarasan, B., +, TSMC Oct. 2021 6330-6341*

Learning Graph Similarity With Large Spectral Gap. *Wu, Z., +, TSMC March 2021 1590-1600*

Necessary and Sufficient Conditions for Consensus in Fractional-Order Multiagent Systems via Sampled Data Over Directed Graph. *Su, H., +, TSMC April 2021 2501-2511*

Non-Negative Latent Factor Model Based on β -Divergence for Recommender Systems. *Xin, L., +, TSMC Aug. 2021 4612-4623*

Nonfragile Consensus of Multiagent Systems Based on Memory Sampled-Data Control. *Ge, C., +, TSMC Jan. 2021 391-399*

Optimizing Pinning Control of Complex Dynamical Networks Based on Spectral Properties of Grounded Laplacian Matrices. *Liu, H., +, TSMC Feb. 2021 786-796*

Partial-Nodes-Based Scalable H_∞ -Consensus Filtering With Censored Measurements Over Sensor Networks. *Han, F., +, TSMC March 2021 1892-1903*

Random Sleep Scheme-Based Distributed Optimization Algorithm Over Unbalanced Time-Varying Networks. *Li, H., +, TSMC Aug. 2021 5244-5253*

Receding Horizon Synchronization of Delayed Neural Networks Using a Novel Inequality on Quadratic Polynomial Functions. *Lu, C., +, TSMC Oct. 2021 6085-6095*

Sampled-Based Consensus for Nonlinear Multiagent Systems With Deception Attacks: The Decoupled Method. *Cui, Y., +, TSMC Jan. 2021 561-573*

Semiglobal Observer-Based Positive Scaled Edge-Consensus of Networked Discrete-Time Systems Under Actuator Saturation. *Sun, Y., +, TSMC July 2021 4543-4554*

Stability Analysis of Systems With Time-Varying Delay via Improved Lyapunov-Krasovskii Functionals. *Long, F., +, TSMC April 2021 2457-2466*

Stability-Oriented Droop Coefficients Region Identification for Inverters Within Weak Grid: An Impedance-Based Approach. *Wang, R., +, TSMC April 2021 2258-2268*

Stabilization and Finite-Time Stabilization of Probabilistic Boolean Control Networks. *Wang, L., +, TSMC March 2021 1559-1566*

Synchronization of Resilient Complex Networks Under Attacks. *Wang, P., +, TSMC Feb. 2021 1116-1127*

The Role of Reverse Edges on Consensus Performance of Chain Networks. *Hao, Y., +, TSMC March 2021 1757-1765*

Zero-Shot Learning Based on Multitask Extended Attribute Groups. *Wang, X., +, TSMC March 2021 2003-2011*

Matrix decomposition

A Fast Non-Negative Latent Factor Model Based on Generalized Momentum Method. *Luo, X., +, TSMC Jan. 2021 610-620*

A Sparse Dimensionality Reduction Approach Based on False Nearest Neighbors for Nonlinear Fault Detection. *Yi, J., +, TSMC Aug. 2021 4980-4992*

An Instance-Frequency-Weighted Regularization Scheme for Non-Negative Latent Factor Analysis on High-Dimensional and Sparse Data. *Luo, X., +, TSMC June 2021 3522-3532*

Latent Factor-Based Recommenders Relying on Extended Stochastic Gradient Descent Algorithms. *Luo, X., +, TSMC Feb. 2021 916-926*

Matrix inversion

New Noise-Tolerant Neural Algorithms for Future Dynamic Nonlinear Optimization With Estimation on Hessian Matrix Inversion. *Wei, L., +, TSMC April 2021 2611-2623*

Maximum likelihood estimation

Forward-Backward Smoothers With Finite Impulse Response Structure. *Vicente, A., +, TSMC Feb. 2021 765-774*

Inferring Network Structure and Estimating Dynamical Process From Binary-State Data via Logistic Regression. *Liu, Q., +, TSMC Aug. 2021 4639-4649*

Maximum principle

Multiobjective Dynamic Optimization of Cooperative Difference Games in Infinite Horizon. *Peng, C., +, TSMC Nov. 2021 6669-6680*

Mean square error methods

- Asymptotically Efficient Recursive Identification of FIR Systems With Binary-Valued Observations. *Zhang, H.*, +, *TSMC May 2021 2687-2700*
- Effects of Outliers on the Maximum Correntropy Estimation: A Robustness Analysis. *Chen, B.*, +, *TSMC June 2021 4007-4012*
- Logarithmic Hyperbolic Cosine Adaptive Filter and Its Performance Analysis. *Wang, S.*, +, *TSMC April 2021 2512-2524*
- Minimum Error Entropy Kalman Filter. *Chen, B.*, +, *TSMC Sept. 2021 5819-5829*
- Spatial Context Energy Curve-Based Multilevel 3-D Otsu Algorithm for Image Segmentation. *Bhandari, A.K.*, +, *TSMC May 2021 2760-2773*

Measurement errors

- Distributed Fusion Estimation for Multisensor Multirate Systems With Packet Dropout Compensations and Correlated Noises. *Tian, T.*, +, *TSMC Sept. 2021 5762-5772*

Measurement uncertainty

- Nonlinear Stochastic Estimators on the Special Euclidean Group SE(3) Using Uncertain IMU and Vision Measurements. *Hashim, H.A.*, +, *TSMC Dec. 2021 7587-7600*
- Observer-Based Interval Type-2 $L_2 - L_\infty/H_\infty$ Mixed Fuzzy Control for Uncertain Nonlinear Systems Under Measurement Outliers. *Zhang, Z.*, +, *TSMC Dec. 2021 7652-7662*

Mechanical engineering computing

- Equipment Health Assessment Based on Improved Incremental Support Vector Data Description. *Zhang, L.*, +, *TSMC May 2021 3205-3216*

Mechanical systems

- Constraint-Based Control Design for Uncertain Underactuated Mechanical System: Leakage-Type Adaptation Mechanism. *Sun, H.*, +, *TSMC Dec. 2021 7663-7674*

Mechatronics

- Cooperative Target Tracking in Aquatic Environment Using Dual Robotic Dolphins. *Liu, J.*, +, *TSMC Aug. 2021 4782-4792*
- Design and Control of a Two-Motor-Actuated Tuna-Inspired Robot System. *Du, S.*, +, *TSMC Aug. 2021 4670-4680*
- System-Level Prognostics Under Mission Profile Effects Using Inoperability Input–Output Model. *Tamssaouet, F.*, +, *TSMC Aug. 2021 4659-4669*
- Underwater Target Tracking Control of an Untethered Robotic Fish With a Camera Stabilizer. *Yu, J.*, +, *TSMC Oct. 2021 6523-6534*

Medical computing

- A Binary Particle Swarm Optimizer With Priority Planning and Hierarchical Learning for Networked Epidemic Control. *Zhao, T.*, +, *TSMC Aug. 2021 5090-5104*
- Bleeding Simulation With Improved Visual Effects for Surgical Simulation Systems. *Shi, W.*, +, *TSMC Feb. 2021 686-695*
- Evidential Reasoning Rule-Based Decision Support System for Predicting ICU Admission and In-Hospital Death of Trauma. *Kong, G.*, +, *TSMC Nov. 2021 7131-7142*
- Muscle-Synergies-Based Neuromuscular Control for Motion Learning and Generalization of a Musculoskeletal System. *Chen, J.*, +, *TSMC June 2021 3993-4006*

Medical control systems

- A Wearable Ultrasound System for Sensing Muscular Morphological Deformations. *Yang, X.*, +, *TSMC June 2021 3370-3379*
- Model-Based Adaptive Control of Transfemoral Prostheses: Theory, Simulation, and Experiments. *Azimi, V.*, +, *TSMC Feb. 2021 1174-1191*
- Suboptimal Control and Targeted Constant Control for Semi-Random Epidemic Networks. *Li, K.*, +, *TSMC April 2021 2602-2610*

Medical devices

- YSUY: Your Smartphone Understands You—Using Machine Learning to Address Fundamental Human Needs. *Akmandor, A.O.*, +, *TSMC Dec. 2021 7553-7568*

Medical image processing

- A Wearable Ultrasound System for Sensing Muscular Morphological Deformations. *Yang, X.*, +, *TSMC June 2021 3370-3379*
- Adaptive Pulsatile Plane for Robust Noncontact Heart Rate Monitoring. *Tran, Q.*, +, *TSMC Sept. 2021 5587-5599*
- Global and Local-Contrast Guides Content-Aware Fusion for RGB-D Saliency Prediction. *Zhou, W.*, +, *TSMC June 2021 3641-3649*

Medical information systems

- Evidential Reasoning Rule-Based Decision Support System for Predicting ICU Admission and In-Hospital Death of Trauma. *Kong, G.*, +, *TSMC Nov. 2021 7131-7142*

Medical robotics

- Independent Electromagnetic Field Control for Practical Approach to Actively Locomotive Wireless Capsule Endoscope. *Hoang, M.C.*, +, *TSMC May 2021 3040-3052*
- Muscle-Synergies-Based Neuromuscular Control for Motion Learning and Generalization of a Musculoskeletal System. *Chen, J.*, +, *TSMC June 2021 3993-4006*
- Vision-Assisted Autonomous Lower-Limb Exoskeleton Robot. *Liu, D.*, +, *TSMC June 2021 3759-3770*

Medical signal processing

- A Complex Network-Based Broad Learning System for Detecting Driver Fatigue From EEG Signals. *Yang, Y.*, +, *TSMC Sept. 2021 5800-5808*
- A Wearable Ultrasound System for Sensing Muscular Morphological Deformations. *Yang, X.*, +, *TSMC June 2021 3370-3379*
- Classification of EEG Signals on VEP-Based BCI Systems With Broad Learning. *Gao, Z.*, +, *TSMC Nov. 2021 7143-7151*
- Direct-Sense Brain–Computer Interfaces and Wearable Computers. *Lin, C.*, +, *TSMC Jan. 2021 298-312*
- Ensemble Learning Based Brain–Computer Interface System for Ground Vehicle Control. *Zhuang, J.*, +, *TSMC Sept. 2021 5392-5404*
- On the Utility of Power Spectral Techniques With Feature Selection Techniques for Effective Mental Task Classification in Noninvasive BCI. *Gupta, A.*, +, *TSMC May 2021 3080-3092*

Memristors

- Finite-Time Synchronization of Memristive Neural Networks With Fractional-Order. *Yang, S.*, +, *TSMC June 2021 3739-3750*
- Finite-Time Synchronization of Memristor-Based Recurrent Neural Networks With Inertial Items and Mixed Delays. *Lu, Z.*, +, *TSMC May 2021 2701-2711*
- Fixed-Time Synchronization of Second-Order MNNs in Quaternion Field. *Wei, R.*, +, *TSMC June 2021 3587-3598*
- Memristive LSTM Network for Sentiment Analysis. *Wen, S.*, +, *TSMC March 2021 1794-1804*
- Quasi-Synchronization of Delayed Memristive Neural Networks via a Hybrid Impulsive Control. *Zhou, Y.*, +, *TSMC March 2021 1954-1965*
- Robust Exponential Synchronization for Memristor Neural Networks With Nonidentical Characteristics by Pinning Control. *Li, Y.*, +, *TSMC March 2021 1966-1980*

Mesh generation

- Bleeding Simulation With Improved Visual Effects for Surgical Simulation Systems. *Shi, W.*, +, *TSMC Feb. 2021 686-695*

Message authentication

- An Efficient Lightweight Authentication Scheme With Adaptive Resilience of Asynchronization Attacks for Wireless Sensor Networks. *Xiong, L.*, +, *TSMC Sept. 2021 5626-5638*
- Game Theoretic Suppression of Forged Messages in Online Social Networks. *Wang, X.*, +, *TSMC March 2021 1601-1611*

Microgrids

- Multiaгент System-Based Integrated Design of Security Control and Economic Dispatch for Interconnected Microgrid Systems. *Zhang, Z.*, +, *TSMC April 2021 2101-2112*

Micromechanical devices

- Serial-Parallel Estimation Model-Based Sliding Mode Control of MEMS Gyroscopes. *Zhang, R.*, +, *TSMC Dec. 2021 7764-7775*

Microorganisms

- Topological Structure, Reachability, and Stabilization of Constrained Boolean Control Networks via Event-Triggered Control. *Lin, L.*, +, *TSMC June 2021 3565-3574*

Microrobots

- Independent Electromagnetic Field Control for Practical Approach to Actively Locomotive Wireless Capsule Endoscope. *Hoang, M.C.*, +, *TSMC May 2021 3040-3052*

MIMO systems

- Adaptive Neural Network-Based Finite-Time Tracking Control for Nonstrict Nonaffined MIMO Nonlinear Systems. *Li, S., +, TSMC Aug. 2021 4814-4824*
- Adaptive Tracking for Uncertain MIMO Nonlinear Systems With Time-Varying Parameters and Bounded Disturbance. *Zhang, Z., +, TSMC July 2021 4479-4491*
- Distributed Containment Control of MIMO Pure-Feedback Multiagent Systems Using Filter-Driven-Approximation Approach. *Choi, Y.H., +, TSMC Sept. 2021 5490-5502*
- Generalized Lead-Lag H_∞ Compensators for MIMO Linear Systems. *Liu, J.J.R., +, TSMC Oct. 2021 6207-6217*
- Prescribed Performance Neuroadaptive Fault-Tolerant Compensation for MIMO Nonlinear Systems Under Extreme Actuator Failures. *Zhou, S., +, TSMC Sept. 2021 5427-5436*
- Stable Adaptive Controller Based on Generalized Regression Neural Networks and Sliding Mode Control for a Class of Nonlinear Time-Varying Systems. *Al-Mahasneh, A.J., +, TSMC April 2021 2525-2535*
- Time-Scale Redesign-Based Saturated Controller Synthesis for a Class of MIMO Nonlinear Systems. *Rayguru, M.M., +, TSMC Aug. 2021 4681-4692*

Minimax techniques

- Parity Space Vector Machine Approach to Robust Fault Detection for Linear Discrete-Time Systems. *Zhong, M., +, TSMC July 2021 4251-4261*
- Receding Horizon Synchronization of Delayed Neural Networks Using a Novel Inequality on Quadratic Polynomial Functions. *Lu, C., +, TSMC Oct. 2021 6085-6095*

Minimization

- An Accelerated Distributed Gradient-Based Algorithm for Constrained Optimization With Application to Economic Dispatch in a Large-Scale Power System. *Guo, F., +, TSMC April 2021 2041-2053*
- Economic Design of a Linear Consecutively Connected System Considering Cost and Signal Loss. *Gao, K., +, TSMC Aug. 2021 5116-5128*
- Full Information Estimation for Time-Varying Systems Subject to Round-Robin Scheduling: A Recursive Filter Approach. *Zou, L., +, TSMC March 2021 1904-1916*
- Global Social Cost Minimization With Possibly Nonconvex Objective Functions: An Extremum Seeking-Based Approach. *Ye, M., +, TSMC Dec. 2021 7413-7422*
- Suboptimal Control and Targeted Constant Control for Semi-Random Epidemic Networks. *Li, K., +, TSMC April 2021 2602-2610*

Minimum principle

- Suboptimal Control and Targeted Constant Control for Semi-Random Epidemic Networks. *Li, K., +, TSMC April 2021 2602-2610*

Mixture models

- Semantic-Aware Informative Path Planning for Efficient Object Search Using Mobile Robot. *Wang, C., +, TSMC Aug. 2021 5230-5243*

Mobile computing

- An Indoor Positioning Algorithm Based on Fingerprint and Mobility Prediction in RSS Fluctuation-Prone WLANs. *Lin, C., +, TSMC May 2021 2926-2936*
- Dynamic Control of Fraud Information Spreading in Mobile Social Networks. *Lin, Y., +, TSMC June 2021 3725-3738*
- Time-Efficient Indoor Navigation and Evacuation With Fastest Path Planning Based on Internet of Things Technologies. *Chen, L., +, TSMC May 2021 3125-3135*

Mobile robots

- 3-D Path Planning With Multiple Motions for a Gliding Robotic Dolphin. *Wang, J., +, TSMC May 2021 2904-2915*
- A Noise-Enduring and Finite-Time Zeroing Neural Network for Equality-Constrained Time-Varying Nonlinear Optimization. *Xiao, L., +, TSMC Aug. 2021 4729-4740*
- A Novel Approach to Image-Sequence-Based Mobile Robot Place Recognition. *Yuan, J., +, TSMC Sept. 2021 5377-5391*
- A Visual Leader-Following Approach With a T-D-R Framework for Quadrupeped Robots. *Pang, L., +, TSMC April 2021 2342-2354*
- Adaptive Nonlinear Hierarchical Control for a Rotorcraft Transporting a Cable-Suspended Payload. *Liang, X., +, TSMC July 2021 4171-4182*

- Adaptive Path Following Control of Unmanned Surface Vehicles Considering Environmental Disturbances and System Constraints. *Liu, Z., +, TSMC Jan. 2021 339-353*
- An Efficient Method to Recover Relative Pose for Vehicle-Mounted Cameras Under Planar Motion. *Zhang, X., +, TSMC Feb. 2021 1138-1148*
- Cluster Event-Triggered Tracking Cooperative and Formation Control for Multivehicle Systems: An Extended Magnification Region Condition. *Wang, B., TSMC May 2021 3229-3239*
- Cooperative Event-Based Rigid Formation Control. *Sun, Z., +, TSMC July 2021 4308-4320*
- Cooperative Moving-Target Enclosing Control for Multiple Nonholonomic Vehicles Using Feedback Linearization Approach. *Peng, X., +, TSMC Aug. 2021 4929-4935*
- Cooperative Target Enclosing Control of Multiple Mobile Robots Subject to Input Disturbances. *Yu, X., +, TSMC June 2021 3440-3449*
- Cooperative Target Tracking in Aquatic Environment Using Dual Robotic Dolphins. *Liu, J., +, TSMC Aug. 2021 4782-4792*
- Curved Path Following for Unmanned Surface Vehicles With Heading Amendment. *Qu, Y., +, TSMC July 2021 4183-4192*
- Design and Control of a Two-Motor-Actuated Tuna-Inspired Robot System. *Du, S., +, TSMC Aug. 2021 4670-4680*
- Distributed Formation Control of Nonholonomic Wheeled Mobile Robots Subject to Longitudinal Slippage Constraints. *Wang, Z., +, TSMC May 2021 2992-3003*
- Distributed Lyapunov-Based Model Predictive Formation Tracking Control for Autonomous Underwater Vehicles Subject to Disturbances. *Wei, H., +, TSMC Aug. 2021 5198-5208*
- Drivable Path Planning Using Hybrid Search Algorithm Based on E* and Bernstein-Bézier Motion Primitives. *Klančar, G., +, TSMC Aug. 2021 4868-4882*
- Event-Triggered Distributed H_∞ Constrained Control of Physically Interconnected Large-Scale Partially Unknown Strict-Feedback Systems. *Tan, L.N., TSMC April 2021 2444-2456*
- Fault-Tolerant Fuzzy Formation Control for a Class of Nonlinear Multiagent Systems Under Directed and Switching Topology. *Deng, C., +, TSMC Sept. 2021 5456-5465*
- Fixed-Time Active Disturbance Rejection Control and Its Application to Wheeled Mobile Robots. *Chang, S., +, TSMC Nov. 2021 7120-7130*
- Fixed-Time Cooperative Relay Tracking in Multiagent Surveillance Networks. *Du, S., +, TSMC Jan. 2021 487-496*
- Fusing Skeleton Recognition With Face-TLD for Human Following of Mobile Service Robots. *Yuan, J., +, TSMC May 2021 2963-2979*
- Graph Optimization Approach to Range-Based Localization. *Fang, X., +, TSMC Nov. 2021 6830-6841*
- Impedance Control for Coordinated Robots by State and Output Feedback. *Dong, Y., +, TSMC Aug. 2021 5056-5066*
- Intelligent Leader-Following Consensus Formation Control Using Recurrent Neural Networks for Small-Size Unmanned Helicopters. *Kuo, C., +, TSMC Feb. 2021 1288-1301*
- IWSCR: An Intelligent Water Surface Cleaner Robot for Collecting Floating Garbage. *Kong, S., +, TSMC Oct. 2021 6358-6368*
- Laser-Based Intersection-Aware Human Following With a Mobile Robot in Indoor Environments. *Yuan, J., +, TSMC Jan. 2021 354-369*
- Model Predictive Control-Based Depth Control in Gliding Motion of a Gliding Robotic Dolphin. *Wang, J., +, TSMC Sept. 2021 5466-5477*
- Multisensor-Based Navigation and Control of a Mobile Service Robot. *Yuan, W., +, TSMC April 2021 2624-2634*
- Neural Integral Backstepping Hierarchical Sliding Mode Control for a Ridable Ballbot Under Uncertainties and Input Saturation. *Do, V., +, TSMC Nov. 2021 7214-7227*
- Neural Network-Based Adaptive Fault-Tolerant Control for Markovian Jump Systems With Nonlinearity and Actuator Faults. *Yang, H., +, TSMC June 2021 3687-3698*
- Neural Networks-Based Fault Tolerant Control of a Robot via Fast Terminal Sliding Mode. *Zhang, S., +, TSMC July 2021 4091-4101*

- Observer-Based Finite-Time Control for Distributed Path Maneuvering of Underactuated Unmanned Surface Vehicles With Collision Avoidance and Connectivity Preservation. *Gu, N., +, TSMC Aug. 2021 5105-5115*
- Optimization-Based Control for Bearing-Only Target Search With a Mobile Vehicle. *Li, Z., +, TSMC July 2021 4149-4159*
- Position-Tracking Controller for Two-Wheeled Balancing Robot Applications Using Invariant Dynamic Surface. *Kim, S., +, TSMC Feb. 2021 705-711*
- RISE-Based Integrated Motion Control of Autonomous Ground Vehicles With Asymptotic Prescribed Performance. *Hu, C., +, TSMC Sept. 2021 5336-5348*
- Robust Distributed Formation Controller Design for a Group of Unmanned Underwater Vehicles. *Liu, H., +, TSMC Feb. 2021 1215-1223*
- Robust Fixed-Time Consensus Tracking Control of High-Order Multiple Nonholonomic Systems. *Shi, S., +, TSMC March 2021 1869-1880*
- Robust LMI-Based H-Infinite Controller Integrating AFS and DYC of Autonomous Vehicles With Parametric Uncertainties. *Cheng, S., +, TSMC Nov. 2021 6901-6910*
- Robust Time-Varying Formation Control for Tail-Sitters in Flight Mode Transitions. *Liu, D., +, TSMC July 2021 4102-4111*
- Semantic-Aware Informative Path Planning for Efficient Object Search Using Mobile Robot. *Wang, C., +, TSMC Aug. 2021 5230-5243*
- Skill Learning From Human Demonstrations Using Dynamical Regressive Models for Multitask Applications. *Dutta, S., +, TSMC Jan. 2021 659-672*
- Survey of Human-Robot Collaboration in Industrial Settings: Awareness, Intelligence, and Compliance. *Kumar, S., +, TSMC Jan. 2021 280-297*
- Targeting Posture Control With Dynamic Obstacle Avoidance of Constrained Uncertain Wheeled Mobile Robots Including Unknown Skidding and Slipping. *Lu, Q., +, TSMC Nov. 2021 6650-6659*
- Time-Scale Redesign-Based Saturated Controller Synthesis for a Class of MIMO Nonlinear Systems. *Rayguru, M.M., +, TSMC Aug. 2021 4681-4692*
- Time-Varying Formation for General Linear Multiagent Systems Over Directed Topologies: A Fully Distributed Adaptive Technique. *Zhao, Y., +, TSMC Jan. 2021 532-541*
- Tracking Controllers to Chase a Target Using Multiple Autonomous Underwater Vehicles Measuring the Sound Emitted From the Target. *Kim, J., TSMC July 2021 4579-4587*
- Trajectory Tracking Control of Autonomous Underwater Vehicle With Unknown Parameters and External Disturbances. *Yang, X., +, TSMC Feb. 2021 1054-1063*
- Two Hybrid Multiobjective Motion Planning Schemes Synthesized by Recurrent Neural Networks for Wheeled Mobile Robot Manipulators. *Zhang, Z., +, TSMC May 2021 3270-3281*
- Underwater Target Tracking Control of an Untethered Robotic Fish With a Camera Stabilizer. *Yu, J., +, TSMC Oct. 2021 6523-6534*
- Vision-Assisted Autonomous Lower-Limb Exoskeleton Robot. *Liu, D., +, TSMC June 2021 3759-3770*
- Visual Regulation of Differential-Drive Mobile Robots: A Nonadaptive Switching Approach. *Lu, Q., +, TSMC Nov. 2021 6874-6884*
- Visual Trajectory Tracking of Wheeled Mobile Robots With Uncalibrated Camera Extrinsic Parameters. *Zhang, K., +, TSMC Nov. 2021 7191-7200*
- Mobility management (mobile radio)**
- Quick Convex Hull-Based Rendezvous Planning for Delay-Harsh Mobile Data Gathering in Disjoint Sensor Networks. *Liu, X., +, TSMC June 2021 3844-3854*
- Robust Vehicle Driver Assistance Control for Handover Scenarios Considering Driving Performances. *Chen, Y., +, TSMC July 2021 4160-4170*
- Monitoring**
- Deadlock Prevention Controller for Automated Manufacturing Systems Modeled by S⁴PR. *Feng, Y., +, TSMC Dec. 2021 7403-7412*
- Minimum Dominating Set of Multiplex Networks: Definition, Application, and Identification. *Zhao, D., +, TSMC Dec. 2021 7823-7837*
- Monte Carlo methods**
- Design and Analysis of a Human-Machine Interaction System for Researching Human's Dynamic Emotion. *Sun, X., +, TSMC Oct. 2021 6111-6121*
- Motion control**
- 3-D Path Planning With Multiple Motions for a Gliding Robotic Dolphin. *Wang, J., +, TSMC May 2021 2904-2915*
- A Linear Time-Varying Model Predictive Control-Based Motion Cueing Algorithm for Hexapod Simulation-Based Motion Platform. *Qazani, M.R.C., +, TSMC Oct. 2021 6096-6110*
- A Novel Robust Control Method for Motion Control of Uncertain Single-Link Flexible-Joint Manipulator. *Yan, Z., +, TSMC March 2021 1671-1678*
- A Visual Leader-Following Approach With a T-D-R Framework for Quadruiped Robots. *Pang, L., +, TSMC April 2021 2342-2354*
- Adaptive Nonlinear Hierarchical Control for a Rotorcraft Transporting a Cable-Suspended Payload. *Liang, X., +, TSMC July 2021 4171-4182*
- Adaptive Path Following Control of Unmanned Surface Vehicles Considering Environmental Disturbances and System Constraints. *Liu, Z., +, TSMC Jan. 2021 339-353*
- Coordinated Control of Underwater Biomimetic Vehicle-Manipulator System for Free Floating Autonomous Manipulation. *Cai, M., +, TSMC Aug. 2021 4793-4803*
- Design and Control of a Two-Motor-Actuated Tuna-Inspired Robot System. *Du, S., +, TSMC Aug. 2021 4670-4680*
- Drivable Path Planning Using Hybrid Search Algorithm Based on E* and Bernstein-Bézier Motion Primitives. *Klančar, G., +, TSMC Aug. 2021 4868-4882*
- Ensemble Learning Based Brain-Computer Interface System for Ground Vehicle Control. *Zhuang, J., +, TSMC Sept. 2021 5392-5404*
- Impedance Control for Coordinated Robots by State and Output Feedback. *Dong, Y., +, TSMC Aug. 2021 5056-5066*
- Model Predictive Control-Based Depth Control in Gliding Motion of a Gliding Robotic Dolphin. *Wang, J., +, TSMC Sept. 2021 5466-5477*
- Model-Based Adaptive Control of Transfemoral Prostheses: Theory, Simulation, and Experiments. *Azimi, V., +, TSMC Feb. 2021 1174-1191*
- Multisensor-Based Navigation and Control of a Mobile Service Robot. *Yuan, W., +, TSMC April 2021 2624-2634*
- New Joint-Drift-Free Scheme Aided with Projected ZNN for Motion Generation of Redundant Robot Manipulators Perturbed by Disturbances. *Lu, H., +, TSMC Sept. 2021 5639-5651*
- Observer-Based Finite-Time Control for Distributed Path Maneuvering of Underactuated Unmanned Surface Vehicles With Collision Avoidance and Connectivity Preservation. *Gu, N., +, TSMC Aug. 2021 5105-5115*
- RISE-Based Integrated Motion Control of Autonomous Ground Vehicles With Asymptotic Prescribed Performance. *Hu, C., +, TSMC Sept. 2021 5336-5348*
- Robust Time-Varying Formation Control for Tail-Sitters in Flight Mode Transitions. *Liu, D., +, TSMC July 2021 4102-4111*
- Robust Vehicle Driver Assistance Control for Handover Scenarios Considering Driving Performances. *Chen, Y., +, TSMC July 2021 4160-4170*
- Targeting Posture Control With Dynamic Obstacle Avoidance of Constrained Uncertain Wheeled Mobile Robots Including Unknown Skidding and Slipping. *Lu, Q., +, TSMC Nov. 2021 6650-6659*
- Two Hybrid Multiobjective Motion Planning Schemes Synthesized by Recurrent Neural Networks for Wheeled Mobile Robot Manipulators. *Zhang, Z., +, TSMC May 2021 3270-3281*
- Underwater Target Tracking Control of an Untethered Robotic Fish With a Camera Stabilizer. *Yu, J., +, TSMC Oct. 2021 6523-6534*
- Vision-Assisted Autonomous Lower-Limb Exoskeleton Robot. *Liu, D., +, TSMC June 2021 3759-3770*
- Multi-agent systems**
- A Dynamic Event-Triggered Control Approach to Leader-Following Consensus for Linear Multiagent Systems. *Liu, D., +, TSMC Oct. 2021 6271-6279*
- A New Fixed-Time Consensus Tracking Approach for Second-Order Multiagent Systems Under Directed Communication Topology. *Ni, J., +, TSMC April 2021 2488-2500*
- A New Switched System Approach to Leader-Follower Consensus of Heterogeneous Linear Multiagent Systems With DoS Attack. *Zhang, D., +, TSMC Feb. 2021 1258-1266*

- A Survey on Intelligent Control for Multiagent Systems. *Shi, P.*, +, *TSMC Jan. 2021 161-175*
- A Two-Phase Coordinated Planning Approach for Heterogeneous Earth-Observation Resources to Monitor Area Targets. *Deng, M.*, +, *TSMC Oct. 2021 6388-6403*
- Adaptive Event-Triggered and Double-Quantized Consensus of Leader-Follower Multiagent Systems With Semi-Markovian Jump Parameters. *Gong, C.*, +, *TSMC Sept. 2021 5867-5879*
- Adaptive Iterative Learning Control for High-Speed Train: A Multi-Agent Approach. *Huang, D.*, +, *TSMC July 2021 4067-4077*
- Adaptive Leaderless Consensus Control of Strict-Feedback Nonlinear Multiagent Systems With Unknown Control Directions. *Rezaee, H.*, +, *TSMC Oct. 2021 6435-6444*
- Adaptive NN Cooperative Control of Unknown Nonlinear Multiagent Systems With Communication Delays. *Psillakis, H.E.*, *TSMC Sept. 2021 5311-5321*
- Admissible Consensus for Homogenous Descriptor Multiagent Systems. *Liu, X.*, +, *TSMC Feb. 2021 965-974*
- Cluster Event-Triggered Tracking Cooperative and Formation Control for Multivehicle Systems: An Extended Magnification Region Condition. *Wang, B.*, *TSMC May 2021 3229-3239*
- Connection of Signed and Unsigned Networks Based on Solving Linear Dynamic Systems. *Meng, D.*, +, *TSMC Aug. 2021 5174-5188*
- Consensus of High-Order Discrete-Time Multiagent Systems With Switching Topology. *Zhang, Y.*, +, *TSMC Feb. 2021 721-730*
- Consensus of Multiagent Systems With Delayed Node Dynamics and Time-Varying Coupling. *Jia, Q.*, +, *TSMC June 2021 3320-3329*
- Consensus of Multiagent Systems With Relative State Saturations. *Chu, H.*, +, *TSMC April 2021 2391-2402*
- Consensus of Multiagent Systems With Time-Varying Input Delay and Relative State Saturation Constraints. *Chu, H.*, +, *TSMC Nov. 2021 6938-6944*
- Consensus of Multiagent Systems With Time-Varying Input Delay via Truncated Predictor Feedback. *Chu, H.*, +, *TSMC Oct. 2021 6062-6073*
- Consensus of One-Sided Lipschitz Multiagents Under Switching Topologies. *Razaq, M.A.*, +, *TSMC March 2021 1485-1495*
- Consensus Reaching and Strategic Manipulation in Group Decision Making With Trust Relationships. *Dong, Y.*, +, *TSMC Oct. 2021 6304-6318*
- Containment Control of Semi-Markovian Multiagent Systems With Switching Topologies. *Liang, H.*, +, *TSMC June 2021 3889-3899*
- Convergence of Distributed Accelerated Algorithm Over Unbalanced Directed Networks. *Li, H.*, +, *TSMC Aug. 2021 5153-5164*
- Cooperative Consensus for Heterogeneous Nonlinear Multiagent Systems Under a Leader Having Bounded Unknown Inputs. *Wang, B.*, *TSMC Nov. 2021 7075-7086*
- Cooperative Control of Multiple High-Order Agents With Nonidentical Unknown Control Directions Under Fixed and Time-Varying Topologies. *Wang, Q.*, +, *TSMC April 2021 2582-2591*
- Cooperative Fault-Tolerant Output Regulation of Linear Heterogeneous Multiagent Systems Under Directed Network Topology. *Deng, C.*, *TSMC Aug. 2021 4773-4781*
- Coordination Tracking of Multiagent Systems With Active Replacement Strategy Under Node Failures. *Dong, L.*, +, *TSMC Nov. 2021 6852-6862*
- Couple-Group Consensus for Cooperative-Competitive Heterogeneous Multiagent Systems: Hybrid Adaptive and Pinning Methods. *Ji, L.*, +, *TSMC Sept. 2021 5367-5376*
- Crowd Behavior Simulation With Emotional Contagion in Unexpected Multihazard Situations. *Xu, M.*, +, *TSMC March 2021 1567-1581*
- Decentralized Consensus Decision-Making for Cybersecurity Protection in Multimicrogrid Systems. *Hu, B.*, +, *TSMC April 2021 2187-2198*
- Distributed Adaptive Tracking Control for Lur'e Systems With Event-Triggered Strategy. *Wu, Z.*, +, *TSMC May 2021 3263-3269*
- Distributed Algorithm Design for Resource Allocation Problems of Second-Order Multiagent Systems Over Weight-Balanced Digraphs. *Deng, Z.*, *TSMC June 2021 3512-3521*
- Distributed Bipartite Consensus of Linear Multiagent Systems Based on Event-Triggered Output Feedback Control Scheme. *Cai, Y.*, +, *TSMC Nov. 2021 6743-6756*
- Distributed Consensus Control of Linear Multiagent Systems With Adaptive Nonlinear Couplings. *Wei, B.*, +, *TSMC Feb. 2021 1365-1370*
- Distributed Consensus Tracking of Networked Agent Systems Under Denial-of-Service Attacks. *Wan, Y.*, +, *TSMC Oct. 2021 6183-6196*
- Distributed Containment Control of MIMO Pure-Feedback Multiagent Systems Using Filter-Driven-Approximation Approach. *Choi, Y.H.*, +, *TSMC Sept. 2021 5490-5502*
- Distributed Containment Maneuvering of Uncertain Multiagent Systems in MIMO Strict-Feedback Form. *Zhang, Y.*, +, *TSMC Feb. 2021 1354-1364*
- Distributed Continuous-Time Optimization of Second-Order Multiagent Systems With Nonconvex Input Constraints. *Mo, L.*, +, *TSMC Oct. 2021 6404-6413*
- Distributed Diagnostic Problem Solving With Colored Behavioral Petri Nets. *Mancer, S.*, +, *TSMC June 2021 3380-3391*
- Distributed Dynamic Averaging Tracking Without Rate Measurements. *Chen, Y.*, +, *TSMC July 2021 4359-4364*
- Distributed Model-Based Event-Triggered Leader-Follower Consensus Control for Linear Continuous-Time Multiagent Systems. *Zhang, L.*, +, *TSMC Oct. 2021 6457-6465*
- Distributed Optimal Consensus Control for a Class of Uncertain Nonlinear Multiagent Networks With Disturbance Rejection Using Adaptive Technique. *Wang, D.*, +, *TSMC July 2021 4389-4399*
- Distributed Optimal Consensus for Euler-Lagrange Systems Based on Event-Triggered Control. *Wang, Q.*, +, *TSMC July 2021 4588-4598*
- Distributed Output-Feedback Tracking of Multiple Nonlinear Systems With Unmeasurable States. *Li, W.*, +, *TSMC Jan. 2021 477-486*
- Distributed Quantized Optimization Design of Continuous-Time Multiagent Systems Over Switching Graphs. *Chen, Z.*, +, *TSMC Nov. 2021 7152-7163*
- Distributed Resource Allocation Over Directed Graphs via Continuous-Time Algorithms. *Zhu, Y.*, +, *TSMC Feb. 2021 1097-1106*
- Distributed Robust Adaptive Optimization for Nonlinear Multiagent Systems. *Liu, Y.*, +, *TSMC Feb. 2021 1046-1053*
- Distributed Tracking for Discrete-Time Multiagent Networks via an Ultrafast Control Protocol. *Zhang, W.*, +, *TSMC Dec. 2021 7542-7552*
- Effect of Asynchronous Communications on Stationary Solutions for Discrete-Time Multiagent Systems. *Lee, K.*, *TSMC June 2021 3450-3463*
- Event-Triggered Consensus of General Linear Multiagent Systems With Data Sampling and Random Packet Losses. *Wang, F.*, +, *TSMC Feb. 2021 1313-1321*
- Event-Triggered Control for a Class of Nonlinear Multiagent Systems With Directed Graph. *Li, Z.*, +, *TSMC Nov. 2021 6986-6993*
- Event-Triggered Distributed H_∞ Constrained Control of Physically Interconnected Large-Scale Partially Unknown Strict-Feedback Systems. *Tan, L.N.*, *TSMC April 2021 2444-2456*
- Event-Triggered Iterative Learning Containment Control of Model-Free Multiagent Systems. *Hua, C.*, +, *TSMC Dec. 2021 7719-7726*
- Event-Triggered Model Predictive Control for Multiagent Systems With Communication Constraints. *Li, L.*, +, *TSMC May 2021 3304-3316*
- Event-Triggered Privacy-Preserving Average Consensus for Multiagent Networks With Time Delay: An Output Mask Approach. *Wang, A.*, +, *TSMC July 2021 4520-4531*
- Evolutionary Multiagent Transfer Learning With Model-Based Opponent Behavior Prediction. *Hou, Y.*, +, *TSMC Oct. 2021 5962-5976*
- Fault-Tolerant Fuzzy Formation Control for a Class of Nonlinear Multiagent Systems Under Directed and Switching Topology. *Deng, C.*, +, *TSMC Sept. 2021 5456-5465*
- Finite-Time Bipartite Consensus For Multiagent Systems Under Detail-Balanced Antagonistic Interactions. *Lu, J.*, +, *TSMC June 2021 3867-3875*
- Fixed-Time Consensus Tracking for Second-Order Multiagent Systems Under Disturbance. *Liu, Y.*, +, *TSMC Aug. 2021 4883-4894*
- Fixed-Time Cooperative Relay Tracking in Multiagent Surveillance Networks. *Du, S.*, +, *TSMC Jan. 2021 487-496*
- Fully Distributed Finite-Time Consensus of Directed Multiquadcopter Systems via Pinning Control. *Zhou, Y.*, +, *TSMC Aug. 2021 5080-5089*
- Fully Distributed Self-Triggered Control for Second-Order Consensus of Multiagent Systems. *Xu, W.*, +, *TSMC June 2021 3541-3551*

- Intelligent Leader-Following Consensus Formation Control Using Recurrent Neural Networks for Small-Size Unmanned Helicopters. *Kuo, C., +, TSMC Feb. 2021 1288-1301*
- LPV Scheme for Robust Adaptive Output Feedback Consensus of Lipschitz Multiagents Using Lipschitz Nonlinear Protocol. *Rehman, A.u., +, TSMC Nov. 2021 7040-7050*
- Multileader Multiagent Systems Containment Control With Event-Triggering. *Xu, Y., +, TSMC March 2021 1642-1651*
- Nearly Optimal Integral Sliding-Mode Consensus Control for Multiagent Systems With Disturbances. *Zhang, H., +, TSMC Aug. 2021 4741-4750*
- Necessary and Sufficient Conditions for Consensus in Fractional-Order Multiagent Systems via Sampled Data Over Directed Graph. *Su, H., +, TSMC April 2021 2501-2511*
- Nonfragile Consensus of Multiagent Systems Based on Memory Sampled-Data Control. *Ge, C., +, TSMC Jan. 2021 391-399*
- Novel Resilient Structure of Output Formation Tracking of Heterogeneous Systems With Unknown Leader Under Contested Environments. *Li, Q., +, TSMC Nov. 2021 6819-6829*
- Observer-Based Containment Control for a Class of Nonlinear Multiagent Systems With Uncertainties. *Yang, Y., +, TSMC Jan. 2021 588-600*
- Optimal Consensus via Distributed Protocol for Second-Order Multiagent Systems. *Sun, H., +, TSMC Oct. 2021 6218-6228*
- Optimal Control on Finite-Time Consensus of the Leader-Following Stochastic Multiagent System With Heuristic Method. *Xu, S., +, TSMC June 2021 3617-3628*
- Output Consensus of Multiagent Systems Based on PDEs With Input Constraint: A Boundary Control Approach. *Yang, C., +, TSMC Jan. 2021 370-377*
- Output-Based Containment Control for Uncertain Nonaffine Nonlinear Multiagent Systems. *Yang, Y., +, TSMC Oct. 2021 5992-6002*
- Output-Feedback-Based Consensus Control Without Continuous Interagent Communication. *Shih, C., +, TSMC May 2021 3240-3250*
- Predefined-Time Consensus Tracking of Second-Order Multiagent Systems. *Ni, J., +, TSMC April 2021 2550-2560*
- Predictive Cloud Control for Networked Multiagent Systems With Quantized Signals Under DoS Attacks. *Yang, H., +, TSMC Feb. 2021 1345-1353*
- Proximal Parameter Distribution Optimization. *Wang, X., +, TSMC June 2021 3771-3780*
- Quasi-Consensus Control for a Class of Time-Varying Stochastic Nonlinear Time-Delay Multiagent Systems Subject to Deception Attacks. *Liu, L., +, TSMC Nov. 2021 6863-6873*
- Random Sleep Scheme-Based Distributed Optimization Algorithm Over Unbalanced Time-Varying Networks. *Li, H., +, TSMC Aug. 2021 5244-5253*
- Relay Tracking Controller Design for Multiagent Systems With Varying Number of Agents. *Dong, L., +, TSMC Oct. 2021 6147-6158*
- Rendezvous of Heterogeneous Multiagent Systems With Nonuniform Time-Varying Information Delays: An Adaptive Approach. *Wang, J., +, TSMC Aug. 2021 4848-4857*
- Reset Control for Consensus of Multiagent Systems With Asynchronous Sampling. *Zhao, G., +, TSMC Aug. 2021 4911-4919*
- Robust Containment Control of Uncertain Multi-Agent Systems With Time-Delay and Heterogeneous Lipschitz Nonlinearity. *Parsa, M., +, TSMC April 2021 2312-2321*
- Robust Fixed-Time Consensus Tracking Control of High-Order Multiple Nonholonomic Systems. *Shi, S., +, TSMC March 2021 1869-1880*
- Robust Global Coordination of Networked Systems With Input Saturation and External Disturbances. *Wang, X., +, TSMC Dec. 2021 7788-7800*
- RQ-CEASE: A Resilient Quantized Collaborative Event-Triggered Average-Consensus Sampled-Data Framework Under Denial of Service Attack. *Amini, A., +, TSMC Nov. 2021 7027-7039*
- Sampled-Based Consensus for Nonlinear Multiagent Systems With Deception Attacks: The Decoupled Method. *Cui, Y., +, TSMC Jan. 2021 561-573*
- Scaled Tracking Consensus in Discrete-Time Second-Order Multiagent Systems With Random Packet Dropouts. *Shi, L., +, TSMC Dec. 2021 7745-7751*
- Second-Order Consensus of Hybrid Multiagent Systems. *Su, H., +, TSMC Oct. 2021 6503-6512*
- The Role of Reverse Edges on Consensus Performance of Chain Networks. *Hao, Y., +, TSMC March 2021 1757-1765*
- Time-Varying Formation for General Linear Multiagent Systems Over Directed Topologies: A Fully Distributed Adaptive Technique. *Zhao, Y., +, TSMC Jan. 2021 532-541*
- Multi-robot systems**
- A Dynamic Event-Triggered Control Approach to Leader-Following Consensus for Linear Multiagent Systems. *Liu, D., +, TSMC Oct. 2021 6271-6279*
- A New Fixed-Time Consensus Tracking Approach for Second-Order Multiagent Systems Under Directed Communication Topology. *Ni, J., +, TSMC April 2021 2488-2500*
- A New Switched System Approach to Leader-Follower Consensus of Heterogeneous Linear Multiagent Systems With DoS Attack. *Zhang, D., +, TSMC Feb. 2021 1258-1266*
- A Survey on Intelligent Control for Multiagent Systems. *Shi, P., +, TSMC Jan. 2021 161-175*
- Adaptive Event-Triggered and Double-Quantized Consensus of Leader-Follower Multiagent Systems With Semi-Markovian Jump Parameters. *Gong, C., +, TSMC Sept. 2021 5867-5879*
- Adaptive Leaderless Consensus Control of Strict-Feedback Nonlinear Multiagent Systems With Unknown Control Directions. *Rezaee, H., +, TSMC Oct. 2021 6435-6444*
- Adaptive NN Cooperative Control of Unknown Nonlinear Multiagent Systems With Communication Delays. *Psillakis, H.E., TSMC Sept. 2021 5311-5321*
- Admissible Consensus for Homogenous Descriptor Multiagent Systems. *Liu, X., +, TSMC Feb. 2021 965-974*
- Cluster Event-Triggered Tracking Cooperative and Formation Control for Multivehicle Systems: An Extended Magnification Region Condition. *Wang, B., TSMC May 2021 3229-3239*
- Connection of Signed and Unsigned Networks Based on Solving Linear Dynamic Systems. *Meng, D., +, TSMC Aug. 2021 5174-5188*
- Consensus of High-Order Discrete-Time Multiagent Systems With Switching Topology. *Zhang, Y., +, TSMC Feb. 2021 721-730*
- Convergence of Distributed Accelerated Algorithm Over Unbalanced Directed Networks. *Li, H., +, TSMC Aug. 2021 5153-5164*
- Cooperative Consensus for Heterogeneous Nonlinear Multiagent Systems Under a Leader Having Bounded Unknown Inputs. *Wang, B., TSMC Nov. 2021 7075-7086*
- Cooperative Control of Multiple High-Order Agents With Nonidentical Unknown Control Directions Under Fixed and Time-Varying Topologies. *Wang, Q., +, TSMC April 2021 2582-2591*
- Cooperative Event-Based Rigid Formation Control. *Sun, Z., +, TSMC July 2021 4308-4320*
- Cooperative Moving-Target Enclosing Control for Multiple Nonholonomic Vehicles Using Feedback Linearization Approach. *Peng, X., +, TSMC Aug. 2021 4929-4935*
- Cooperative Target Enclosing Control of Multiple Mobile Robots Subject to Input Disturbances. *Yu, X., +, TSMC June 2021 3440-3449*
- Cooperative Target Tracking in Aquatic Environment Using Dual Robotic Dolphins. *Liu, J., +, TSMC Aug. 2021 4782-4792*
- Couple-Group Consensus for Cooperative-Competitive Heterogeneous Multiagent Systems: Hybrid Adaptive and Pinning Methods. *Ji, L., +, TSMC Sept. 2021 5367-5376*
- Distributed Bipartite Consensus of Linear Multiagent Systems Based on Event-Triggered Output Feedback Control Scheme. *Cai, Y., +, TSMC Nov. 2021 6743-6756*
- Distributed Consensus Tracking of Networked Agent Systems Under Denial-of-Service Attacks. *Wan, Y., +, TSMC Oct. 2021 6183-6196*
- Distributed Dynamic Averaging Tracking Without Rate Measurements. *Chen, Y., +, TSMC July 2021 4359-4364*
- Distributed Formation Control of Nonholonomic Wheeled Mobile Robots Subject to Longitudinal Slippage Constraints. *Wang, Z., +, TSMC May 2021 2992-3003*

- Distributed Lyapunov-Based Model Predictive Formation Tracking Control for Autonomous Underwater Vehicles Subject to Disturbances. *Wei, H., +, TSMC Aug. 2021 5198-5208*
- Distributed Model-Based Event-Triggered Leader-Follower Consensus Control for Linear Continuous-Time Multiagent Systems. *Zhang, L., +, TSMC Oct. 2021 6457-6465*
- Distributed Optimal Consensus for Euler-Lagrange Systems Based on Event-Triggered Control. *Wang, Q., +, TSMC July 2021 4588-4598*
- Distributed Output-Feedback Tracking of Multiple Nonlinear Systems With Unmeasurable States. *Li, W., +, TSMC Jan. 2021 477-486*
- Distributed Robust Adaptive Optimization for Nonlinear Multiagent Systems. *Liu, Y., +, TSMC Feb. 2021 1046-1053*
- Event-Based Formation Coordinated Control for Multiple Spacecraft Under Communication Constraints. *Hu, Q., +, TSMC May 2021 3168-3179*
- Event-Triggered Consensus of General Linear Multiagent Systems With Data Sampling and Random Packet Losses. *Wang, F., +, TSMC Feb. 2021 1313-1321*
- Event-Triggered Distributed H_∞ Constrained Control of Physically Interconnected Large-Scale Partially Unknown Strict-Feedback Systems. *Tan, L.N., TSMC April 2021 2444-2456*
- Event-Triggered Model Predictive Control for Multiagent Systems With Communication Constraints. *Li, L., +, TSMC May 2021 3304-3316*
- Event-Triggered Privacy-Preserving Average Consensus for Multiagent Networks With Time Delay: An Output Mask Approach. *Wang, A., +, TSMC July 2021 4520-4531*
- Fault-Tolerant Fuzzy Formation Control for a Class of Nonlinear Multiagent Systems Under Directed and Switching Topology. *Deng, C., +, TSMC Sept. 2021 5456-5465*
- Fixed-Time Cooperative Relay Tracking in Multiagent Surveillance Networks. *Du, S., +, TSMC Jan. 2021 487-496*
- Fully Distributed Finite-Time Consensus of Directed Multiquadcopter Systems via Pinning Control. *Zhou, Y., +, TSMC Aug. 2021 5080-5089*
- Group-Oriented Task Allocation for Crowdsourcing in Social Networks. *Jiang, J., +, TSMC July 2021 4417-4432*
- Impedance Control for Coordinated Robots by State and Output Feedback. *Dong, Y., +, TSMC Aug. 2021 5056-5066*
- Intelligent Leader-Following Consensus Formation Control Using Recurrent Neural Networks for Small-Size Unmanned Helicopters. *Kuo, C., +, TSMC Feb. 2021 1288-1301*
- LPV Scheme for Robust Adaptive Output Feedback Consensus of Lipschitz Multiagents Using Lipschitz Nonlinear Protocol. *Rehman, A.U., +, TSMC Nov. 2021 7040-7050*
- Novel Resilient Structure of Output Formation Tracking of Heterogeneous Systems With Unknown Leader Under Contested Environments. *Li, Q., +, TSMC Nov. 2021 6819-6829*
- Observer-Based Finite-Time Control for Distributed Path Maneuvering of Underactuated Unmanned Surface Vehicles With Collision Avoidance and Connectivity Preservation. *Gu, N., +, TSMC Aug. 2021 5105-5115*
- Quasi-Consensus Control for a Class of Time-Varying Stochastic Nonlinear Time-Delay Multiagent Systems Subject to Deception Attacks. *Liu, L., +, TSMC Nov. 2021 6863-6873*
- Quasi-Synchronization in Heterogeneous Harmonic Oscillators With Continuous and Sampled Coupling. *Wang, Z., +, TSMC Feb. 2021 1267-1277*
- Random Sleep Scheme-Based Distributed Optimization Algorithm Over Unbalanced Time-Varying Networks. *Li, H., +, TSMC Aug. 2021 5244-5253*
- Rendezvous of Heterogeneous Multiagent Systems With Nonuniform Time-Varying Information Delays: An Adaptive Approach. *Wang, J., +, TSMC Aug. 2021 4848-4857*
- Robust Distributed Formation Controller Design for a Group of Unmanned Underwater Vehicles. *Liu, H., +, TSMC Feb. 2021 1215-1223*
- Robust Fixed-Time Consensus Tracking Control of High-Order Multiple Nonholonomic Systems. *Shi, S., +, TSMC March 2021 1869-1880*
- Robust Time-Varying Formation Control for Tail-Sitters in Flight Mode Transitions. *Liu, D., +, TSMC July 2021 4102-4111*
- Sampled-Based Consensus for Nonlinear Multiagent Systems With Deception Attacks: The Decoupled Method. *Cui, Y., +, TSMC Jan. 2021 561-573*
- Time-Varying Formation for General Linear Multiagent Systems Over Directed Topologies: A Fully Distributed Adaptive Technique. *Zhao, Y., +, TSMC Jan. 2021 532-541*
- Tracking Controllers to Chase a Target Using Multiple Autonomous Underwater Vehicles Measuring the Sound Emitted From the Target. *Kim, J., TSMC July 2021 4579-4587*
- Multidimensional systems**
- Iterative Learning Control for Multiphase Batch Processes With Asynchronous Switching. *Wang, L., +, TSMC April 2021 2536-2549*
- Multilayer perceptrons**
- A Lightweight On-Device Detection Method for Android Malware. *Yuan, W., +, TSMC Sept. 2021 5600-5611*
- Location-Aware Deep Collaborative Filtering for Service Recommendation. *Zhang, Y., +, TSMC June 2021 3796-3807*
- Multiplexing**
- Minimum Dominating Set of Multiplex Networks: Definition, Application, and Identification. *Zhao, D., +, TSMC Dec. 2021 7823-7837*
- Multivariable systems**
- Event-Triggered Adaptive Output Feedback Control of Multivariable Systems With Nonsmooth Actuator Nonlinearities. *Yang, Y., +, TSMC Sept. 2021 5557-5566*
- Muscle**
- sA Wearable Ultrasound System for Sensing Muscular Morphological Deformations. *Yang, X., +, TSMC June 2021 3370-3379*
- Muscle-Synergies-Based Neuromuscular Control for Motion Learning and Generalization of a Musculoskeletal System. *Chen, J., +, TSMC June 2021 3993-4006*
- N**
- Natural language processing**
- Multilevel Image-Enhanced Sentence Representation Net for Natural Language Inference. *Zhang, K., +, TSMC June 2021 3781-3795*
- Natural languages**
- Multilevel Image-Enhanced Sentence Representation Net for Natural Language Inference. *Zhang, K., +, TSMC June 2021 3781-3795*
- Navier-Stokes equations**
- Bleeding Simulation With Improved Visual Effects for Surgical Simulation Systems. *Shi, W., +, TSMC Feb. 2021 686-695*
- Navigation**
- Multisensor-Based Navigation and Control of a Mobile Service Robot. *Yuan, W., +, TSMC April 2021 2624-2634*
- Nearest neighbor methods**
- KNN-BLOCK DBSCAN: Fast Clustering for Large-Scale Data. *Chen, Y., +, TSMC June 2021 3939-3953*
- Network theory (graphs)**
- A Chaotic Ant Colony Optimized Link Prediction Algorithm. *Cao, Z., +, TSMC Sept. 2021 5274-5288*
- A Community Structure Enhancement-Based Community Detection Algorithm for Complex Networks. *Su, Y., +, TSMC May 2021 2833-2846*
- An Efficient Hybrid Control Strategy for Restraining Rumor Spreading. *Ding, L., +, TSMC Nov. 2021 6779-6791*
- Connection of Signed and Unsigned Networks Based on Solving Linear Dynamic Systems. *Meng, D., +, TSMC Aug. 2021 5174-5188*
- Consensus of High-Order Discrete-Time Multiagent Systems With Switching Topology. *Zhang, Y., +, TSMC Feb. 2021 721-730*
- Convergence of Distributed Accelerated Algorithm Over Unbalanced Directed Networks. *Li, H., +, TSMC Aug. 2021 5153-5164*
- Coordination and Control of Complex Network Systems With Switching Topologies: A Survey. *Wen, G., +, TSMC Oct. 2021 6342-6357*
- Distributed Bipartite Consensus of Linear Multiagent Systems Based on Event-Triggered Output Feedback Control Scheme. *Cai, Y., +, TSMC Nov. 2021 6743-6756*
- Inferring Network Structure and Estimating Dynamical Process From Binary-State Data via Logistic Regression. *Liu, Q., +, TSMC Aug. 2021 4639-4649*
- Intermittent Control Strategy for Synchronization Analysis of Time-Varying Complex Dynamical Networks. *Wu, Y., +, TSMC May 2021 3251-3262*

- Managing Consensus With Minimum Adjustments in Group Decision Making With Opinions Evolution. *Chen, X.*, +, *TSMC April 2021 2299-2311*
- Optimizing Pinning Control of Complex Dynamical Networks Based on Spectral Properties of Grounded Laplacian Matrices. *Liu, H.*, +, *TSMC Feb. 2021 786-796*
- Quasi-Consensus Control for a Class of Time-Varying Stochastic Nonlinear Time-Delay Multiagent Systems Subject to Deception Attacks. *Liu, L.*, +, *TSMC Nov. 2021 6863-6873*
- Quasi-Synchronization in Heterogeneous Harmonic Oscillators With Continuous and Sampled Coupling. *Wang, Z.*, +, *TSMC Feb. 2021 1267-1277*
- Random Sleep Scheme-Based Distributed Optimization Algorithm Over Unbalanced Time-Varying Networks. *Li, H.*, +, *TSMC Aug. 2021 5244-5253*
- Robustness Evaluation of Multipartite Complex Networks Based on Percolation Theory. *Cai, Q.*, +, *TSMC Oct. 2021 6244-6257*
- Sequential Restorations of Complex Networks After Cascading Failures. *Huang, Y.*, +, *TSMC Jan. 2021 400-411*
- Suboptimal Control and Targeted Constant Control for Semi-Random Epidemic Networks. *Li, K.*, +, *TSMC April 2021 2602-2610*
- Network topology**
- Robust Global Coordination of Networked Systems With Input Saturation and External Disturbances. *Wang, X.*, +, *TSMC Dec. 2021 7788-7800*
- Networked control systems**
- A Dynamic Event-Triggered Control Approach to Leader-Following Consensus for Linear Multiagent Systems. *Liu, D.*, +, *TSMC Oct. 2021 6271-6279*
- Co-Design of Quantization and Event-Driven Control for Networked Control Systems. *Liu, X.*, +, *TSMC May 2021 3103-3110*
- Distributed Consensus Tracking of Networked Agent Systems Under Denial-of-Service Attacks. *Wan, Y.*, +, *TSMC Oct. 2021 6183-6196*
- Estimate-Based Dynamic Event-Triggered Output Feedback Control of Networked Nonlinear Uncertain Systems. *Sun, J.*, +, *TSMC May 2021 3148-3158*
- Event-Driven Fault Detection for Discrete-Time Interval Type-2 Fuzzy Systems. *Pan, Y.*, +, *TSMC Aug. 2021 4959-4968*
- Event-Triggered H_∞ Filtering for Networked Switched Systems With Packet Disorders. *Qi, Y.*, +, *TSMC May 2021 2847-2859*
- Event-Triggered Model Predictive Control for Multiagent Systems With Communication Constraints. *Li, L.*, +, *TSMC May 2021 3304-3316*
- Hidden Markov Model Based Fault Detection for Networked Singularly Perturbed Systems. *Wan, X.*, +, *TSMC Oct. 2021 6445-6456*
- Input-to-State Stability of Nonlinear Systems Using Observer-Based Event-Triggered Impulsive Control. *Li, X.*, +, *TSMC Nov. 2021 6892-6900*
- Moving Horizon Estimation of Networked Nonlinear Systems With Random Access Protocol. *Zou, L.*, +, *TSMC May 2021 2937-2948*
- Optimal Control and Stabilization for Networked Systems With Input Delay and Markovian Packet Losses. *Li, H.*, +, *TSMC July 2021 4453-4465*
- Predictive Cloud Control for Networked Multiagent Systems With Quantized Signals Under DoS Attacks. *Yang, H.*, +, *TSMC Feb. 2021 1345-1353*
- Quantized Control of Networked Control Systems Under Stochastic Clock Offsets. *Sun, H.*, +, *TSMC May 2021 3004-3013*
- Resilient H_∞ Filtering for Event-Triggered Networked Systems Under Nonperiodic DoS Jamming Attacks. *Hu, S.*, +, *TSMC March 2021 1392-1403*
- Stability Analysis of Complex Network Control System With Dynamical Topology and Delays. *Li, M.*, +, *TSMC Nov. 2021 7228-7237*
- Stabilization of Networked Control Systems With Hybrid-Driven Mechanism and Probabilistic Cyber Attacks. *Liu, J.*, +, *TSMC Feb. 2021 943-953*
- Neural network architecture**
- Modular Lightweight Network for Road Object Detection Using a Feature Fusion Approach. *Liu, Y.*, +, *TSMC Aug. 2021 4716-4728*
- Neural networks**
- A Construction of Robust Representations for Small Data Sets Using Broad Learning System. *Tang, H.*, +, *TSMC Oct. 2021 6074-6084*
- A Deep Latent Factor Model for High-Dimensional and Sparse Matrices in Recommender Systems. *Wu, D.*, +, *TSMC July 2021 4285-4296*
- A Generalized Golden Rule Representative Value for Multiple-Criteria Decision Analysis. *Liu, Z.*, +, *TSMC May 2021 3193-3204*
- A Lightweight On-Device Detection Method for Android Malware. *Yuan, W.*, +, *TSMC Sept. 2021 5600-5611*
- Bidirectional Associative Memories: Unsupervised Hebbian Learning to Bidirectional Backpropagation. *Kosko, B.*, *TSMC Jan. 2021 103-115*
- Collaborative Neural Social Recommendation. *Wu, L.*, +, *TSMC Jan. 2021 464-476*
- Deep Adversarial Domain Adaptation Model for Bearing Fault Diagnosis. *Liu, Z.*, +, *TSMC July 2021 4217-4226*
- Deep Attributed Network Embedding by Preserving Structure and Attribute Information. *Hong, R.*, +, *TSMC March 2021 1434-1445*
- DeSIRE: Deep Signer-Invariant Representations for Sign Language Recognition. *Ferreira, P.M.*, +, *TSMC Sept. 2021 5830-5845*
- Ensemble Learning Based Brain-Computer Interface System for Ground Vehicle Control. *Zhuang, J.*, +, *TSMC Sept. 2021 5392-5404*
- Evidential Reasoning Rule-Based Decision Support System for Predicting ICU Admission and In-Hospital Death of Trauma. *Kong, G.*, +, *TSMC Nov. 2021 7131-7142*
- Exponential Stability of Delayed Generalized Neural Networks With Intermittent Large-Delay Periods. *Yang, B.*, +, *TSMC Dec. 2021 7392-7402*
- Finite-Time State Estimation for Delayed Neural Networks With Redundant Delayed Channels. *Zhao, Z.*, +, *TSMC Jan. 2021 441-451*
- Finite-Time Synchronization for Switched Neural Networks via Quantized Feedback Control. *Guan, C.*, +, *TSMC May 2021 2873-2884*
- Finite-Time Synchronization of Memristive Neural Networks With Fractional-Order. *Yang, S.*, +, *TSMC June 2021 3739-3750*
- Global Predefined Time and Accuracy Adaptive Neural Network Control for Uncertain Strict-Feedback Systems With Output Constraint and Dead Zone. *Ni, J.*, +, *TSMC Dec. 2021 7903-7918*
- Impedance Control for Coordinated Robots by State and Output Feedback. *Dong, Y.*, +, *TSMC Aug. 2021 5056-5066*
- Multiple ψ -Type Stability of Cohen-Grossberg Neural Networks With Unbounded Time-Varying Delays. *Zhang, F.*, +, *TSMC Jan. 2021 521-531*
- Multiscale Multipath Ensemble Convolutional Neural Network. *Wang, X.*, +, *TSMC Sept. 2021 5918-5928*
- New Noise-Tolerant Neural Algorithms for Future Dynamic Nonlinear Optimization With Estimation on Hessian Matrix Inversion. *Wei, L.*, +, *TSMC April 2021 2611-2623*
- New Noise-Tolerant ZNN Models With Predefined-Time Convergence for Time-Variant Sylvester Equation Solving. *Xiao, L.*, +, *TSMC June 2021 3629-3640*
- Quasi-Synchronization of Delayed Memristive Neural Networks via a Hybrid Impulsive Control. *Zhou, Y.*, +, *TSMC March 2021 1954-1965*
- Receding Horizon Synchronization of Delayed Neural Networks Using a Novel Inequality on Quadratic Polynomial Functions. *Lu, C.*, +, *TSMC Oct. 2021 6085-6095*
- Robust 3-D Object Recognition via View-Specific Constraint. *Liu, H.*, +, *TSMC Nov. 2021 7109-7119*
- Robust Exponential Synchronization for Memristor Neural Networks With Nonidentical Characteristics by Pinning Control. *Li, Y.*, +, *TSMC March 2021 1966-1980*
- Serial-Parallel Estimation Model-Based Sliding Mode Control of MEMS Gyroscopes. *Zhang, R.*, +, *TSMC Dec. 2021 7764-7775*
- Solving Optimization Problems Through Fully Convolutional Networks: An Application to the Traveling Salesman Problem. *Ling, Z.*, +, *TSMC Dec. 2021 7475-7485*
- Stacked Broad Learning System: From Incremental Flatted Structure to Deep Model. *Liu, Z.*, +, *TSMC Jan. 2021 209-222*
- Threshold-Function-Dependent Quasi-Synchronization of Delayed Memristive Neural Networks via Hybrid Event-Triggered Control. *Yan, Z.*, +, *TSMC Nov. 2021 6712-6722*
- Toward Autonomous Adaptive Intelligence: Building Upon Neural Models of How Brains Make Minds. *Grossberg, S.*, *TSMC Jan. 2021 51-75*
- Weight-Adapted Convolution Neural Network for Facial Expression Recognition in Human-Robot Interaction. *Wu, M.*, +, *TSMC March 2021 1473-1484*

Neurocontrollers

- A Disturbance Rejection Framework for Finite-Time and Fixed-Time Stabilization of Delayed Memristive Neural Networks. *Wang, L., +, TSMC Feb. 2021 905-915*
- A Noise-Enduring and Finite-Time Zeroing Neural Network for Equality-Constrained Time-Varying Nonlinear Optimization. *Xiao, L., +, TSMC Aug. 2021 4729-4740*
- A Novel Finite-Time Control for Nonstrict Feedback Saturated Nonlinear Systems With Tracking Error Constraint. *Sun, K., +, TSMC June 2021 3968-3979*
- Adaptive Command Filtered Neuro-Fuzzy Control Design for Fractional-Order Nonlinear Systems With Unknown Control Directions and Input Quantization. *Song, S., +, TSMC Nov. 2021 7238-7249*
- Adaptive Finite-Time Saturated Tracking Control for a Class of Partially Known Robots. *Hwang, C., +, TSMC Sept. 2021 5674-5685*
- Adaptive Finite-Time Tracking Control for Continuous Stirred Tank Reactor With Time-Varying Output Constraint. *Li, D., +, TSMC Sept. 2021 5929-5934*
- Adaptive Fixed-Time Control of Error-Constrained Pure-Feedback Interconnected Nonlinear Systems. *Zhou, Q., +, TSMC Oct. 2021 6369-6380*
- Adaptive Neural Discrete-Time Fractional-Order Control for a UAV System With Prescribed Performance Using Disturbance Observer. *Shao, S., +, TSMC Feb. 2021 742-754*
- Adaptive Neural Network Control Design for Uncertain Nonstrict Feedback Nonlinear System With State Constraints. *Ma, L., +, TSMC June 2021 3678-3686*
- Adaptive Neural Network-Based Finite-Time Tracking Control for Nonstrict Nonaffined MIMO Nonlinear Systems. *Li, S., +, TSMC Aug. 2021 4814-4824*
- Adaptive Neural Sliding Mode Control for Singular Semi-Markovian Jump Systems Against Actuator Attacks. *Cao, Z., +, TSMC March 2021 1523-1533*
- Adaptive Neural Tracking Control Scheme of Switched Stochastic Nonlinear Pure-Feedback Nonlower Triangular Systems. *Niu, B., +, TSMC Feb. 2021 975-986*
- Adaptive NN Cooperative Control of Unknown Nonlinear Multiagent Systems With Communication Delays. *Psillakis, H.E., TSMC Sept. 2021 5311-5321*
- Adaptive NN Cross Backstepping Control for Nonlinear Systems With Partial Time-Varying State Constraints and Its Applications to Hyper-Chaotic Systems. *Li, D., +, TSMC May 2021 2821-2832*
- Adaptive Quantized Control of Output Feedback Nonlinear Systems With Input Unmodeled Dynamics Based on Backstepping and Small-Gain Method. *Xia, X., +, TSMC Sept. 2021 5686-5697*
- Adaptive Type-2 FNN-Based Dynamic Sliding Mode Control of DC-DC Boost Converters. *Wang, J., +, TSMC April 2021 2246-2257*
- Adaptive Vehicle Stability Control of Half-Car Active Suspension Systems With Partial Performance Constraints. *Zeng, Q., +, TSMC March 2021 1704-1714*
- An Improved Result on Sampled-Data Synchronization of Markov Jump Delayed Neural Networks. *Shen, H., +, TSMC June 2021 3608-3616*
- Asymmetric Bounded Neural Control for an Uncertain Robot by State Feedback and Output Feedback. *Kong, L., +, TSMC March 2021 1735-1746*
- Asymptotic Stability and Synchronization of Fractional-Order Neural Networks With Unbounded Time-Varying Delays. *Zhang, F., +, TSMC Sept. 2021 5547-5556*
- Command Filter-Based Adaptive Prescribed Performance Tracking Control for Stochastic Uncertain Nonlinear Systems. *Sun, W., +, TSMC Oct. 2021 6555-6563*
- Connecting Model-Based and Model-Free Control With Emotion Modulation in Learning Systems. *Huang, X., +, TSMC Aug. 2021 4624-4638*
- Control Design for Uncertain Switched Nonlinear Systems: Adaptive Neural Approach. *Liu, Z., +, TSMC April 2021 2322-2331*
- Data-Driven Output-Feedback LQ Secure Control for Unknown Cyber-Physical Systems Against Sparse Actuator Attacks. *Shen, X., +, TSMC Sept. 2021 5708-5720*
- Decentralized Event-Triggered Tracking of a Class of Uncertain Interconnected Nonlinear Systems Using Minimal Function Approximators. *Choi, Y.H., +, TSMC March 2021 1766-1778*
- Distributed Containment Control of MIMO Pure-Feedback Multiagent Systems Using Filter-Driven-Approximation Approach. *Choi, Y.H., +, TSMC Sept. 2021 5490-5502*
- Distributed Containment Maneuvering of Uncertain Multiagent Systems in MIMO Strict-Feedback Form. *Zhang, Y., +, TSMC Feb. 2021 1354-1364*
- Distributed Optimal Observer Design of Networked Systems via Adaptive Critic Design. *Fu, H., +, TSMC Nov. 2021 6976-6985*
- Echo State Network-Based Decentralized Control of Continuous-Time Nonlinear Large-Scale Interconnected Systems. *Zhang, H., +, TSMC Oct. 2021 6293-6303*
- Event-Triggered Adaptive Output Feedback Control of Multivariable Systems With Nonsmooth Actuator Nonlinearities. *Yang, Y., +, TSMC Sept. 2021 5557-5566*
- Event-Triggered Control for Multiagent Systems With Sensor Faults and Input Saturation. *Cao, L., +, TSMC June 2021 3855-3866*
- Event-Triggered Distributed H_∞ Constrained Control of Physically Interconnected Large-Scale Partially Unknown Strict-Feedback Systems. *Tan, L.N., TSMC April 2021 2444-2456*
- Event-Triggered Prescribed Performance Control for a Class of Unknown Nonlinear Systems. *Zhang, J., +, TSMC Oct. 2021 6576-6586*
- Fault-Tolerant Control for Dynamic Positioning Vessel With Thruster Faults Based on the Neural Modified Extended State Observer. *Yu, W., +, TSMC Sept. 2021 5905-5917*
- Fault-Tolerant Fuzzy Formation Control for a Class of Nonlinear Multiagent Systems Under Directed and Switching Topology. *Deng, C., +, TSMC Sept. 2021 5456-5465*
- Finite-Time Dissipative Synchronization for Markovian Jump Generalized Inertial Neural Networks With Reaction-Diffusion Terms. *Song, X., +, TSMC June 2021 3650-3661*
- Finite-Time Synchronization of Memristor-Based Recurrent Neural Networks With Inertial Items and Mixed Delays. *Lu, Z., +, TSMC May 2021 2701-2711*
- Fixed-Time Synchronization of Second-Order MNNs in Quaternion Field. *Wei, R., +, TSMC June 2021 3587-3598*
- Force Sensorless Admittance Control for Teleoperation of Uncertain Robot Manipulator Using Neural Networks. *Yang, C., +, TSMC May 2021 3282-3292*
- Fuzzy Finite-Time Tracking Control for a Class of Nonaffine Nonlinear Systems With Unknown Dead Zones. *Bao, J., +, TSMC Jan. 2021 452-463*
- Gradient Descent Algorithm-Based Adaptive NN Control Design for an Induction Motor. *Yang, X., +, TSMC Feb. 2021 1027-1034*
- Intelligent Leader-Following Consensus Formation Control Using Recurrent Neural Networks for Small-Size Unmanned Helicopters. *Kuo, C., +, TSMC Feb. 2021 1288-1301*
- Interval Type-2 FNN-Based Quantized Tracking Control for Hypersonic Flight Vehicles With Prescribed Performance. *Gao, Y., +, TSMC March 2021 1981-1993*
- Lyapunov Control Method for Mismatched Uncertainty and Gain Variation Compensation in Switched Systems. *Aghababa, M.P., TSMC July 2021 4227-4237*
- Multi-Kernel Online Reinforcement Learning for Path Tracking Control of Intelligent Vehicles. *Liu, J., +, TSMC Nov. 2021 6962-6975*
- Nearly Optimal Integral Sliding-Mode Consensus Control for Multiagent Systems With Disturbances. *Zhang, H., +, TSMC Aug. 2021 4741-4750*
- Neural Integral Backstepping Hierarchical Sliding Mode Control for a Rideable Ballbot Under Uncertainties and Input Saturation. *Do, V., +, TSMC Nov. 2021 7214-7227*
- Neural Network-Based Adaptive Fault-Tolerant Control for Markovian Jump Systems With Nonlinearity and Actuator Faults. *Yang, H., +, TSMC June 2021 3687-3698*
- Neural Network-Based Cooperative Identification for a Class of Unknown Nonlinear Systems via Event-Triggered Communication. *Gao, F., +, TSMC March 2021 1404-1413*

- Neural Network-Based Sampled-Data Control for Switched Uncertain Nonlinear Systems. *Li, S., +, TSMC Sept. 2021 5437-5445*
- Neural Networks-Based Fault Tolerant Control of a Robot via Fast Terminal Sliding Mode. *Zhang, S., +, TSMC July 2021 4091-4101*
- Neural-Based Decentralized Adaptive Finite-Time Control for Nonlinear Large-Scale Systems With Time-Varying Output Constraints. *Du, P., +, TSMC May 2021 3136-3147*
- Neuro-Fuzzy-Based Adaptive Dynamic Surface Control for Fractional-Order Nonlinear Strict-Feedback Systems With Input Constraint. *Song, S., +, TSMC June 2021 3575-3586*
- New Joint-Drift-Free Scheme Aided with Projected ZNN for Motion Generation of Redundant Robot Manipulators Perturbed by Disturbances. *Lu, H., +, TSMC Sept. 2021 5639-5651*
- Policy-Iteration-Based Learning for Nonlinear Player Game Systems With Constrained Inputs. *Mu, C., +, TSMC Oct. 2021 6488-6502*
- Position-Tracking Controller for Two-Wheeled Balancing Robot Applications Using Invariant Dynamic Surface. *Kim, S., +, TSMC Feb. 2021 705-711*
- Prediction-Based Seabed Terrain Following Control for an Underwater Vehicle-Manipulator System. *Cai, M., +, TSMC Aug. 2021 4751-4760*
- Prescribed Performance Neuroadaptive Fault-Tolerant Compensation for MIMO Nonlinear Systems Under Extreme Actuator Failures. *Zhou, S., +, TSMC Sept. 2021 5427-5436*
- Quantized Decentralized Adaptive Neural Network PI Tracking Control for Uncertain Interconnected Nonlinear Systems With Dynamic Uncertainties. *Sun, H., +, TSMC May 2021 3111-3124*
- Quasi-Synchronization for Periodic Neural Networks With Asynchronous Target and Constrained Information. *Xu, Y., +, TSMC July 2021 4379-4388*
- RBFNN-Based Adaptive Iterative Learning Fault-Tolerant Control for Subway Trains With Actuator Faults and Speed Constraint. *Liu, G., +, TSMC Sept. 2021 5785-5799*
- Robust Adaptive Neural Control of Nonminimum Phase Hypersonic Vehicle Model. *Xu, B., +, TSMC Feb. 2021 1107-1115*
- Robust Exponential Synchronization for Memristor Neural Networks With Nonidentical Characteristics by Pinning Control. *Li, Y., +, TSMC March 2021 1966-1980*
- Robust Stabilization of High-Order Nonlinear Systems With Unknown Sensitivities and Applications in Humanoid Robot Manipulation. *Sun, Z., +, TSMC July 2021 4409-4416*
- Sliding-Mode Observer-Based Fault Reconstruction for T-S Fuzzy Descriptor Systems. *Li, R., +, TSMC Aug. 2021 5046-5055*
- Small-Gain Technique-Based Adaptive Neural Output-Feedback Fault-Tolerant Control of Switched Nonlinear Systems With Unmodeled Dynamics. *Ma, L., +, TSMC Nov. 2021 7051-7062*
- Stable Adaptive Controller Based on Generalized Regression Neural Networks and Sliding Mode Control for a Class of Nonlinear Time-Varying Systems. *Al-Mahasneh, A.J., +, TSMC April 2021 2525-2535*
- Stepsize Interval Confirmation of General Four-Step DTZN Algorithm Illustrated With Future Quadratic Programming and Tracking Control of Manipulators. *Guo, J., +, TSMC March 2021 1662-1670*
- The Set-Invariance Paradigm in Fuzzy Adaptive DSC Design of Large-Scale Nonlinear Input-Constrained Systems. *Lv, M., +, TSMC Feb. 2021 1035-1045*
- Threshold-Function-Dependent Quasi-Synchronization of Delayed Memristive Neural Networks via Hybrid Event-Triggered Control. *Yan, Z., +, TSMC Nov. 2021 6712-6722*
- Neurophysiology**
- Artificial Vision by Deep CNN Neocognitron. *Fukushima, K., TSMC Jan. 2021 76-90*
- Bidirectional Associative Memories: Unsupervised Hebbian Learning to Bidirectional Backpropagation. *Kosko, B., TSMC Jan. 2021 103-115*
- Direct-Sense Brain-Computer Interfaces and Wearable Computers. *Lin, C., +, TSMC Jan. 2021 298-312*
- Muscle-Synergies-Based Neuromuscular Control for Motion Learning and Generalization of a Musculoskeletal System. *Chen, J., +, TSMC June 2021 3993-4006*
- Vision-Assisted Autonomous Lower-Limb Exoskeleton Robot. *Liu, D., +, TSMC June 2021 3759-3770*
- Newton method**
- Large-Scale Twin Parametric Support Vector Machine Using Pinball Loss Function. *Sharma, S., +, TSMC Feb. 2021 987-1003*
- New Noise-Tolerant Neural Algorithms for Future Dynamic Nonlinear Optimization With Estimation on Hessian Matrix Inversion. *Wei, L., +, TSMC April 2021 2611-2623*
- The Effective Cooperative Diffusion Strategies With Adaptation Ability by Learning Across Adaptive Network-Wide Systems. *Xiong, N., +, TSMC July 2021 4112-4126*
- Noise measurement**
- Nonlinear Stochastic Estimators on the Special Euclidean Group SE(3) Using Uncertain IMU and Vision Measurements. *Hashim, H.A., +, TSMC Dec. 2021 7587-7600*
- Non-Newtonian flow**
- Bleeding Simulation With Improved Visual Effects for Surgical Simulation Systems. *Shi, W., +, TSMC Feb. 2021 686-695*
- Non-Newtonian fluids**
- Bleeding Simulation With Improved Visual Effects for Surgical Simulation Systems. *Shi, W., +, TSMC Feb. 2021 686-695*
- Nonlinear control systems**
- A Control-Theoretic Study on Iterative Solution to Control Allocation for Over-Actuated Aircraft. *Cui, L., +, TSMC June 2021 3429-3439*
- A Disturbance Rejection Framework for Finite-Time and Fixed-Time Stabilization of Delayed Memristive Neural Networks. *Wang, L., +, TSMC Feb. 2021 905-915*
- A Dynamic Event-Triggered Approach to H_∞ Control for Discrete-Time Singularly Perturbed Systems With Time-Delays and Sensor Saturations. *Ma, L., +, TSMC Nov. 2021 6614-6625*
- A Finite-Time Control for a Pneumatic Cylinder Servo System Based on a Super-Twisting Extended State Observer. *Zhao, L., +, TSMC Feb. 2021 1164-1173*
- A Fuzzy Lyapunov Function Approach to Positive L_1 Observer Design for Positive Fuzzy Semi-Markovian Switching Systems With Its Application. *Qi, W., +, TSMC Feb. 2021 775-785*
- A New Filter Design Method for a Class of Fuzzy Systems With Time Delays. *Lian, Z., +, TSMC Oct. 2021 6477-6487*
- A New Fixed-Time Consensus Tracking Approach for Second-Order Multi-agent Systems Under Directed Communication Topology. *Ni, J., +, TSMC April 2021 2488-2500*
- A Noise-Enduring and Finite-Time Zeroing Neural Network for Equality-Constrained Time-Varying Nonlinear Optimization. *Xiao, L., +, TSMC Aug. 2021 4729-4740*
- A Novel Finite-Time Control for Nonstrict Feedback Saturated Nonlinear Systems With Tracking Error Constraint. *Sun, K., +, TSMC June 2021 3968-3979*
- A Novel Robust Control Method for Motion Control of Uncertain Single-Link Flexible-Joint Manipulator. *Yan, Z., +, TSMC March 2021 1671-1678*
- A Novel Synchronization Protocol for Nonlinear Stochastic Dynamical Networked Systems. *Gu, H., +, TSMC May 2021 2676-2686*
- A Prediction-Based Approach to Distributed Filtering With Missing Measurements and Communication Delays Through Sensor Networks. *Hu, J., +, TSMC Nov. 2021 7063-7074*
- A Robust Hybrid of a Feedback Linearization Technique and an Interval Type-2 Fuzzy Control System for the Flapping Angle Dynamics of a Biomimetic Aircraft. *Santoso, F., +, TSMC Sept. 2021 5664-5673*
- Adaptive Asymptotic Tracking for a Class of Uncertain Switched Positive Compartmental Models With Application to Anesthesia. *Lv, M., +, TSMC Aug. 2021 4936-4942*
- Adaptive Command Filtered Neuro-Fuzzy Control Design for Fractional-Order Nonlinear Systems With Unknown Control Directions and Input Quantization. *Song, S., +, TSMC Nov. 2021 7238-7249*
- Adaptive Compensation of Persistent Actuator Failures Using Control-Separation-Based LQ Design. *Wen, L., +, TSMC Aug. 2021 5030-5045*
- Adaptive Control of Full-State Constrained High-Order Nonlinear Systems With Time-Varying Powers. *Guo, C., +, TSMC Aug. 2021 5189-5197*

- Adaptive Estimation of Time-Varying Parameters With Application to Roto-Magnet Plant. *Na, J.*, +, *TSMC Feb. 2021 731-741*
- Adaptive Event-Triggered and Double-Quantized Consensus of Leader-Follower Multiagent Systems With Semi-Markovian Jump Parameters. *Gong, C.*, +, *TSMC Sept. 2021 5867-5879*
- Adaptive Finite-Time Fuzzy Funnel Control for Nonaffine Nonlinear Systems. *Liu, C.*, +, *TSMC May 2021 2894-2903*
- Adaptive Finite-Time Saturated Tracking Control for a Class of Partially Known Robots. *Hwang, C.*, +, *TSMC Sept. 2021 5674-5685*
- Adaptive Finite-Time Tracking Control for Continuous Stirred Tank Reactor With Time-Varying Output Constraint. *Li, D.*, +, *TSMC Sept. 2021 5929-5934*
- Adaptive Fixed-Time Control of Error-Constrained Pure-Feedback Interconnected Nonlinear Systems. *Zhou, Q.*, +, *TSMC Oct. 2021 6369-6380*
- Adaptive High-Order Terminal Sliding Mode Control Based on Time Delay Estimation for the Robotic Manipulators With Backlash Hysteresis. *Ahmed, S.*, +, *TSMC Feb. 2021 1128-1137*
- Adaptive Intelligent Control for Input and Output Constrained High-Order Uncertain Nonlinear Systems. *Sun, W.*, +, *TSMC Sept. 2021 5577-5586*
- Adaptive Leaderless Consensus Control of Strict-Feedback Nonlinear Multiagent Systems With Unknown Control Directions. *Rezaee, H.*, +, *TSMC Oct. 2021 6435-6444*
- Adaptive Neural Discrete-Time Fractional-Order Control for a UAV System With Prescribed Performance Using Disturbance Observer. *Shao, S.*, +, *TSMC Feb. 2021 742-754*
- Adaptive Neural Network Control Design for Uncertain Nonstrict Feedback Nonlinear System With State Constraints. *Ma, L.*, +, *TSMC June 2021 3678-3686*
- Adaptive Neural Network-Based Finite-Time Tracking Control for Nonstrict Nonaffined MIMO Nonlinear Systems. *Li, S.*, +, *TSMC Aug. 2021 4814-4824*
- Adaptive Neural Tracking Control Scheme of Switched Stochastic Nonlinear Pure-Feedback Nonlower Triangular Systems. *Niu, B.*, +, *TSMC Feb. 2021 975-986*
- Adaptive NN Cooperative Control of Unknown Nonlinear Multiagent Systems With Communication Delays. *Psillakis, H.E.*, *TSMC Sept. 2021 5311-5321*
- Adaptive NN Cross Backstepping Control for Nonlinear Systems With Partial Time-Varying State Constraints and Its Applications to Hyper-Chaotic Systems. *Li, D.*, +, *TSMC May 2021 2821-2832*
- Adaptive Nonlinear Hierarchical Control for a Rotorcraft Transporting a Cable-Suspended Payload. *Liang, X.*, +, *TSMC July 2021 4171-4182*
- Adaptive Path Following Control of Unmanned Surface Vehicles Considering Environmental Disturbances and System Constraints. *Liu, Z.*, +, *TSMC Jan. 2021 339-353*
- Adaptive Quantized Control of Output Feedback Nonlinear Systems With Input Unmodeled Dynamics Based on Backstepping and Small-Gain Method. *Xia, X.*, +, *TSMC Sept. 2021 5686-5697*
- Adaptive Sliding Mode Fault-Tolerant Fuzzy Tracking Control With Application to Unmanned Marine Vehicles. *Wang, Y.*, +, *TSMC Nov. 2021 6691-6700*
- Adaptive Tracking for Uncertain MIMO Nonlinear Systems With Time-Varying Parameters and Bounded Disturbance. *Zhang, Z.*, +, *TSMC July 2021 4479-4491*
- Adaptive Vehicle Stability Control of Half-Car Active Suspension Systems With Partial Performance Constraints. *Zeng, Q.*, +, *TSMC March 2021 1704-1714*
- Adaptively Synchronize the Derivative Coupled Complex Networks With Proportional Delay. *Tang, Z.*, +, *TSMC Aug. 2021 4969-4979*
- Annular Domain Finite-Time Connective Control for Large-Scale Systems With Expanding Construction. *Liu, Y.*, +, *TSMC Oct. 2021 6159-6169*
- Asymmetric Bounded Neural Control for an Uncertain Robot by State Feedback and Output Feedback. *Kong, L.*, +, *TSMC March 2021 1735-1746*
- Asymptotic Stability and Synchronization of Fractional-Order Neural Networks With Unbounded Time-Varying Delays. *Zhang, F.*, +, *TSMC Sept. 2021 5547-5556*
- Asynchronous Finite-Time Filtering of Markov Jump Nonlinear Systems and Its Applications. *Ren, H.*, +, *TSMC March 2021 1725-1734*
- Bank of High-Gain Observers in Output Feedback Control: Robustness Analysis Against Measurement Noise. *Esfandiari, K.*, +, *TSMC April 2021 2476-2487*
- Boundary Output Constrained Control for a Flexible Beam System With Prescribed Performance. *Zhao, Z.*, +, *TSMC Aug. 2021 4650-4658*
- Cluster Event-Triggered Tracking Cooperative and Formation Control for Multivehicle Systems: An Extended Magnification Region Condition. *Wang, B.*, *TSMC May 2021 3229-3239*
- Command Filter-Based Adaptive Fuzzy Control for Nonlinear Systems With Unknown Control Directions. *Xia, J.*, +, *TSMC March 2021 1945-1953*
- Command Filter-Based Adaptive Prescribed Performance Tracking Control for Stochastic Uncertain Nonlinear Systems. *Sun, W.*, +, *TSMC Oct. 2021 6555-6563*
- Command Filtered Backstepping-Based Attitude Containment Control for Spacecraft Formation. *Zhao, L.*, +, *TSMC Feb. 2021 1278-1287*
- Consensus of Multiagent Systems With Delayed Node Dynamics and Time-Varying Coupling. *Jia, Q.*, +, *TSMC June 2021 3320-3329*
- Consensus of Multiagent Systems With Relative State Saturations. *Chu, H.*, +, *TSMC April 2021 2391-2402*
- Consensus of Multiagent Systems With Time-Varying Input Delay and Relative State Saturation Constraints. *Chu, H.*, +, *TSMC Nov. 2021 6938-6944*
- Consensus of One-Sided Lipschitz Multiagents Under Switching Topologies. *Razaq, M.A.*, +, *TSMC March 2021 1485-1495*
- Control Design for Uncertain Switched Nonlinear Systems: Adaptive Neural Approach. *Liu, Z.*, +, *TSMC April 2021 2322-2331*
- Cooperative Consensus for Heterogeneous Nonlinear Multiagent Systems Under a Leader Having Bounded Unknown Inputs. *Wang, B.*, *TSMC Nov. 2021 7075-7086*
- Cooperative Control of Multiple High-Order Agents With Nonidentical Unknown Control Directions Under Fixed and Time-Varying Topologies. *Wang, Q.*, +, *TSMC April 2021 2582-2591*
- Cooperative Moving-Target Enclosing Control for Multiple Nonholonomic Vehicles Using Feedback Linearization Approach. *Peng, X.*, +, *TSMC Aug. 2021 4929-4935*
- Cooperative Target Enclosing Control of Multiple Mobile Robots Subject to Input Disturbances. *Yu, X.*, +, *TSMC June 2021 3440-3449*
- Decentralized Event-Triggered Tracking of a Class of Uncertain Interconnected Nonlinear Systems Using Minimal Function Approximators. *Choi, Y.H.*, +, *TSMC March 2021 1766-1778*
- Design of Interval Type-2 Fuzzy-Based Sampled-Data Controller for Nonlinear Systems Using Novel Fuzzy Lyapunov Functional and its Application to PMSM. *Shanmugam, L.*, +, *TSMC Jan. 2021 542-551*
- Design of Observer-Based Event-Triggered Fuzzy ISMC for T-S Fuzzy Model and its Application to PMSG. *Mani, P.*, +, *TSMC April 2021 2221-2231*
- Design of Output-Based Finite-Time Convergent Composite Controller for a Class of Perturbed Second-Order Nonlinear Systems. *Zhu, W.*, +, *TSMC Nov. 2021 6768-6778*
- Design of Sliding-Mode-Based Control for Nonlinear Systems With Mixed-Delays and Packet Losses Under Uncertain Missing Probability. *Hu, J.*, +, *TSMC May 2021 3217-3228*
- Distributed Adaptive Tracking Control for Lur'e Systems With Event-Triggered Strategy. *Wu, Z.*, +, *TSMC May 2021 3263-3269*
- Distributed Containment Control of MIMO Pure-Feedback Multiagent Systems Using Filter-Driven-Approximation Approach. *Choi, Y.H.*, +, *TSMC Sept. 2021 5490-5502*
- Distributed Containment Maneuvering of Uncertain Multiagent Systems in MIMO Strict-Feedback Form. *Zhang, Y.*, +, *TSMC Feb. 2021 1354-1364*
- Distributed Continuous-Time Optimization of Second-Order Multiagent Systems With Nonconvex Input Constraints. *Mo, L.*, +, *TSMC Oct. 2021 6404-6413*
- Distributed Control of Networked Nonlinear Systems via Interconnected Takagi-Sugeno Fuzzy Systems With Nonlinear Consequent. *Araujo, R.F.*, +, *TSMC Aug. 2021 4858-4867*

- Distributed Lyapunov-Based Model Predictive Formation Tracking Control for Autonomous Underwater Vehicles Subject to Disturbances. *Wei, H., +, TSMC Aug. 2021 5198-5208*
- Distributed Optimal Consensus Control for a Class of Uncertain Nonlinear Multiagent Networks With Disturbance Rejection Using Adaptive Technique. *Wang, D., +, TSMC July 2021 4389-4399*
- Distributed Optimal Observer Design of Networked Systems via Adaptive Critic Design. *Fu, H., +, TSMC Nov. 2021 6976-6985*
- Distributed Output-Feedback Tracking of Multiple Nonlinear Systems With Unmeasurable States. *Li, W., +, TSMC Jan. 2021 477-486*
- Distributed Robust Adaptive Optimization for Nonlinear Multiagent Systems. *Liu, Y., +, TSMC Feb. 2021 1046-1053*
- Distributed-Observer-Based Nash Equilibrium Seeking Algorithm for Quadratic Games With Nonlinear Dynamics. *Huang, B., +, TSMC Nov. 2021 7260-7268*
- Echo State Network-Based Decentralized Control of Continuous-Time Nonlinear Large-Scale Interconnected Systems. *Zhang, H., +, TSMC Oct. 2021 6293-6303*
- Estimate-Based Dynamic Event-Triggered Output Feedback Control of Networked Nonlinear Uncertain Systems. *Sun, J., +, TSMC May 2021 3148-3158*
- Event-Based Distributed Adaptive Kalman Filtering With Unknown Covariance of Process Noises. *Mao, J., +, TSMC Oct. 2021 6170-6182*
- Event-Based Formation Coordinated Control for Multiple Spacecraft Under Communication Constraints. *Hu, Q., +, TSMC May 2021 3168-3179*
- Event-Driven Fault Detection for Discrete-Time Interval Type-2 Fuzzy Systems. *Pan, Y., +, TSMC Aug. 2021 4959-4968*
- Event-Triggered Adaptive Output Feedback Control of Multivariable Systems With Nonsmooth Actuator Nonlinearities. *Yang, Y., +, TSMC Sept. 2021 5557-5566*
- Event-Triggered Control for a Class of Nonlinear Multiagent Systems With Directed Graph. *Li, Z., +, TSMC Nov. 2021 6986-6993*
- Event-Triggered Control for Multiagent Systems With Sensor Faults and Input Saturation. *Cao, L., +, TSMC June 2021 3855-3866*
- Event-Triggered Control for Output Regulation of Probabilistic Logical Systems With Delays. *He, J., +, TSMC Nov. 2021 6842-6851*
- Event-Triggered Distributed H_∞ Constrained Control of Physically Interconnected Large-Scale Partially Unknown Strict-Feedback Systems. *Tan, L.N., TSMC April 2021 2444-2456*
- Event-Triggered H_∞ Depth Control of Remotely Operated Underwater Vehicles. *Batmani, Y., +, TSMC Feb. 2021 1224-1232*
- Event-Triggered Model-Free Adaptive Control. *Lin, N., +, TSMC June 2021 3358-3369*
- Event-Triggered Prescribed Performance Control for a Class of Unknown Nonlinear Systems. *Zhang, J., +, TSMC Oct. 2021 6576-6586*
- Event-Triggered Robust Output Regulation of Uncertain Linear Systems With Unknown Exosystems. *Qian, Y., +, TSMC July 2021 4139-4148*
- Event-Triggered Security Output Feedback Control for Networked Interconnected Systems Subject to Cyber-Attacks. *Gu, Z., +, TSMC Oct. 2021 6197-6206*
- Experimental Output Regulation of Linear Motor Driven Inverted Pendulum With Friction Compensation. *Ping, Z., +, TSMC June 2021 3751-3758*
- Extended State Observer-Based Data-Driven Iterative Learning Control for Permanent Magnet Linear Motor With Initial Shifts and Disturbances. *Hui, Y., +, TSMC March 2021 1881-1891*
- Fault-Tolerant Control of Multilayer Interconnected Nonlinear Systems: An Inclusion Principle Approach. *Xu, Y., +, TSMC April 2021 2403-2414*
- Fault-Tolerant Fuzzy Formation Control for a Class of Nonlinear Multiagent Systems Under Directed and Switching Topology. *Deng, C., +, TSMC Sept. 2021 5456-5465*
- Finite-Time Stabilization of High-Order Stochastic Nonlinear Systems With Asymmetric Output Constraints. *Fang, L., +, TSMC Nov. 2021 7201-7213*
- Finite-Time State Estimation for Delayed Neural Networks With Redundant Delayed Channels. *Zhao, Z., +, TSMC Jan. 2021 441-451*
- Finite-Time Synchronization of Memristive Neural Networks With Fractional-Order. *Yang, S., +, TSMC June 2021 3739-3750*
- Fixed-Time Active Disturbance Rejection Control and Its Application to Wheeled Mobile Robots. *Chang, S., +, TSMC Nov. 2021 7120-7130*
- Funnel Control of Uncertain High-Order Nonlinear Systems With Unknown Rational Powers. *Liu, Y., +, TSMC Sept. 2021 5732-5741*
- Further Results on Fixed-Time Stabilization and Tracking Control of a Marine Surface Ship Subjected to Output Constraints. *Zhang, Z., +, TSMC Sept. 2021 5300-5310*
- Fuzzy Adaptive Fault-Tolerant Control of Fractional-Order Nonlinear Systems. *Li, Y., +, TSMC March 2021 1372-1379*
- Fuzzy Adaptive Tracking Control for State Constraint Switched Stochastic Nonlinear Systems With Unstable Inverse Dynamics. *Wu, W., +, TSMC Sept. 2021 5522-5534*
- Fuzzy Finite-Time Tracking Control for a Class of Nonaffine Nonlinear Systems With Unknown Dead Zones. *Bao, J., +, TSMC Jan. 2021 452-463*
- Fuzzy-Affine-Model-Based Output Feedback Dynamic Sliding Mode Controller Design of Nonlinear Systems. *Ji, W., +, TSMC March 2021 1652-1661*
- Global Adaptive Control for Uncertain Nonlinear Systems With Sensor and Actuator Faults. *Ma, J., +, TSMC Sept. 2021 5503-5510*
- Global Consensus of Positive Edge System With Sector Input Nonlinearities. *Wu, H., +, TSMC July 2021 4057-4066*
- Global Event-Triggered Output Feedback Stabilization of a Class of Nonlinear Systems. *Cheng, Y., +, TSMC July 2021 4040-4047*
- Global Output Feedback Sampled-Data Stabilization of a Class of Switched Nonlinear Systems in the p-Normal Form. *Li, S., +, TSMC Feb. 2021 1075-1084*
- Gradient Descent Algorithm-Based Adaptive NN Control Design for an Induction Motor. *Yang, X., +, TSMC Feb. 2021 1027-1034*
- H_∞ Filtering of Repeated Scalar Nonlinear Systems: Event-Triggered Communication Case. *Li, J., +, TSMC June 2021 3392-3400*
- Hamiltonian-Driven Hybrid Adaptive Dynamic Programming. *Yang, Y., +, TSMC Oct. 2021 6423-6434*
- HMM-Based Asynchronous Controller Design of Markovian Jumping Lur'e Systems Within a Finite-Time Interval. *Nie, R., +, TSMC Nov. 2021 6885-6891*
- Hybrid Disturbance Observer-Based Anti-Disturbance Composite Control With Applications to Mars Landing Mission. *Xu, J., +, TSMC May 2021 2885-2893*
- Hybrid PD-Fuzzy and PD Controllers for Trajectory Tracking of a Quadrotor Unmanned Aerial Vehicle: Autopilot Designs and Real-Time Flight Tests. *Santoso, F., +, TSMC March 2021 1817-1829*
- Impedance Control for Coordinated Robots by State and Output Feedback. *Dong, Y., +, TSMC Aug. 2021 5056-5066*
- Improved Stability Criteria for Discrete-Time Switched T-S Fuzzy Systems. *Fei, Z., +, TSMC Feb. 2021 712-720*
- Impulsive Stabilization of Nonlinear Time-Delay System With Input Saturation via Delay-Dependent Polytopic Approach. *Li, H., +, TSMC Nov. 2021 7087-7098*
- Input-Output Finite-Time Estimation for Complex Networks With Switching Topology Under Dynamic Event-Triggered Transmission. *Sang, H., +, TSMC Oct. 2021 6513-6522*
- Input-Output Finite-Time Reliable Static Output Control of Time-Varying System With Input Delay. *Chen, M., +, TSMC Feb. 2021 1334-1344*
- Input-Output Finite-Time Sliding-Mode Control for T-S Fuzzy Systems With Application. *Qi, W., +, TSMC Sept. 2021 5446-5455*
- Input-to-State Stability of Nonlinear Systems Using Observer-Based Event-Triggered Impulsive Control. *Li, X., +, TSMC Nov. 2021 6892-6900*
- Integrated Synchronization and Anti-Disturbance Control Design for Fuzzy Model-Based Multiweighted Complex Network. *Kavirasan, B., +, TSMC Oct. 2021 6330-6341*
- Intelligent Leader-Following Consensus Formation Control Using Recurrent Neural Networks for Small-Size Unmanned Helicopters. *Kuo, C., +, TSMC Feb. 2021 1288-1301*
- Interval Type-2 FNN-Based Quantized Tracking Control for Hypersonic Flight Vehicles With Prescribed Performance. *Gao, Y., +, TSMC March 2021 1981-1993*

- Knowledge-Data-Driven Model Predictive Control for a Class of Nonlinear Systems. *Han, H., +, TSMC July 2021 4492-4504*
- Leader-Follower Trajectory Control for Quadrotors via Tracking Differentiators and Disturbance Observers. *Yang, H., +, TSMC Jan. 2021 601-609*
- Local Stabilization of Continuous-Time T-S Fuzzy Systems With Partly Measurable Premise Variables and Time-Varying Delay. *Wu, Y., +, TSMC Jan. 2021 326-338*
- LPV Scheme for Robust Adaptive Output Feedback Consensus of Lipschitz Multiagents Using Lipschitz Nonlinear Protocol. *Rehman, A.u., +, TSMC Nov. 2021 7040-7050*
- Lyapunov Control Method for Mismatched Uncertainty and Gain Variation Compensation in Switched Systems. *Aghababa, M.P., TSMC July 2021 4227-4237*
- Model-Based Periodic Event-Triggered Control Strategy to Stabilize a Scalar Nonlinear System. *Dou, R., +, TSMC Sept. 2021 5322-5335*
- Moving Horizon Estimation of Networked Nonlinear Systems With Random Access Protocol. *Zou, L., +, TSMC May 2021 2937-2948*
- Neural Integral Backstepping Hierarchical Sliding Mode Control for a Ridable Ballbot Under Uncertainties and Input Saturation. *Do, V., +, TSMC Nov. 2021 7214-7227*
- Neural Network-Based Adaptive Fault-Tolerant Control for Markovian Jump Systems With Nonlinearity and Actuator Faults. *Yang, H., +, TSMC June 2021 3687-3698*
- Neural Network-Based Cooperative Identification for a Class of Unknown Nonlinear Systems via Event-Triggered Communication. *Gao, F., +, TSMC March 2021 1404-1413*
- Neural Network-Based Sampled-Data Control for Switched Uncertain Nonlinear Systems. *Li, S., +, TSMC Sept. 2021 5437-5445*
- Neural-Based Decentralized Adaptive Finite-Time Control for Nonlinear Large-Scale Systems With Time-Varying Output Constraints. *Du, P., +, TSMC May 2021 3136-3147*
- Neuro-Fuzzy-Based Adaptive Dynamic Surface Control for Fractional-Order Nonlinear Strict-Feedback Systems With Input Constraint. *Song, S., +, TSMC June 2021 3575-3586*
- Nonlinear Control of Quadrotor for Fault Tolerance: A Total Failure of One Actuator. *Wu, Y., +, TSMC May 2021 2810-2820*
- Observed-Based Finite-Time Control of Nonlinear Semi-Markovian Jump Systems With Saturation Constraint. *Tian, Y., +, TSMC Nov. 2021 6639-6649*
- Observer-Based Adaptive Event-Triggered Control for Nonstrict-Feedback Nonlinear Systems With Output Constraint and Actuator Failures. *Cao, L., +, TSMC March 2021 1380-1391*
- Observer-Based Containment Control for a Class of Nonlinear Multiagent Systems With Uncertainties. *Yang, Y., +, TSMC Jan. 2021 588-600*
- Observer-Based Finite-Time Control for Distributed Path Maneuvering of Underactuated Unmanned Surface Vehicles With Collision Avoidance and Connectivity Preservation. *Gu, N., +, TSMC Aug. 2021 5105-5115*
- On the Principle and Applications of Conditional Disturbance Negation. *Pu, Z., +, TSMC Nov. 2021 6757-6767*
- Optimal Output Synchronization Control of a Class of Complex Dynamical Networks With Partially Unknown System Dynamics. *Wang, N., +, TSMC Feb. 2021 822-832*
- Output Tracking of Uncertain Nonminimum Phase Systems by Experience Replay. *Ye, L., +, TSMC May 2021 3159-3167*
- Output-Based Containment Control for Uncertain Nonaffine Nonlinear Multiagent Systems. *Yang, Y., +, TSMC Oct. 2021 5992-6002*
- Output-Feedback Adaptive Control of Nonlinear Systems With Input-Output-Dependent Lower-Triangular Growth Rate: A Logic-Based Switching Approach. *Huang, C., +, TSMC Aug. 2021 4804-4813*
- Passivity-Based Fuzzy ISMC for Wind Energy Conversion Systems With PMSG. *Subramaniam, R., +, TSMC April 2021 2212-2220*
- Policy-Iteration-Based Learning for Nonlinear Player Game Systems With Constrained Inputs. *Mu, C., +, TSMC Oct. 2021 6488-6502*
- Position-Tracking Controller for Two-Wheeled Balancing Robot Applications Using Invariant Dynamic Surface. *Kim, S., +, TSMC Feb. 2021 705-711*
- Prediction-Fuzzy Seabed Terrain Following Control for an Underwater Vehicle-Manipulator System. *Cai, M., +, TSMC Aug. 2021 4751-4760*
- Prescribed Performance Neuroadaptive Fault-Tolerant Compensation for MIMO Nonlinear Systems Under Extreme Actuator Failures. *Zhou, S., +, TSMC Sept. 2021 5427-5436*
- Quantized Decentralized Adaptive Neural Network PI Tracking Control for Uncertain Interconnected Nonlinear Systems With Dynamic Uncertainties. *Sun, H., +, TSMC May 2021 3111-3124*
- Quantized Static Output Feedback Fuzzy Tracking Control for Discrete-Time Nonlinear Networked Systems With Asynchronous Event-Triggered Constraints. *Li, Z., +, TSMC June 2021 3820-3831*
- Quasi-Consensus Control for a Class of Time-Varying Stochastic Nonlinear Time-Delay Multiagent Systems Subject to Deception Attacks. *Liu, L., +, TSMC Nov. 2021 6863-6873*
- RBFNN-Based Adaptive Iterative Learning Fault-Tolerant Control for Subway Trains With Actuator Faults and Speed Constraint. *Liu, G., +, TSMC Sept. 2021 5785-5799*
- Receding Horizon Synchronization of Delayed Neural Networks Using a Novel Inequality on Quadratic Polynomial Functions. *Lu, C., +, TSMC Oct. 2021 6085-6095*
- Reduced Adaptive Fuzzy Tracking Control for High-Order Stochastic Nonstrict Feedback Nonlinear System With Full-State Constraints. *Sun, W., +, TSMC March 2021 1496-1506*
- Reduced-Order Estimator-Based Efficient Fault-Tolerant Tracking Control Optimization for Constrained LPV Systems. *Han, K., +, TSMC Sept. 2021 5855-5866*
- Reduced-Order Observer-Based Adaptive Fuzzy Tracking Control Scheme of Stochastic Switched Nonlinear Systems. *Niu, B., +, TSMC July 2021 4566-4578*
- Reliable Fuzzy H_∞ Control for Permanent Magnet Synchronous Motor Against Stochastic Actuator Faults. *Vadivel, R., +, TSMC April 2021 2232-2245*
- Removing Feasibility Conditions on Tracking Control of Full-State Constrained Nonlinear Systems With Time-Varying Powers. *Xie, X., +, TSMC Oct. 2021 6535-6543*
- Repetitive Learning Control for Control-Affine Systems With Time Delays. *Li, H., +, TSMC Aug. 2021 5142-5152*
- RISE-Based Integrated Motion Control of Autonomous Ground Vehicles With Asymptotic Prescribed Performance. *Hu, C., +, TSMC Sept. 2021 5336-5348*
- Robust Adaptive Control for State-Constrained Nonlinear Systems With Input Saturation and Unknown Control Direction. *Wu, Y., +, TSMC Feb. 2021 1192-1202*
- Robust Adaptive Neural Control of Nonminimum Phase Hypersonic Vehicle Model. *Xu, B., +, TSMC Feb. 2021 1107-1115*
- Robust Distributed Formation Controller Design for a Group of Unmanned Underwater Vehicles. *Liu, H., +, TSMC Feb. 2021 1215-1223*
- Robust Exact Predictive Scheme for Output-Feedback Control of Input-Delay Systems With Unmatched Sinusoidal Disturbances. *Shi, S., +, TSMC Sept. 2021 5357-5366*
- Robust Fixed-Time Consensus Tracking Control of High-Order Multiple Nonholonomic Systems. *Shi, S., +, TSMC March 2021 1869-1880*
- Robust H_∞ Sliding Mode Controller Design of a Class of Time-Delayed Discrete Conic-Type Nonlinear Systems. *He, S., +, TSMC Feb. 2021 885-892*
- Robust Invariant Manifold-Based Output Voltage-Tracking Controller for DC/DC Boost Power Conversion Systems. *Kim, S., +, TSMC March 2021 1582-1589*
- Robust Model Predictive Iterative Learning Control for Iteration-Varying-Reference Batch Processes. *Liu, X., +, TSMC July 2021 4238-4250*
- Robust Particle Filtering With Time-Varying Model Uncertainty and Inaccurate Noise Covariance Matrix. *Li, W., +, TSMC Nov. 2021 7099-7108*
- Robust Resilient Control Based on Multi-Approximator for the Uncertain Turbofan System With Unmeasured States and Disturbances. *Li, Y., +, TSMC Oct. 2021 6040-6049*
- Robust Stabilization of High-Order Nonlinear Systems With Unknown Sensitivities and Applications in Humanoid Robot Manipulation. *Sun, Z., +, TSMC July 2021 4409-4416*

Robust Tracking of Nonrepetitive Learning Control Systems With Iteration-Dependent References. *Meng, D., +, TSMC Feb. 2021 842-852*

Second-Order Sliding Mode Controller Design Subject to an Upper-Triangular Structure. *Mei, K., +, TSMC Jan. 2021 497-507*

Semiglobal Observer-Based Positive Scaled Edge-Consensus of Networked Discrete-Time Systems Under Actuator Saturation. *Sun, Y., +, TSMC July 2021 4543-4554*

Sliding Mode Control for a Class of Nonlinear Singular Systems With Partly Immeasurable Premise Variables. *Sun, X., +, TSMC April 2021 2433-2443*

Sliding Mode Control for Markov Jump Systems With Delays via Asynchronous Approach. *Fang, M., +, TSMC May 2021 2916-2925*

Sliding Mode Controller Design for Conic-Type Nonlinear Semi-Markovian Jumping Systems of Time-Delayed Chua's Circuit. *Nie, R., +, TSMC April 2021 2467-2475*

Sliding-Mode Observer-Based Fault Reconstruction for T-S Fuzzy Descriptor Systems. *Li, R., +, TSMC Aug. 2021 5046-5055*

Small-Gain Technique-Based Adaptive Neural Output-Feedback Fault-Tolerant Control of Switched Nonlinear Systems With Unmodeled Dynamics. *Ma, L., +, TSMC Nov. 2021 7051-7062*

Soft-Bound Interval Control System and Its Robust Fault-Tolerant Controller Design. *Zhou, J., +, TSMC Jan. 2021 378-390*

Stability Analysis for Input Saturated Discrete-Time Switched Systems With Average Dwell-Time. *Wang, Q., +, TSMC Jan. 2021 412-419*

Stability and Stabilization for T-S Fuzzy Large-Scale Interconnected Power System With Wind Farm via Sampled-Data Control. *Shanmugam, L., +, TSMC April 2021 2134-2144*

Stabilization of Stochastic Retarded Systems Based on Sampled-Data Feedback Control. *Yang, X., +, TSMC Sept. 2021 5895-5904*

Strict Lyapunov Functions for Homogeneous Time-Varying Systems. *Zhang, B., +, TSMC March 2021 1994-2002*

Synchronization of Lurie Systems Under Limited Network Transmission Capacity With Quantization and One-Step Packet Dropout: An Active Method. *Zhou, T., +, TSMC Aug. 2021 4920-4928*

Targeting Posture Control With Dynamic Obstacle Avoidance of Constrained Uncertain Wheeled Mobile Robots Including Unknown Skidding and Slipping. *Lu, Q., +, TSMC Nov. 2021 6650-6659*

The Set-Invariance Paradigm in Fuzzy Adaptive DSC Design of Large-Scale Nonlinear Input-Constrained Systems. *Lv, M., +, TSMC Feb. 2021 1035-1045*

Time-Optimal Point Stabilization Control for WIP Vehicles Using Quasi-Convex Optimization and B-Spline Adaptive Interpolation Techniques. *Ning, Y., +, TSMC May 2021 3293-3303*

Time-Scale Redesign-Based Saturated Controller Synthesis for a Class of MIMO Nonlinear Systems. *Rayguru, M.M., +, TSMC Aug. 2021 4681-4692*

Twofold Sliding Controller Design for Uncertain Switched Nonlinear Systems. *Aghababa, M.P., TSMC Feb. 2021 1203-1214*

Unknown Dynamics Estimator-Based Output-Feedback Control for Nonlinear Pure-Feedback Systems. *Na, J., +, TSMC June 2021 3832-3843*

Variable Cut-Off Frequency Algorithm-Based Nonlinear Position Controller for Magnetic Levitation System Applications. *Kim, S., +, TSMC July 2021 4599-4605*

Vibration and Position Control of Overhead Crane With Three-Dimensional Variable Length Cable Subject to Input Amplitude and Rate Constraints. *Xing, X., +, TSMC July 2021 4127-4138*

Visual Trajectory Tracking of Wheeled Mobile Robots With Uncalibrated Camera Extrinsic Parameters. *Zhang, K., +, TSMC Nov. 2021 7191-7200*

Nonlinear dynamical systems

A Decomposition Approach for Synchronization of Heterogeneous Complex Networks. *Wang, L., +, TSMC Feb. 2021 853-863*

Asynchronous Output Feedback Control for a Class of Conic-Type Nonlinear Hidden Markov Jump Systems Within a Finite-Time Interval. *Cheng, P., +, TSMC Dec. 2021 7644-7651*

Consensus of One-Sided Lipschitz Multiagents Under Switching Topologies. *Razaq, M.A., +, TSMC March 2021 1485-1495*

Finite-Time Synchronization of Fractional-Order Complex-Variable Dynamic Networks. *Hou, T., +, TSMC July 2021 4297-4307*

H_∞ Control of Singular System Based on Stochastic Cyber-Attacks and Dynamic Event-Triggered Mechanism. *Zhang, Q., +, TSMC Dec. 2021 7510-7516*

Intermittent Control Strategy for Synchronization Analysis of Time-Varying Complex Dynamical Networks. *Wu, Y., +, TSMC May 2021 3251-3262*

Observer-Based Sampled-Data Model-Free Adaptive Control for Continuous-Time Nonlinear Nonaffine Systems With Input Rate Constraints. *Hui, Y., +, TSMC Dec. 2021 7813-7822*

Robust Time-Varying Formation Control for Tail-Sitters in Flight Mode Transitions. *Liu, D., +, TSMC July 2021 4102-4111*

Stable Adaptive Controller Based on Generalized Regression Neural Networks and Sliding Mode Control for a Class of Nonlinear Time-Varying Systems. *Al-Mahasneh, A.J., +, TSMC April 2021 2525-2535*

The Role of Reverse Edges on Consensus Performance of Chain Networks. *Hao, Y., +, TSMC March 2021 1757-1765*

Nonlinear equations

Solving Nonlinear Equation Systems by a Two-Phase Evolutionary Algorithm. *Gao, W., +, TSMC Sept. 2021 5652-5663*

Nonlinear filters

Linear and Nonlinear Regression-Based Maximum Correntropy Extended Kalman Filtering. *Liu, X., +, TSMC May 2021 3093-3102*

Minimum Error Entropy Kalman Filter. *Chen, B., +, TSMC Sept. 2021 5819-5829*

Nonlinear Pose Filters on the Special Euclidean Group SE(3) With Guaranteed Transient and Steady-State Performance. *Hashim, H.A., +, TSMC May 2021 2949-2962*

Nonlinear functions

Adaptive Command Filtered Neuro-Fuzzy Control Design for Fractional-Order Nonlinear Systems With Unknown Control Directions and Input Quantization. *Song, S., +, TSMC Nov. 2021 7238-7249*

Command Filter-Based Adaptive Fuzzy Control for Nonlinear Systems With Unknown Control Directions. *Xia, J., +, TSMC March 2021 1945-1953*

Reduced-Order Observer-Based Adaptive Fuzzy Tracking Control Scheme of Stochastic Switched Nonlinear Systems. *Niu, B., +, TSMC July 2021 4566-4578*

Nonlinear programming

Canonical Duality Theory and Algorithm for Solving Bilevel Knapsack Problems With Applications. *Gao, D.Y., TSMC Feb. 2021 893-904*

Consensus of One-Sided Lipschitz Multiagents Under Switching Topologies. *Razaq, M.A., +, TSMC March 2021 1485-1495*

New Noise-Tolerant Neural Algorithms for Future Dynamic Nonlinear Optimization With Estimation on Hessian Matrix Inversion. *Wei, L., +, TSMC April 2021 2611-2623*

Nonlinear systems

H_∞ Filtering for Nonhomogeneous Markovian Jump Repeated Scalar Nonlinear Systems With Multiplicative Noises and Partially Mode-Dependent Characterization. *Hua, M., +, TSMC May 2021 3180-3192*

Adaptive Backstepping Control for Fractional-Order Nonlinear Systems With External Disturbance and Uncertain Parameters Using Smooth Control. *Li, X., +, TSMC Dec. 2021 7860-7869*

Adaptive Dynamic Surface Fuzzy Control for State Constrained Time-Delay Nonlinear Nonstrict Feedback Systems With Unknown Control Directions. *Sun, W., +, TSMC Dec. 2021 7423-7434*

Adaptive Finite-Time Fuzzy Funnel Control for Nonaffine Nonlinear Systems. *Liu, C., +, TSMC May 2021 2894-2903*

Adaptive Finite-Time Tracking Control for Continuous Stirred Tank Reactor With Time-Varying Output Constraint. *Li, D., +, TSMC Sept. 2021 5929-5934*

Adaptive Fixed-Time Control of Error-Constrained Pure-Feedback Interconnected Nonlinear Systems. *Zhou, Q., +, TSMC Oct. 2021 6369-6380*

Adaptive NN Cross Backstepping Control for Nonlinear Systems With Partial Time-Varying State Constraints and Its Applications to Hyper-Chaotic Systems. *Li, D., +, TSMC May 2021 2821-2832*

Adaptive Sliding Mode Control for Uncertain Active Suspension Systems With Prescribed Performance. *Liu, Y., +, TSMC Oct. 2021 6414-6422*

ADP-Based Robust Resilient Control of Partially Unknown Nonlinear Systems via Cooperative Interaction Design. *Huang, X., +, TSMC Dec. 2021 7466-7474*

- Command Filter-Based Adaptive Prescribed Performance Tracking Control for Stochastic Uncertain Nonlinear Systems. *Sun, W., +, TSMC Oct. 2021 6555-6563*
- Design of Output-Based Finite-Time Convergent Composite Controller for a Class of Perturbed Second-Order Nonlinear Systems. *Zhu, W., +, TSMC Nov. 2021 6768-6778*
- Distributed Control of Networked Nonlinear Systems via Interconnected Takagi–Sugeno Fuzzy Systems With Nonlinear Consequent. *Araujo, R.F., +, TSMC Aug. 2021 4858-4867*
- Estimating Minimal Domains of Attraction for Uncertain Nonlinear Systems. *Wang, S., +, TSMC Dec. 2021 7776-7787*
- Event-Triggered Optimal Control for Discrete-Time Switched Nonlinear Systems With Constrained Control Input. *Han, X., +, TSMC Dec. 2021 7850-7859*
- Fault Detection for Lipschitz Nonlinear Systems With Restricted Frequency-Domain Specifications. *Li, J., +, TSMC Dec. 2021 7486-7496*
- Global Output Feedback Sampled-Data Stabilization of a Class of Switched Nonlinear Systems in the p-Normal Form. *Li, S., +, TSMC Feb. 2021 1075-1084*
- Global Predefined Time and Accuracy Adaptive Neural Network Control for Uncertain Strict-Feedback Systems With Output Constraint and Dead Zone. *Ni, J., +, TSMC Dec. 2021 7903-7918*
- Networked Dual-Mode Adaptive Horizon MPC for Constrained Nonlinear Systems. *Li, P., +, TSMC Dec. 2021 7435-7449*
- NN-Based Adaptive Tracking Control of Discrete-Time Nonlinear Systems With Actuator Saturation and Event-Triggering Protocol. *Wang, M., +, TSMC Dec. 2021 7613-7621*
- Observer-Based Interval Type-2 $L_2 - L_\infty/H_\infty$ Mixed Fuzzy Control for Uncertain Nonlinear Systems Under Measurement Outliers. *Zhang, Z., +, TSMC Dec. 2021 7652-7662*
- Output Feedback and Stability Analysis of Positive Polynomial Fuzzy Systems. *Meng, A., +, TSMC Dec. 2021 7707-7718*
- Quantized Decentralized Adaptive Neural Network PI Tracking Control for Uncertain Interconnected Nonlinear Systems With Dynamic Uncertainties. *Sun, H., +, TSMC May 2021 3111-3124*
- Reduced-Order Observer-Based Adaptive Fuzzy Tracking Control Scheme of Stochastic Switched Nonlinear Systems. *Niu, B., +, TSMC July 2021 4566-4578*
- Removing Feasibility Conditions on Tracking Control of Full-State Constrained Nonlinear Systems With Time-Varying Powers. *Xie, X., +, TSMC Oct. 2021 6535-6543*
- Sliding Mode Control of Interval Type-2 Fuzzy Systems Under Round-Robin Scheduling Protocol. *Zhang, Z., +, TSMC Dec. 2021 7602-7612*
- Stability Analysis of Discrete-Time Polynomial Fuzzy-Model-Based Control Systems With Time Delay and Positivity Constraints Through Piecewise Taylor Series Membership Functions. *Li, X., +, TSMC Dec. 2021 7517-7529*
- Numerical analysis**
- Adaptive Iterative Learning Control for High-Speed Train: A Multi-Agent Approach. *Huang, D., +, TSMC July 2021 4067-4077*
- Adaptively Synchronize the Derivative Coupled Complex Networks With Proportional Delay. *Tang, Z., +, TSMC Aug. 2021 4969-4979*
- Bleeding Simulation With Improved Visual Effects for Surgical Simulation Systems. *Shi, W., +, TSMC Feb. 2021 686-695*
- Finite-Time Synchronization of Fractional-Order Complex-Variable Dynamic Networks. *Hou, T., +, TSMC July 2021 4297-4307*
- Fixed-Time Cooperative Relay Tracking in Multiagent Surveillance Networks. *Du, S., +, TSMC Jan. 2021 487-496*
- Fractional-Order PID Controller Synthesis for Bifurcation of Fractional-Order Small-World Networks. *Xiao, M., +, TSMC July 2021 4334-4346*
- Intermittent Control Strategy for Synchronization Analysis of Time-Varying Complex Dynamical Networks. *Wu, Y., +, TSMC May 2021 3251-3262*
- Necessary and Sufficient Conditions for Consensus in Fractional-Order Multiagent Systems via Sampled Data Over Directed Graph. *Su, H., +, TSMC April 2021 2501-2511*
- Synchronization on Lur'e Cluster Networks With Proportional Delay: Impulsive Effects Method. *Tang, Z., +, TSMC July 2021 4555-4565*
- Numerical models**
- Composite Decision Makers in the Graph Model for Conflict Resolution: Hesitant Fuzzy Preference Modeling. *Wu, N., +, TSMC Dec. 2021 7889-7902*
- Numerical stability**
- A Hybrid Sliding Mode Control Scheme of Markovian Jump Systems via Transition Rates Optimal Design. *Cao, Z., +, TSMC Dec. 2021 7752-7763*
- Composite Decision Makers in the Graph Model for Conflict Resolution: Hesitant Fuzzy Preference Modeling. *Wu, N., +, TSMC Dec. 2021 7889-7902*
- Stability Analysis of Discrete-Time Polynomial Fuzzy-Model-Based Control Systems With Time Delay and Positivity Constraints Through Piecewise Taylor Series Membership Functions. *Li, X., +, TSMC Dec. 2021 7517-7529*
- Nyquist criterion**
- Stepsize Interval Confirmation of General Four-Step DTZN Algorithm Illustrated With Future Quadratic Programming and Tracking Control of Manipulators. *Guo, J., +, TSMC March 2021 1662-1670*
- O**
- Object detection**
- A Real-Time Robotic Grasping Approach With Oriented Anchor Box. *Zhang, H., +, TSMC May 2021 3014-3025*
- A Visual Leader-Following Approach With a T-D-R Framework for Quadrupeped Robots. *Pang, L., +, TSMC April 2021 2342-2354*
- Adaptive Pulsatile Plane for Robust Noncontact Heart Rate Monitoring. *Tran, Q., +, TSMC Sept. 2021 5587-5599*
- An Efficient Method to Recover Relative Pose for Vehicle-Mounted Cameras Under Planar Motion. *Zhang, X., +, TSMC Feb. 2021 1138-1148*
- Global and Local-Contrast Guides Content-Aware Fusion for RGB-D Saliency Prediction. *Zhou, W., +, TSMC June 2021 3641-3649*
- Integrating Structural Symmetry and Local Homoplasmy Information in Intuitionistic Fuzzy Clustering for Infrared Pedestrian Segmentation. *Jin, D., +, TSMC July 2021 4365-4378*
- IWSCR: An Intelligent Water Surface Cleaner Robot for Collecting Floating Garbage. *Kong, S., +, TSMC Oct. 2021 6358-6368*
- Modular Lightweight Network for Road Object Detection Using a Feature Fusion Approach. *Liu, Y., +, TSMC Aug. 2021 4716-4728*
- Multialgorithm Fusion Image Processing for High Speed Railway Dropper Failure–Defect Detection. *Tan, P., +, TSMC July 2021 4466-4478*
- Multilabel Image Classification via Feature/Label Co-Projection. *Wen, S., +, TSMC Nov. 2021 7250-7259*
- Multisensor-Based Navigation and Control of a Mobile Service Robot. *Yuan, W., +, TSMC April 2021 2624-2634*
- Quality Inspection Based on Quadrangular Object Detection for Deep Aperture Component. *Zhang, J., +, TSMC Oct. 2021 5938-5948*
- Object recognition**
- A Novel Approach to Image-Sequence-Based Mobile Robot Place Recognition. *Yuan, J., +, TSMC Sept. 2021 5377-5391*
- Multilabel Image Classification via Feature/Label Co-Projection. *Wen, S., +, TSMC Nov. 2021 7250-7259*
- Robust 3-D Object Recognition via View-Specific Constraint. *Liu, H., +, TSMC Nov. 2021 7109-7119*
- Zero-Shot Learning Based on Multitask Extended Attribute Groups. *Wang, X., +, TSMC March 2021 2003-2011*
- Object tracking**
- A Visual Leader-Following Approach With a T-D-R Framework for Quadrupeped Robots. *Pang, L., +, TSMC April 2021 2342-2354*
- Device-Free Orientation Detection Based on CSI and Visibility Graph. *Wu, S., +, TSMC July 2021 4433-4442*
- Fusing Skeleton Recognition With Face-TLD for Human Following of Mobile Service Robots. *Yuan, J., +, TSMC May 2021 2963-2979*
- Observers**
- H_∞ Control for Observer-Based Non-Negative Scaled Edge-Consensus of Networked Systems. *Sun, Y., +, TSMC Dec. 2021 7801-7812*

- A Finite-Time Control for a Pneumatic Cylinder Servo System Based on a Super-Twisting Extended State Observer. *Zhao, L., +, TSMC Feb. 2021 1164-1173*
- A Fuzzy Lyapunov Function Approach to Positive L_1 Observer Design for Positive Fuzzy Semi-Markovian Switching Systems With Its Application. *Qi, W., +, TSMC Feb. 2021 775-785*
- A New Fixed-Time Consensus Tracking Approach for Second-Order Multi-agent Systems Under Directed Communication Topology. *Ni, J., +, TSMC April 2021 2488-2500*
- Abnormal Source Identification for Parabolic Distributed Parameter Systems. *Feng, Y., +, TSMC Sept. 2021 5698-5707*
- Active Fault-Tolerant Control for Discrete Vehicle Active Suspension Via Reduced-Order Observer. *Han, S., +, TSMC Nov. 2021 6701-6711*
- Adaptive Neural Discrete-Time Fractional-Order Control for a UAV System With Prescribed Performance Using Disturbance Observer. *Shao, S., +, TSMC Feb. 2021 742-754*
- Adaptive Neural Sliding Mode Control for Singular Semi-Markovian Jump Systems Against Actuator Attacks. *Cao, Z., +, TSMC March 2021 1523-1533*
- Attitude Exponential Stabilization Control of Rigid Bodies via Disturbance Observer. *Xiao, B., +, TSMC May 2021 2751-2759*
- Bank of High-Gain Observers in Output Feedback Control: Robustness Analysis Against Measurement Noise. *Esfandiari, K., +, TSMC April 2021 2476-2487*
- Boundary Disturbance Observer-Based Control of a Vibrating Single-Link Flexible Manipulator. *Zhao, Z., +, TSMC April 2021 2382-2390*
- Boundary Output Constrained Control for a Flexible Beam System With Prescribed Performance. *Zhao, Z., +, TSMC Aug. 2021 4650-4658*
- Control Design for Uncertain Switched Nonlinear Systems: Adaptive Neural Approach. *Liu, Z., +, TSMC April 2021 2322-2331*
- Cooperative Moving-Target Enclosing Control for Multiple Nonholonomic Vehicles Using Feedback Linearization Approach. *Peng, X., +, TSMC Aug. 2021 4929-4935*
- Coordinated Control of Underwater Biomimetic Vehicle-Manipulator System for Free Floating Autonomous Manipulation. *Cai, M., +, TSMC Aug. 2021 4793-4803*
- Design and Implementation of Observer-Based Sliding Mode for Underactuated Rendezvous System. *Du, C., +, TSMC Oct. 2021 6003-6014*
- Design of Observer-Based Event-Triggered Fuzzy ISMC for T-S Fuzzy Model and its Application to PMSG. *Mani, P., +, TSMC April 2021 2221-2231*
- Design of Output-Based Finite-Time Convergent Composite Controller for a Class of Perturbed Second-Order Nonlinear Systems. *Zhu, W., +, TSMC Nov. 2021 6768-6778*
- Distributed Bipartite Consensus of Linear Multiagent Systems Based on Event-Triggered Output Feedback Control Scheme. *Cai, Y., +, TSMC Nov. 2021 6743-6756*
- Distributed Formation Control of Nonholonomic Wheeled Mobile Robots Subject to Longitudinal Slippage Constraints. *Wang, Z., +, TSMC May 2021 2992-3003*
- Distributed Lyapunov-Based Model Predictive Formation Tracking Control for Autonomous Underwater Vehicles Subject to Disturbances. *Wei, H., +, TSMC Aug. 2021 5198-5208*
- Distributed Optimal Observer Design of Networked Systems via Adaptive Critic Design. *Fu, H., +, TSMC Nov. 2021 6976-6985*
- Distributed Output-Feedback Tracking of Multiple Nonlinear Systems With Unmeasurable States. *Li, W., +, TSMC Jan. 2021 477-486*
- Distributed-Observer-Based Nash Equilibrium Seeking Algorithm for Quadratic Games With Nonlinear Dynamics. *Huang, B., +, TSMC Nov. 2021 7260-7268*
- Disturbance Observer-Based Adaptive Finite-Time Attitude Tracking Control for Rigid Spacecraft. *Zhang, J., +, TSMC Nov. 2021 6606-6613*
- Estimation for Fuzzy Semi-Markov Jump Systems With Indirectly Accessible Mode Information and Nonideal Data Transmission. *Cai, B., +, TSMC July 2021 4016-4027*
- Event-Triggered Control for Multiagent Systems With Sensor Faults and Input Saturation. *Cao, L., +, TSMC June 2021 3855-3866*
- Exponentially Stabilizing Observer-Based Feedback Control of a Sampled-Data Linear Parabolic Multiple-Input-Multiple-Output PDE. *Wang, J., TSMC Sept. 2021 5742-5751*
- Extended State Observer-Based Data-Driven Iterative Learning Control for Permanent Magnet Linear Motor With Initial Shifts and Disturbances. *Hui, Y., +, TSMC March 2021 1881-1891*
- Fault Detection for Lipschitz Nonlinear Systems With Restricted Frequency-Domain Specifications. *Li, J., +, TSMC Dec. 2021 7486-7496*
- Fault-Tolerant Control for Dynamic Positioning Vessel With Thruster Faults Based on the Neural Modified Extended State Observer. *Yu, W., +, TSMC Sept. 2021 5905-5917*
- Fixed-Time Active Disturbance Rejection Control and Its Application to Wheeled Mobile Robots. *Chang, S., +, TSMC Nov. 2021 7120-7130*
- Force Sensorless Admittance Control for Teleoperation of Uncertain Robot Manipulator Using Neural Networks. *Yang, C., +, TSMC May 2021 3282-3292*
- Global Consensus of Positive Edge System With Sector Input Nonlinearities. *Wu, H., +, TSMC July 2021 4057-4066*
- Global Event-Triggered Output Feedback Stabilization of a Class of Nonlinear Systems. *Cheng, Y., +, TSMC July 2021 4040-4047*
- Global Finite Time Active Disturbance Rejection Control for Parallel Manipulators With Unknown Bounded Uncertainties. *Nguyen, V., +, TSMC Dec. 2021 7838-7849*
- Global Output Feedback Sampled-Data Stabilization of a Class of Switched Nonlinear Systems in the p-Normal Form. *Li, S., +, TSMC Feb. 2021 1075-1084*
- High-Precision Attitude Tracking Control of Space Manipulator System Under Multiple Disturbances. *Qiao, J., +, TSMC July 2021 4274-4284*
- Hybrid Disturbance Observer-Based Anti-Disturbance Composite Control With Applications to Mars Landing Mission. *Xu, J., +, TSMC May 2021 2885-2893*
- Impedance Control for Coordinated Robots by State and Output Feedback. *Dong, Y., +, TSMC Aug. 2021 5056-5066*
- Input-to-State Stability of Nonlinear Systems Using Observer-Based Event-Triggered Impulsive Control. *Li, X., +, TSMC Nov. 2021 6892-6900*
- Integrated Synchronization and Anti-Disturbance Control Design for Fuzzy Model-Based Multiweighted Complex Network. *Kaviarasan, B., +, TSMC Oct. 2021 6330-6341*
- Leader-Follower Trajectory Control for Quadrotors via Tracking Differentiators and Disturbance Observers. *Yang, H., +, TSMC Jan. 2021 601-609*
- Model Predictive Control-Based Depth Control in Gliding Motion of a Gliding Robotic Dolphin. *Wang, J., +, TSMC Sept. 2021 5466-5477*
- Nearly Optimal Integral Sliding-Mode Consensus Control for Multiagent Systems With Disturbances. *Zhang, H., +, TSMC Aug. 2021 4741-4750*
- Neural Networks-Based Fault Tolerant Control of a Robot via Fast Terminal Sliding Mode. *Zhang, S., +, TSMC July 2021 4091-4101*
- Nonfragile Observer-Based Control for Markovian Jump Systems Subject to Asynchronous Modes. *Tao, J., +, TSMC June 2021 3533-3540*
- Novel Resilient Structure of Output Formation Tracking of Heterogeneous Systems With Unknown Leader Under Contested Environments. *Li, Q., +, TSMC Nov. 2021 6819-6829*
- Observer-Based Adaptive Event-Triggered Control for Nonstrict-Feedback Nonlinear Systems With Output Constraint and Actuator Failures. *Cao, L., +, TSMC March 2021 1380-1391*
- Observer-Based Containment Control for a Class of Nonlinear Multiagent Systems With Uncertainties. *Yang, Y., +, TSMC Jan. 2021 588-600*
- Observer-Based Finite-Time Control for Distributed Path Maneuvering of Underactuated Unmanned Surface Vehicles With Collision Avoidance and Connectivity Preservation. *Gu, N., +, TSMC Aug. 2021 5105-5115*
- Observer-Based Interval Type-2 $L_2 - L_\infty/H_\infty$ Mixed Fuzzy Control for Uncertain Nonlinear Systems Under Measurement Outliers. *Zhang, Z., +, TSMC Dec. 2021 7652-7662*
- Observer-Based PID Security Control for Discrete Time-Delay Systems Under Cyber-Attacks. *Zhao, D., +, TSMC June 2021 3926-3938*
- On the Principle and Applications of Conditional Disturbance Negation. *Pu, Z., +, TSMC Nov. 2021 6757-6767*

- Output-Based Containment Control for Uncertain Nonaffine Nonlinear Multiagent Systems. *Yang, Y., +, TSMC Oct. 2021 5992-6002*
- Output-Feedback-Based Consensus Control Without Continuous Interagent Communication. *Shih, C., +, TSMC May 2021 3240-3250*
- Predefined-Time Consensus Tracking of Second-Order Multiagent Systems. *Ni, J., +, TSMC April 2021 2550-2560*
- Reduced-Order Observer-Based Adaptive Fuzzy Tracking Control Scheme of Stochastic Switched Nonlinear Systems. *Niu, B., +, TSMC July 2021 4566-4578*
- Robust Exact Predictive Scheme for Output-Feedback Control of Input-Delay Systems With Unmatched Sinusoidal Disturbances. *Shi, S., +, TSMC Sept. 2021 5357-5366*
- Robust Fixed-Time Consensus Tracking Control of High-Order Multiple Nonholonomic Systems. *Shi, S., +, TSMC March 2021 1869-1880*
- Robust Invariant Manifold-Based Output Voltage-Tracking Controller for DC/DC Boost Power Conversion Systems. *Kim, S., +, TSMC March 2021 1582-1589*
- Robust Particle Filtering With Time-Varying Model Uncertainty and Inaccurate Noise Covariance Matrix. *Li, W., +, TSMC Nov. 2021 7099-7108*
- Robust Resilient Control Based on Multi-Approximator for the Uncertain Turbofan System With Unmeasured States and Disturbances. *Li, Y., +, TSMC Oct. 2021 6040-6049*
- Semiglobal Observer-Based Positive Scaled Edge-Consensus of Networked Discrete-Time Systems Under Actuator Saturation. *Sun, Y., +, TSMC July 2021 4543-4554*
- Sliding Mode Control of Interval Type-2 Fuzzy Systems Under Round-Robin Scheduling Protocol. *Zhang, Z., +, TSMC Dec. 2021 7602-7612*
- Sliding-Mode Observer-Based Fault Reconstruction for T-S Fuzzy Descriptor Systems. *Li, R., +, TSMC Aug. 2021 5046-5055*
- Small-Gain Technique-Based Adaptive Neural Output-Feedback Fault-Tolerant Control of Switched Nonlinear Systems With Unmodeled Dynamics. *Ma, L., +, TSMC Nov. 2021 7051-7062*
- Stability Analysis for Input Saturated Discrete-Time Switched Systems With Average Dwell-Time. *Wang, Q., +, TSMC Jan. 2021 412-419*
- Targeting Posture Control With Dynamic Obstacle Avoidance of Constrained Uncertain Wheeled Mobile Robots Including Unknown Skidding and Slipping. *Lu, Q., +, TSMC Nov. 2021 6650-6659*
- Tracking Flight Control of Quadrotor Based on Disturbance Observer. *Chen, M., +, TSMC March 2021 1414-1423*
- Variable Cut-Off Frequency Algorithm-Based Nonlinear Position Controller for Magnetic Levitation System Applications. *Kim, S., +, TSMC July 2021 4599-4605*
- Visual Trajectory Tracking of Wheeled Mobile Robots With Uncalibrated Camera Extrinsic Parameters. *Zhang, K., +, TSMC Nov. 2021 7191-7200*
- Oligopoly**
- Distributed-Observer-Based Nash Equilibrium Seeking Algorithm for Quadratic Games With Nonlinear Dynamics. *Huang, B., +, TSMC Nov. 2021 7260-7268*
- Open loop systems**
- Consensus of Multiagent Systems With Time-Varying Input Delay via Truncated Predictor Feedback. *Chu, H., +, TSMC Oct. 2021 6062-6073*
- Output-Feedback-Based Consensus Control Without Continuous Interagent Communication. *Shih, C., +, TSMC May 2021 3240-3250*
- Open systems**
- Internet of Things as System of Systems: A Review of Methodologies, Frameworks, Platforms, and Tools. *Fortino, G., +, TSMC Jan. 2021 223-236*
- Secure Conflicts Avoidance in Multidomain Environments: A Distributed Approach. *Yang, B., +, TSMC Sept. 2021 5478-5489*
- Operations research**
- Fuzzy Grey Choquet Integral for Evaluation of Multicriteria Decision Making Problems With Interactive and Qualitative Indices. *Tian, G., +, TSMC March 2021 1855-1868*
- Optimal control**
- A Control-Theoretic Study on Iterative Solution to Control Allocation for Over-Actuated Aircraft. *Cui, L., +, TSMC June 2021 3429-3439*
- ADP-Based Robust Resilient Control of Partially Unknown Nonlinear Systems via Cooperative Interaction Design. *Huang, X., +, TSMC Dec. 2021 7466-7474*
- Data-Driven Pareto-DE-Based Intelligent Optimal Operational Control for Stochastic Processes. *Yin, L., +, TSMC July 2021 4443-4452*
- Decision on Maximal Permissiveness of Linear Constraints via Structural Analysis of a Subclass of Petri Nets. *Chen, H., +, TSMC July 2021 4347-4358*
- Distributed Continuous-Time Optimization of Second-Order Multiagent Systems With Nonconvex Input Constraints. *Mo, L., +, TSMC Oct. 2021 6404-6413*
- Distributed Optimal Consensus Control for a Class of Uncertain Nonlinear Multiagent Networks With Disturbance Rejection Using Adaptive Technique. *Wang, D., +, TSMC July 2021 4389-4399*
- Distributed Optimal Control of Energy Hubs for Micro-Integrated Energy Systems. *Qu, M., +, TSMC April 2021 2145-2158*
- Distributed Optimal Observer Design of Networked Systems via Adaptive Critic Design. *Fu, H., +, TSMC Nov. 2021 6976-6985*
- Distributed Tracking for Discrete-Time Multiagent Networks via an Ultrafast Control Protocol. *Zhang, W., +, TSMC Dec. 2021 7542-7552*
- Dynamic Control of Fraud Information Spreading in Mobile Social Networks. *Lin, Y., +, TSMC June 2021 3725-3738*
- Echo State Network-Based Decentralized Control of Continuous-Time Nonlinear Large-Scale Interconnected Systems. *Zhang, H., +, TSMC Oct. 2021 6293-6303*
- Effective Quarantine and Recovery Scheme Against Advanced Persistent Threat. *Yang, L., +, TSMC Oct. 2021 5977-5991*
- Event-Triggered Distributed H_∞ Constrained Control of Physically Interconnected Large-Scale Partially Unknown Strict-Feedback Systems. *Tan, L.N., TSMC April 2021 2444-2456*
- Event-Triggered Model Predictive Control for Multiagent Systems With Communication Constraints. *Li, L., +, TSMC May 2021 3304-3316*
- Event-Triggered Optimal Control for Discrete-Time Switched Nonlinear Systems With Constrained Control Input. *Han, X., +, TSMC Dec. 2021 7850-7859*
- Fractional-Order PID Controller Synthesis for Bifurcation of Fractional-Order Small-World Networks. *Xiao, M., +, TSMC July 2021 4334-4346*
- Hamiltonian-Driven Hybrid Adaptive Dynamic Programming. *Yang, Y., +, TSMC Oct. 2021 6423-6434*
- Intelligent Optimal Control System With Flexible Objective Functions and Its Applications in Wastewater Treatment Process. *Han, H., +, TSMC June 2021 3464-3476*
- Knowledge-Data-Driven Model Predictive Control for a Class of Nonlinear Systems. *Han, H., +, TSMC July 2021 4492-4504*
- Multi-Kernel Online Reinforcement Learning for Path Tracking Control of Intelligent Vehicles. *Liu, J., +, TSMC Nov. 2021 6962-6975*
- Multiobjective Dynamic Optimization of Cooperative Difference Games in Infinite Horizon. *Peng, C., +, TSMC Nov. 2021 6669-6680*
- Nearly Optimal Integral Sliding-Mode Consensus Control for Multiagent Systems With Disturbances. *Zhang, H., +, TSMC Aug. 2021 4741-4750*
- Novel Resilient Structure of Output Formation Tracking of Heterogeneous Systems With Unknown Leader Under Contested Environments. *Li, Q., +, TSMC Nov. 2021 6819-6829*
- Optimal Control and Stabilization for Networked Systems With Input Delay and Markovian Packet Losses. *Li, H., +, TSMC July 2021 4453-4465*
- Optimal Control on Finite-Time Consensus of the Leader-Following Stochastic Multiagent System With Heuristic Method. *Xu, S., +, TSMC June 2021 3617-3628*
- Optimal Output Synchronization Control of a Class of Complex Dynamical Networks With Partially Unknown System Dynamics. *Wang, N., +, TSMC Feb. 2021 822-832*
- Output Tracking of Uncertain Nonminimum Phase Systems by Experience Replay. *Ye, L., +, TSMC May 2021 3159-3167*
- Policy-Iteration-Based Learning for Nonlinear Player Game Systems With Constrained Inputs. *Mu, C., +, TSMC Oct. 2021 6488-6502*

Optimization

- A Chaotic Ant Colony Optimized Link Prediction Algorithm. *Cao, Z., +, TSMC Sept. 2021 5274-5288*
- A Finite-Time Distributed Optimization Algorithm for Economic Dispatch in Smart Grids. *Mao, S., +, TSMC April 2021 2068-2079*
- A Heuristic Procedure for Selecting the Best Feasible Design in the Presence of Stochastic Constraints. *Choi, S.H., +, TSMC Feb. 2021 1016-1026*
- A Hybrid Sliding Mode Control Scheme of Markovian Jump Systems via Transition Rates Optimal Design. *Cao, Z., +, TSMC Dec. 2021 7752-7763*
- A Noise-Enduring and Finite-Time Zeroing Neural Network for Equality-Constrained Time-Varying Nonlinear Optimization. *Xiao, L., +, TSMC Aug. 2021 4729-4740*
- A Personalized Consensus Feedback Mechanism Based on Maximum Harmony Degree. *Cao, M., +, TSMC Oct. 2021 6134-6146*
- A Two-Phase Coordinated Planning Approach for Heterogeneous Earth-Observation Resources to Monitor Area Targets. *Deng, M., +, TSMC Oct. 2021 6388-6403*
- A Two-Stage Approach for Efficient Power Sharing Within Energy Districts. *Giordano, A., +, TSMC March 2021 1679-1689*
- AUC-Based Extreme Learning Machines for Supervised and Semi-Supervised Imbalanced Classification. *Wang, G., +, TSMC Dec. 2021 7919-7930*
- Chaotic Local Search-Based Differential Evolution Algorithms for Optimization. *Gao, S., +, TSMC June 2021 3954-3967*
- Data-Driven Pareto-DE-Based Intelligent Optimal Operational Control for Stochastic Processes. *Yin, L., +, TSMC July 2021 4443-4452*
- Decentralized Consensus Decision-Making for Cybersecurity Protection in Multimicrogrid Systems. *Hu, B., +, TSMC April 2021 2187-2198*
- Density-Enhanced Multiobjective Evolutionary Approach for Power Economic Dispatch Problems. *Ji, J., +, TSMC April 2021 2054-2067*
- Design Optimization Using Game Theory. *Smirnov, D., +, TSMC Feb. 2021 1302-1312*
- Distributed Composite Optimization Over Relay-Assisted Networks. *Shi, C., +, TSMC Oct. 2021 6587-6598*
- Distributed Continuous-Time Optimization of Second-Order Multiagent Systems With Nonconvex Input Constraints. *Mo, L., +, TSMC Oct. 2021 6404-6413*
- Distributed Optimal Consensus for Euler–Lagrange Systems Based on Event-Triggered Control. *Wang, Q., +, TSMC July 2021 4588-4598*
- Distributed Optimal Observer Design of Networked Systems via Adaptive Critic Design. *Fu, H., +, TSMC Nov. 2021 6976-6985*
- Distributed Quantized Optimization Design of Continuous-Time Multiagent Systems Over Switching Graphs. *Chen, Z., +, TSMC Nov. 2021 7152-7163*
- Distributed Robust Adaptive Optimization for Nonlinear Multiagent Systems. *Liu, Y., +, TSMC Feb. 2021 1046-1053*
- Dual Models and Return Allocations for Consensus Building Under Weighted Average Operators. *Wu, Z., +, TSMC Nov. 2021 7164-7176*
- Dynamic Control of Fraud Information Spreading in Mobile Social Networks. *Lin, Y., +, TSMC June 2021 3725-3738*
- Effects of Outliers on the Maximum Correntropy Estimation: A Robustness Analysis. *Chen, B., +, TSMC June 2021 4007-4012*
- Enhancing Learning Efficiency of Brain Storm Optimization via Orthogonal Learning Design. *Ma, L., +, TSMC Nov. 2021 6723-6742*
- Event-Triggered Model Predictive Control With a Statistical Learning. *Yoo, J., +, TSMC April 2021 2571-2581*
- Event-Triggered Optimal Control for Discrete-Time Switched Nonlinear Systems With Constrained Control Input. *Han, X., +, TSMC Dec. 2021 7850-7859*
- Formulating Ensemble Learning of SVMs Into a Single SVM Formulation by Negative Agreement Learning. *Zhou, J., +, TSMC Oct. 2021 6015-6028*
- Fuzzy Grey Choquet Integral for Evaluation of Multicriteria Decision Making Problems With Interactive and Qualitative Indices. *Tian, G., +, TSMC March 2021 1855-1868*
- Generalized Variant Support Vector Machine. *Mohammadi, M., +, TSMC May 2021 2798-2809*
- Global Optimization: A Distributed Compensation Algorithm and its Convergence Analysis. *Lin, W., +, TSMC April 2021 2355-2369*

- Graph Optimization Approach to Range-Based Localization. *Fang, X., +, TSMC Nov. 2021 6830-6841*
- Group Scheduling With Nonperiodical Maintenance and Deteriorating Effects. *Xu, H., +, TSMC May 2021 2860-2872*
- Intelligent Optimal Control System With Flexible Objective Functions and Its Applications in Wastewater Treatment Process. *Han, H., +, TSMC June 2021 3464-3476*
- Linear and Nonlinear Regression-Based Maximum Correntropy Extended Kalman Filtering. *Liu, X., +, TSMC May 2021 3093-3102*
- Managing Online Channel and Optimization in Supply Chain Systems With Different Channel Leaderships. *Xu, L., +, TSMC Nov. 2021 7177-7190*
- Multiagent System-Based Integrated Design of Security Control and Economic Dispatch for Interconnected Microgrid Systems. *Zhang, Z., +, TSMC April 2021 2101-2112*
- Multiobjective Dynamic Optimization of Cooperative Difference Games in Infinite Horizon. *Peng, C., +, TSMC Nov. 2021 6669-6680*
- Multitask TSK Fuzzy System Modeling by Jointly Reducing Rules and Consequent Parameters. *Wang, J., +, TSMC July 2021 4078-4090*
- Optimal Consensus via Distributed Protocol for Second-Order Multiagent Systems. *Sun, H., +, TSMC Oct. 2021 6218-6228*
- Optimal Control on Finite-Time Consensus of the Leader-Following Stochastic Multiagent System With Heuristic Method. *Xu, S., +, TSMC June 2021 3617-3628*
- Optimal SINR-Based DoS Attack Scheduling for Remote State Estimation via Adaptive Dynamic Programming Approach. *Liu, R., +, TSMC Dec. 2021 7622-7632*
- Optimization-Based Control for Bearing-Only Target Search With a Mobile Vehicle. *Li, Z., +, TSMC July 2021 4149-4159*
- Proximal Parameter Distribution Optimization. *Wang, X., +, TSMC June 2021 3771-3780*
- Random Sleep Scheme-Based Distributed Optimization Algorithm Over Unbalanced Time-Varying Networks. *Li, H., +, TSMC Aug. 2021 5244-5253*
- Real-Time Taxi–Passenger Matching Using a Differential Evolutionary Fuzzy Controller. *Gong, Y., +, TSMC May 2021 2712-2725*
- Resource Utilization-Aware Collaborative Optimization of IaaS Cloud Service Composition for Data-Intensive Applications. *Ma, H., +, TSMC Feb. 2021 1322-1333*
- Sequential Restorations of Complex Networks After Cascading Failures. *Huang, Y., +, TSMC Jan. 2021 400-411*
- Solving Optimization Problems Through Fully Convolutional Networks: An Application to the Traveling Salesman Problem. *Ling, Z., +, TSMC Dec. 2021 7475-7485*
- The Effective Cooperative Diffusion Strategies With Adaptation Ability by Learning Across Adaptive Network-Wide Systems. *Xiong, N., +, TSMC July 2021 4112-4126*
- Toward Optimal Risk-Averse Configuration for HESS With CGANs-Based PV Scenario Generation. *Yang, X., +, TSMC March 2021 1779-1793*
- Trajectory Planning of Free-Floating Space Manipulators With Spacecraft Attitude Stabilization and Manipulability Optimization. *Lu, X., +, TSMC Dec. 2021 7346-7362*
- Transformation-Aware Similarity Measurement for Image Retargeting Quality Assessment via Bidirectional Rewarping. *Shao, F., +, TSMC May 2021 3053-3067*
- Using Conditional Random Fields to Optimize a Self-Adaptive Bell–LaPadula Model in Control Systems. *Yang, L., +, TSMC July 2021 4505-4519*
- Wrapper Framework for Test-Cost-Sensitive Feature Selection. *Jiang, L., +, TSMC March 2021 1747-1756*

Organizational aspects

- Managing Online Channel and Optimization in Supply Chain Systems With Different Channel Leaderships. *Xu, L., +, TSMC Nov. 2021 7177-7190*

Oscillators

- Intermittent Control Strategy for Synchronization Analysis of Time-Varying Complex Dynamical Networks. *Wu, Y., +, TSMC May 2021 3251-3262*

Output feedback

A Switching Method to Event-Triggered Output Feedback Control for Unmanned Aerial Vehicles Over Cognitive Radio Networks. *Wu, Z., +, TSMC Dec. 2021 7530-7541*

Asynchronous Output Feedback Control for a Class of Conic-Type Nonlinear Hidden Markov Jump Systems Within a Finite-Time Interval. *Cheng, P., +, TSMC Dec. 2021 7644-7651*

H_∞ Control of Singular System Based on Stochastic Cyber-Attacks and Dynamic Event-Triggered Mechanism. *Zhang, Q., +, TSMC Dec. 2021 7510-7516*

Output Feedback and Stability Analysis of Positive Polynomial Fuzzy Systems. *Meng, A., +, TSMC Dec. 2021 7707-7718*

Outsourcing

Group-Oriented Task Allocation for Crowdsourcing in Social Networks. *Jiang, J., +, TSMC July 2021 4417-4432*

P**Packet loss**

Networked Dual-Mode Adaptive Horizon MPC for Constrained Nonlinear Systems. *Li, P., +, TSMC Dec. 2021 7435-7449*

Painting

Complex Workpiece Positioning System With Nonrigid Registration Method for 6-DoFs Automatic Spray Painting Robot. *Gao, H., +, TSMC Dec. 2021 7305-7313*

Palmprint recognition

A Novel Multicamera System for High-Speed Touchless Palm Recognition. *Liang, X., +, TSMC March 2021 1534-1548*

Parabolic equations

Exponentially Stabilizing Observer-Based Feedback Control of a Sampled-Data Linear Parabolic Multiple-Input–Multiple-Output PDE. *Wang, J., TSMC Sept. 2021 5742-5751*

Parallel processing

Proof of Previous Transactions (PoPT): An Efficient Approach to Consensus for JCLedger. *Xiang, F., +, TSMC April 2021 2415-2424*

Parameter estimation

Adaptive Estimation of Time-Varying Parameters With Application to Roto-Magnet Plant. *Na, J., +, TSMC Feb. 2021 731-741*

Asymptotically Efficient Recursive Identification of FIR Systems With Binary-Valued Observations. *Zhang, H., +, TSMC May 2021 2687-2700*

Characteristic Model-Based Control Approach for Complex Network Systems. *Chen, L., +, TSMC June 2021 3599-3607*

Effects of Outliers on the Maximum Correntropy Estimation: A Robustness Analysis. *Chen, B., +, TSMC June 2021 4007-4012*

Event-Triggered Adaptive Output Feedback Control of Multivariable Systems With Nonsmooth Actuator Nonlinearities. *Yang, Y., +, TSMC Sept. 2021 5557-5566*

Event-Triggered Model-Free Adaptive Control. *Lin, N., +, TSMC June 2021 3358-3369*

Robust Multimodel Identification of LPV Systems With Missing Observations Based on t-Distribution. *Liu, X., +, TSMC Aug. 2021 5254-5260*

Pareto distribution

Data-Driven Pareto-DE-Based Intelligent Optimal Operational Control for Stochastic Processes. *Yin, L., +, TSMC July 2021 4443-4452*

Pareto optimization

A Multistage Evolutionary Algorithm for Better Diversity Preservation in Multiobjective Optimization. *Tian, Y., +, TSMC Sept. 2021 5880-5894*

A New Fitness Function With Two Rankings for Evolutionary Constrained Multiobjective Optimization. *Ma, Z., +, TSMC Aug. 2021 5005-5016*

An Adaptive Resource Allocation Strategy for Objective Space Partition-Based Multiobjective Optimization. *Chen, H., +, TSMC March 2021 1507-1522*

Decomposition-Based Multiobjective Optimization for Constrained Evolutionary Optimization. *Wang, B., +, TSMC Jan. 2021 574-587*

Design Optimization Using Game Theory. *Smirnov, D., +, TSMC Feb. 2021 1302-1312*

Indicator-Based Constrained Multiobjective Evolutionary Algorithms. *Liu, Z., +, TSMC Sept. 2021 5414-5426*

MOEA/D-Based Probabilistic PBI Approach for Risk-Based Optimal Operation of Hybrid Energy System With Intermittent Power Uncertainty. *Zhang, H., +, TSMC April 2021 2080-2090*

Multiobjective Dynamic Optimization of Cooperative Difference Games in Infinite Horizon. *Peng, C., +, TSMC Nov. 2021 6669-6680*

Solving Many-Objective Optimization Problems via Multistage Evolutionary Search. *Chen, H., +, TSMC June 2021 3552-3564*

Solving Multimodal Multiobjective Problems Through Zoning Search. *Fan, Q., +, TSMC Aug. 2021 4836-4847*

Partial differential equations

Exponentially Stabilizing Observer-Based Feedback Control of a Sampled-Data Linear Parabolic Multiple-Input–Multiple-Output PDE. *Wang, J., TSMC Sept. 2021 5742-5751*

Optimal Control on Finite-Time Consensus of the Leader-Following Stochastic Multiagent System With Heuristic Method. *Xu, S., +, TSMC June 2021 3617-3628*

Output Consensus of Multiagent Systems Based on PDEs With Input Constraint: A Boundary Control Approach. *Yang, C., +, TSMC Jan. 2021 370-377*

Vibration and Position Control of Overhead Crane With Three-Dimensional Variable Length Cable Subject to Input Amplitude and Rate Constraints. *Xing, X., +, TSMC July 2021 4127-4138*

Particle filtering (numerical methods)

Fusing Skeleton Recognition With Face-TLD for Human Following of Mobile Service Robots. *Yuan, J., +, TSMC May 2021 2963-2979*

Robust Particle Filtering With Time-Varying Model Uncertainty and Inaccurate Noise Covariance Matrix. *Li, W., +, TSMC Nov. 2021 7099-7108*

Particle swarm optimization

A Binary Particle Swarm Optimizer With Priority Planning and Hierarchical Learning for Networked Epidemic Control. *Zhao, T., +, TSMC Aug. 2021 5090-5104*

A Parallel Social Spider Optimization Algorithm Based on Emotional Learning. *Lai, Z., +, TSMC Feb. 2021 797-808*

An N -State Markovian Jumping Particle Swarm Optimization Algorithm. *Rahman, I.U., +, TSMC Nov. 2021 6626-6638*

Distributed Virtual Network Embedding System With Historical Archives and Set-Based Particle Swarm Optimization. *Song, A., +, TSMC Feb. 2021 927-942*

Path planning

3-D Path Planning With Multiple Motions for a Gliding Robotic Dolphin. *Wang, J., +, TSMC May 2021 2904-2915*

A Novel Approach to Image-Sequence-Based Mobile Robot Place Recognition. *Yuan, J., +, TSMC Sept. 2021 5377-5391*

A Two-Phase Coordinated Planning Approach for Heterogeneous Earth-Observation Resources to Monitor Area Targets. *Deng, M., +, TSMC Oct. 2021 6388-6403*

Cooperative Target Tracking in Aquatic Environment Using Dual Robotic Dolphins. *Liu, J., +, TSMC Aug. 2021 4782-4792*

Curved Path Following for Unmanned Surface Vehicles With Heading Amendment. *Qu, Y., +, TSMC July 2021 4183-4192*

Drivable Path Planning Using Hybrid Search Algorithm Based on E^* and Bernstein–Bézier Motion Primitives. *Klančar, G., +, TSMC Aug. 2021 4868-4882*

Laser-Based Intersection-Aware Human Following With a Mobile Robot in Indoor Environments. *Yuan, J., +, TSMC Jan. 2021 354-369*

Optimization-Based Control for Bearing-Only Target Search With a Mobile Vehicle. *Li, Z., +, TSMC July 2021 4149-4159*

Semantic-Aware Informative Path Planning for Efficient Object Search Using Mobile Robot. *Wang, C., +, TSMC Aug. 2021 5230-5243*

Skill Learning From Human Demonstrations Using Dynamical Regressive Models for Multitask Applications. *Dutta, S., +, TSMC Jan. 2021 659-672*

Stepsize Interval Confirmation of General Four-Step DTZN Algorithm Illustrated With Future Quadratic Programming and Tracking Control of Manipulators. *Guo, J., +, TSMC March 2021 1662-1670*

Targeting Posture Control With Dynamic Obstacle Avoidance of Constrained Uncertain Wheeled Mobile Robots Including Unknown Skidding and Slipping. *Lu, Q., +, TSMC Nov. 2021 6650-6659*

Time-Efficient Indoor Navigation and Evacuation With Fastest Path Planning Based on Internet of Things Technologies. *Chen, L.*, +, *TSMC May 2021 3125-3135*

Two Hybrid Multiobjective Motion Planning Schemes Synthesized by Recurrent Neural Networks for Wheeled Mobile Robot Manipulators. *Zhang, Z.*, +, *TSMC May 2021 3270-3281*

Vision-Assisted Autonomous Lower-Limb Exoskeleton Robot. *Liu, D.*, +, *TSMC June 2021 3759-3770*

Patient care

Evidential Reasoning Rule-Based Decision Support System for Predicting ICU Admission and In-Hospital Death of Trauma. *Kong, G.*, +, *TSMC Nov. 2021 7131-7142*

Patient monitoring

Adaptive Pulsatile Plane for Robust Noncontact Heart Rate Monitoring. *Tran, Q.*, +, *TSMC Sept. 2021 5587-5599*

Patient rehabilitation

A Wearable Ultrasound System for Sensing Muscular Morphological Deformations. *Yang, X.*, +, *TSMC June 2021 3370-3379*

Vision-Assisted Autonomous Lower-Limb Exoskeleton Robot. *Liu, D.*, +, *TSMC June 2021 3759-3770*

Patient treatment

Evidential Reasoning Rule-Based Decision Support System for Predicting ICU Admission and In-Hospital Death of Trauma. *Kong, G.*, +, *TSMC Nov. 2021 7131-7142*

Pattern classification

A Distance Measure for Intuitionistic Fuzzy Sets and Its Application to Pattern Classification Problems. *Xiao, F.*, *TSMC June 2021 3980-3992*

A Doubly Sparse Multiclass Support Vector Machine With Simultaneous Feature and Sample Screening. *Pang, X.*, +, *TSMC Nov. 2021 6911-6925*

A Micro-Extended Belief Rule-Based System for Big Data Multiclass Classification Problems. *Yang, L.*, +, *TSMC Jan. 2021 420-440*

A Novel Fuzzy Logic-Based Text Classification Method for Tracking Rare Events on Twitter. *Lu, X.S.*, +, *TSMC July 2021 4324-4333*

A Transfer Classification Method for Heterogeneous Data Based on Evidence Theory. *Liu, Z.*, +, *TSMC Aug. 2021 5129-5141*

Adaptive Online Learning With Regularized Kernel for One-Class Classification. *Gautam, C.*, +, *TSMC March 2021 1917-1932*

An Instance-Frequency-Weighted Regularization Scheme for Non-Negative Latent Factor Analysis on High-Dimensional and Sparse Data. *Luo, X.*, +, *TSMC June 2021 3522-3532*

Concept-Cognitive Learning Model for Incremental Concept Learning. *Shi, Y.*, +, *TSMC Feb. 2021 809-821*

Deep Attributed Network Embedding by Preserving Structure and Attribute Information. *Hong, R.*, +, *TSMC March 2021 1434-1445*

Generalized Variant Support Vector Machine. *Mohammadi, M.*, +, *TSMC May 2021 2798-2809*

Large-Scale Twin Parametric Support Vector Machine Using Pinball Loss Function. *Sharma, S.*, +, *TSMC Feb. 2021 987-1003*

Measures of Scatter and Fisher Discriminant Analysis for Uncertain Data. *Tavakkol, B.*, +, *TSMC March 2021 1690-1703*

Modified Sparse Representation Classification Framework for Online Writer Identification. *Venugopal, V.*, +, *TSMC Jan. 2021 314-325*

Multiscale Multipath Ensemble Convolutional Neural Network. *Wang, X.*, +, *TSMC Sept. 2021 5918-5928*

On the Utility of Power Spectral Techniques With Feature Selection Techniques for Effective Mental Task Classification in Noninvasive BCI. *Gupta, A.*, +, *TSMC May 2021 3080-3092*

Parity Space Vector Machine Approach to Robust Fault Detection for Linear Discrete-Time Systems. *Zhong, M.*, +, *TSMC July 2021 4251-4261*

Stacked Broad Learning System: From Incremental Flatted Structure to Deep Model. *Liu, Z.*, +, *TSMC Jan. 2021 209-222*

The N-Tuple Subspace Classifier: Extensions and Survey. *Haralick, R.M.*, +, *TSMC Jan. 2021 22-39*

Wrapper Framework for Test-Cost-Sensitive Feature Selection. *Jiang, L.*, +, *TSMC March 2021 1747-1756*

Zero-Shot Learning Based on Multitask Extended Attribute Groups. *Wang, X.*, +, *TSMC March 2021 2003-2011*

Pattern clustering

A Fast Semi-Supervised Clustering Framework for Large-Scale Time Series Data. *He, G.*, +, *TSMC July 2021 4201-4216*

A Parallel Social Spider Optimization Algorithm Based on Emotional Learning. *Lai, Z.*, +, *TSMC Feb. 2021 797-808*

A Transfer Classification Method for Heterogeneous Data Based on Evidence Theory. *Liu, Z.*, +, *TSMC Aug. 2021 5129-5141*

A Unified Scheme for Distance Metric Learning and Clustering via Rank-Reduced Regression. *Guo, W.*, +, *TSMC Aug. 2021 5218-5229*

Clustering Through Probability Distribution Analysis Along Eigenpaths. *Yang, W.*, +, *TSMC Feb. 2021 875-884*

Data-Driven Output-Feedback LQ Secure Control for Unknown Cyber-Physical Systems Against Sparse Actuator Attacks. *Shen, X.*, +, *TSMC Sept. 2021 5708-5720*

Enhanced Ensemble Clustering via Fast Propagation of Cluster-Wise Similarities. *Huang, D.*, +, *TSMC Jan. 2021 508-520*

Enhancing Learning Efficiency of Brain Storm Optimization via Orthogonal Learning Design. *Ma, L.*, +, *TSMC Nov. 2021 6723-6742*

Integrating Structural Symmetry and Local Homoplasmy Information in Intuitionistic Fuzzy Clustering for Infrared Pedestrian Segmentation. *Jin, D.*, +, *TSMC July 2021 4365-4378*

KNN-BLOCK DBSCAN: Fast Clustering for Large-Scale Data. *Chen, Y.*, +, *TSMC June 2021 3939-3953*

Learning Graph Similarity With Large Spectral Gap. *Wu, Z.*, +, *TSMC March 2021 1590-1600*

Novel Fast Networking Approaches Mining Underlying Structures From Investment Big Data. *Yang, L.*, +, *TSMC Oct. 2021 6319-6329*

Streaming Data Analysis: Clustering or Classification?. *Bezdek, J.C.*, +, *TSMC Jan. 2021 91-102*

Zero-Shot Learning Based on Multitask Extended Attribute Groups. *Wang, X.*, +, *TSMC March 2021 2003-2011*

Pattern recognition

Distance-Preserving Vector Space Embedding for Consensus Learning. *Nienkotter, A.*, +, *TSMC Feb. 2021 1244-1257*

Payloads

Two-Echelon Routing Problem for Parcel Delivery by Cooperated Truck and Drone. *Liu, Y.*, +, *TSMC Dec. 2021 7450-7465*

PD control

Fault-Tolerant Control for Dynamic Positioning Vessel With Thruster Faults Based on the Neural Modified Extended State Observer. *Yu, W.*, +, *TSMC Sept. 2021 5905-5917*

Hybrid PD-Fuzzy and PD Controllers for Trajectory Tracking of a Quadrotor Unmanned Aerial Vehicle: Autopilot Designs and Real-Time Flight Tests. *Santoso, F.*, +, *TSMC March 2021 1817-1829*

Observer-Based PID Security Control for Discrete Time-Delay Systems Under Cyber-Attacks. *Zhao, D.*, +, *TSMC June 2021 3926-3938*

Pendulums

Distributed Control of Networked Nonlinear Systems via Interconnected Takagi-Sugeno Fuzzy Systems With Nonlinear Consequent. *Araujo, R.F.*, +, *TSMC Aug. 2021 4858-4867*

Experimental Output Regulation of Linear Motor Driven Inverted Pendulum With Friction Compensation. *Ping, Z.*, +, *TSMC June 2021 3751-3758*

Fault-Tolerant Control of Multilayer Interconnected Nonlinear Systems: An Inclusion Principle Approach. *Xu, Y.*, +, *TSMC April 2021 2403-2414*

Strict Lyapunov Functions for Homogeneous Time-Varying Systems. *Zhang, B.*, +, *TSMC March 2021 1994-2002*

Time-Optimal Point Stabilization Control for WIP Vehicles Using Quasi-Convex Optimization and B-Spline Adaptive Interpolation Techniques. *Ning, Y.*, +, *TSMC May 2021 3293-3303*

Percolation

Robustness Evaluation of Multipartite Complex Networks Based on Percolation Theory. *Cai, Q.*, +, *TSMC Oct. 2021 6244-6257*

Performance analysis

\mathcal{L}_1 Control of Positive Semi-Markov Jump Systems With State Delay. *Zong, G.*, +, *TSMC Dec. 2021 7569-7578*

Performance evaluation

Performance Evaluation of Joint Tracking and Classification. *Zhang, L.*, +, *TSMC Feb. 2021 1149-1163*

Performance index

A Dynamic Event-Triggered Approach to H_∞ Control for Discrete-Time Singularly Perturbed Systems With Time-Delays and Sensor Saturations. *Ma, L., +, TSMC Nov. 2021 6614-6625*

A Universal Framework of the Generalized Kalman–Yakovovich–Popov Lemma for Singular Fractional-Order Systems. *Li, Y., +, TSMC Aug. 2021 5209-5217*

Data-Driven Pareto-DE-Based Intelligent Optimal Operational Control for Stochastic Processes. *Yin, L., +, TSMC July 2021 4443-4452*

Optimal Output Synchronization Control of a Class of Complex Dynamical Networks With Partially Unknown System Dynamics. *Wang, N., +, TSMC Feb. 2021 822-832*

Partial-Nodes-Based Scalable H_∞ -Consensus Filtering With Censored Measurements Over Sensor Networks. *Han, F., +, TSMC March 2021 1892-1903*

Robust Fixed-Time Consensus Tracking Control of High-Order Multiple Nonholonomic Systems. *Shi, S., +, TSMC March 2021 1869-1880*

Permanent magnet generators

Design of Observer-Based Event-Triggered Fuzzy ISMC for T–S Fuzzy Model and its Application to PMSG. *Mani, P., +, TSMC April 2021 2221-2231*

Passivity-Based Fuzzy ISMC for Wind Energy Conversion Systems With PMSG. *Subramaniam, R., +, TSMC April 2021 2212-2220*

Permanent magnet motors

Design of Interval Type-2 Fuzzy-Based Sampled-Data Controller for Nonlinear Systems Using Novel Fuzzy Lyapunov Functional and its Application to PMSM. *Shanmugam, L., +, TSMC Jan. 2021 542-551*

Extended State Observer-Based Data-Driven Iterative Learning Control for Permanent Magnet Linear Motor With Initial Shifts and Disturbances. *Hui, Y., +, TSMC March 2021 1881-1891*

Reliable Fuzzy H_∞ Control for Permanent Magnet Synchronous Motor Against Stochastic Actuator Faults. *Vadivel, R., +, TSMC April 2021 2232-2245*

Permanent magnets

Independent Electromagnetic Field Control for Practical Approach to Actively Locomotive Wireless Capsule Endoscope. *Hoang, M.C., +, TSMC May 2021 3040-3052*

Personnel

c

Perturbation methods

H_∞ Output Anti-Disturbance Control of Stochastic Markov Jump Systems With Multiple Disturbances. *Shen, M., +, TSMC Dec. 2021 7633-7643*

Perturbation techniques

New Joint-Drift-Free Scheme Aided with Projected ZNN for Motion Generation of Redundant Robot Manipulators Perturbed by Disturbances. *Lu, H., +, TSMC Sept. 2021 5639-5651*

Nonfragile Observer-Based Control for Markovian Jump Systems Subject to Asynchronous Modes. *Tao, J., +, TSMC June 2021 3533-3540*

Petri nets

Deadlock Prevention Controller for Automated Manufacturing Systems Modeled by S^4PR . *Feng, Y., +, TSMC Dec. 2021 7403-7412*

Decision on Maximal Permissiveness of Linear Constraints via Structural Analysis of a Subclass of Petri Nets. *Chen, H., +, TSMC July 2021 4347-4358*

Distributed Diagnostic Problem Solving With Colored Behavioral Petri Nets. *Mancer, S., +, TSMC June 2021 3380-3391*

Efficient Approach to Failure Response of Process Module in Dual-Arm Cluster Tools With Wafer Residency Time Constraints. *Qiao, Y., +, TSMC March 2021 1612-1629*

Implementation of Generalized Mutual Exclusion Constraints Using Critical Places and Marking Estimation. *Yang, B., +, TSMC Aug. 2021 5067-5079*

Integrated Scheduling of a Dual-Armed Cluster Tool for Maximizing Steady Schedule Patterns. *Kim, W., +, TSMC Dec. 2021 7282-7294*

Pythagorean Fuzzy Petri Nets for Knowledge Representation and Reasoning in Large Group Context. *Liu, H., +, TSMC Aug. 2021 5261-5271*

Scheduling of Flexible Manufacturing Systems Subject to No-Wait Constraints via Petri Nets and Heuristic Search. *Wang, X., +, TSMC Oct. 2021 6122-6133*

Photoplethysmography

Adaptive Pulsatile Plane for Robust Noncontact Heart Rate Monitoring. *Tran, Q., +, TSMC Sept. 2021 5587-5599*

Photovoltaic power systems

Toward Optimal Risk-Averse Configuration for HESS With CGANs-Based PV Scenario Generation. *Yang, X., +, TSMC March 2021 1779-1793*

PI control

Observer-Based PID Security Control for Discrete Time-Delay Systems Under Cyber-Attacks. *Zhao, D., +, TSMC June 2021 3926-3938*

Quantized Decentralized Adaptive Neural Network PI Tracking Control for Uncertain Interconnected Nonlinear Systems With Dynamic Uncertainties. *Sun, H., +, TSMC May 2021 3111-3124*

Piecewise constant techniques

Optimal Control on Finite-Time Consensus of the Leader-Following Stochastic Multiagent System With Heuristic Method. *Xu, S., +, TSMC June 2021 3617-3628*

Piecewise linear techniques

Optimal Control on Finite-Time Consensus of the Leader-Following Stochastic Multiagent System With Heuristic Method. *Xu, S., +, TSMC June 2021 3617-3628*

Planning

A Binary Particle Swarm Optimizer With Priority Planning and Hierarchical Learning for Networked Epidemic Control. *Zhao, T., +, TSMC Aug. 2021 5090-5104*

Point cloud compression

Complex Workpiece Positioning System With Nonrigid Registration Method for 6-DoFs Automatic Spray Painting Robot. *Gao, H., +, TSMC Dec. 2021 7305-7313*

Pollution measurement

Nonlinear Stochastic Estimators on the Special Euclidean Group SE(3) Using Uncertain IMU and Vision Measurements. *Hashim, H.A., +, TSMC Dec. 2021 7587-7600*

Polynomial approximation

Adaptive Estimation of Time-Varying Parameters With Application to Roto-Magnet Plant. *Na, J., +, TSMC Feb. 2021 731-741*

Polynomials

Receding Horizon Synchronization of Delayed Neural Networks Using a Novel Inequality on Quadratic Polynomial Functions. *Lu, C., +, TSMC Oct. 2021 6085-6095*

Pose estimation

An Efficient Method to Recover Relative Pose for Vehicle-Mounted Cameras Under Planar Motion. *Zhang, X., +, TSMC Feb. 2021 1138-1148*

Nonlinear Pose Filters on the Special Euclidean Group SE(3) With Guaranteed Transient and Steady-State Performance. *Hashim, H.A., +, TSMC May 2021 2949-2962*

Nonlinear Stochastic Estimators on the Special Euclidean Group SE(3) Using Uncertain IMU and Vision Measurements. *Hashim, H.A., +, TSMC Dec. 2021 7587-7600*

Position control

A Finite-Time Control for a Pneumatic Cylinder Servo System Based on a Super-Twisting Extended State Observer. *Zhao, L., +, TSMC Feb. 2021 1164-1173*

A Novel Robust Control Method for Motion Control of Uncertain Single-Link Flexible-Joint Manipulator. *Yan, Z., +, TSMC March 2021 1671-1678*

Adaptive Nonlinear Hierarchical Control for a Rotorcraft Transporting a Cable-Suspended Payload. *Liang, X., +, TSMC July 2021 4171-4182*

Adaptive Path Following Control of Unmanned Surface Vehicles Considering Environmental Disturbances and System Constraints. *Liu, Z., +, TSMC Jan. 2021 339-353*

Adaptive Sliding Mode Fault-Tolerant Fuzzy Tracking Control With Application to Unmanned Marine Vehicles. *Wang, Y., +, TSMC Nov. 2021 6691-6700*

Boundary Disturbance Observer-Based Control of a Vibrating Single-Link Flexible Manipulator. *Zhao, Z., +, TSMC April 2021 2382-2390*

Cluster Event-Triggered Tracking Cooperative and Formation Control for Multivehicle Systems: An Extended Magnification Region Condition. *Wang, B., TSMC May 2021 3229-3239*

Cooperative Moving-Target Enclosing Control for Multiple Nonholonomic Vehicles Using Feedback Linearization Approach. Peng, X., +, *TSMC Aug. 2021* 4929-4935

Event-Based Formation Coordinated Control for Multiple Spacecraft Under Communication Constraints. Hu, Q., +, *TSMC May 2021* 3168-3179

Event-Triggered H_∞ Depth Control of Remotely Operated Underwater Vehicles. Batmani, Y., +, *TSMC Feb. 2021* 1224-1232

Fault-Tolerant Control for Dynamic Positioning Vessel With Thruster Faults Based on the Neural Modified Extended State Observer. Yu, W., +, *TSMC Sept. 2021* 5905-5917

Fixed-Time Cooperative Relay Tracking in Multiagent Surveillance Networks. Du, S., +, *TSMC Jan. 2021* 487-496

Further Results on Fixed-Time Stabilization and Tracking Control of a Marine Surface Ship Subjected to Output Constraints. Zhang, Z., +, *TSMC Sept. 2021* 5300-5310

Gradient Descent Algorithm-Based Adaptive NN Control Design for an Induction Motor. Yang, X., +, *TSMC Feb. 2021* 1027-1034

Hybrid PD-Fuzzy and PD Controllers for Trajectory Tracking of a Quadrotor Unmanned Aerial Vehicle: Autopilot Designs and Real-Time Flight Tests. Santos, F., +, *TSMC March 2021* 1817-1829

Impedance Control for Coordinated Robots by State and Output Feedback. Dong, Y., +, *TSMC Aug. 2021* 5056-5066

Intelligent Leader-Following Consensus Formation Control Using Recurrent Neural Networks for Small-Size Unmanned Helicopters. Kuo, C., +, *TSMC Feb. 2021* 1288-1301

Leader-Follower Trajectory Control for Quadrotors via Tracking Differentiators and Disturbance Observers. Yang, H., +, *TSMC Jan. 2021* 601-609

New Joint-Drift-Free Scheme Aided with Projected ZNN for Motion Generation of Redundant Robot Manipulators Perturbed by Disturbances. Lu, H., +, *TSMC Sept. 2021* 5639-5651

Nonlinear Control of Quadrotor for Fault Tolerance: A Total Failure of One Actuator. Wu, Y., +, *TSMC May 2021* 2810-2820

Observer-Based Finite-Time Control for Distributed Path Maneuvering of Underactuated Unmanned Surface Vehicles With Collision Avoidance and Connectivity Preservation. Gu, N., +, *TSMC Aug. 2021* 5105-5115

Optimization-Based Control for Bearing-Only Target Search With a Mobile Vehicle. Li, Z., +, *TSMC July 2021* 4149-4159

Position-Tracking Controller for Two-Wheeled Balancing Robot Applications Using Invariant Dynamic Surface. Kim, S., +, *TSMC Feb. 2021* 705-711

RISE-Based Integrated Motion Control of Autonomous Ground Vehicles With Asymptotic Prescribed Performance. Hu, C., +, *TSMC Sept. 2021* 5336-5348

Robust Distributed Formation Controller Design for a Group of Unmanned Underwater Vehicles. Liu, H., +, *TSMC Feb. 2021* 1215-1223

Skill Learning From Human Demonstrations Using Dynamical Regressive Models for Multitask Applications. Dutta, S., +, *TSMC Jan. 2021* 659-672

Targeting Posture Control With Dynamic Obstacle Avoidance of Constrained Uncertain Wheeled Mobile Robots Including Unknown Skidding and Slipping. Lu, Q., +, *TSMC Nov. 2021* 6650-6659

Underwater Target Tracking Control of an Untethered Robotic Fish With a Camera Stabilizer. Yu, J., +, *TSMC Oct. 2021* 6523-6534

Variable Cut-Off Frequency Algorithm-Based Nonlinear Position Controller for Magnetic Levitation System Applications. Kim, S., +, *TSMC July 2021* 4599-4605

Vibration and Position Control of Overhead Crane With Three-Dimensional Variable Length Cable Subject to Input Amplitude and Rate Constraints. Xing, X., +, *TSMC July 2021* 4127-4138

Visual Servoing of a Flexible Aerial Refueling Boom With an Eye-in-Hand Camera. Cui, L., +, *TSMC Oct. 2021* 6282-6292

Position measurement

Cooperative Moving-Target Enclosing Control for Multiple Nonholonomic Vehicles Using Feedback Linearization Approach. Peng, X., +, *TSMC Aug. 2021* 4929-4935

Power capacitors

Adaptive Type-2 FNN-Based Dynamic Sliding Mode Control of DC-DC Boost Converters. Wang, J., +, *TSMC April 2021* 2246-2257

Power converters

Adaptive Control for Three-Phase Power Converters With Disturbance Rejection Performance. Yin, Y., +, *TSMC Feb. 2021* 674-685

Power electronics

Stability-Oriented Droop Coefficients Region Identification for Inverters Within Weak Grid: An Impedance-Based Approach. Wang, R., +, *TSMC April 2021* 2258-2268

Power engineering computing

Decentralized Consensus Decision-Making for Cybersecurity Protection in Multimicrogrid Systems. Hu, B., +, *TSMC April 2021* 2187-2198

Distributed Algorithm Design for Resource Allocation Problems of Second-Order Multiagent Systems Over Weight-Balanced Digraphs. Deng, Z., *TSMC June 2021* 3512-3521

Optimal Switching Attacks and Countermeasures in Cyber-Physical Systems. Wu, G., +, *TSMC Aug. 2021* 4825-4835

Power generation

Special Issue on Recent Advances for Intelligence in Power and Energy Systems. Kumar, R., +, *TSMC April 2021* 2036-2040

Power generation control

Fuzzy Sampled-Data Control for DFIG-Based Wind Turbine With Stochastic Actuator Failures. Sharmila, V., +, *TSMC April 2021* 2199-2211

Optimal Load Frequency Control for Networked Power Systems Based on Distributed Economic MPC. Jia, Y., +, *TSMC April 2021* 2123-2133

Stability-Oriented Droop Coefficients Region Identification for Inverters Within Weak Grid: An Impedance-Based Approach. Wang, R., +, *TSMC April 2021* 2258-2268

Power generation dispatch

A Finite-Time Distributed Optimization Algorithm for Economic Dispatch in Smart Grids. Mao, S., +, *TSMC April 2021* 2068-2079

Density-Enhanced Multiobjective Evolutionary Approach for Power Economic Dispatch Problems. Ji, J., +, *TSMC April 2021* 2054-2067

Distributed Algorithm Design for Resource Allocation Problems of Second-Order Multiagent Systems Over Weight-Balanced Digraphs. Deng, Z., *TSMC June 2021* 3512-3521

Power generation economics

A Finite-Time Distributed Optimization Algorithm for Economic Dispatch in Smart Grids. Mao, S., +, *TSMC April 2021* 2068-2079

Density-Enhanced Multiobjective Evolutionary Approach for Power Economic Dispatch Problems. Ji, J., +, *TSMC April 2021* 2054-2067

Distributed Algorithm Design for Resource Allocation Problems of Second-Order Multiagent Systems Over Weight-Balanced Digraphs. Deng, Z., *TSMC June 2021* 3512-3521

Power generation protection

Decentralized Consensus Decision-Making for Cybersecurity Protection in Multimicrogrid Systems. Hu, B., +, *TSMC April 2021* 2187-2198

Power generation reliability

Toward Optimal Risk-Averse Configuration for HESS With CGANs-Based PV Scenario Generation. Yang, X., +, *TSMC March 2021* 1779-1793

Power grids

Adaptive Control for Three-Phase Power Converters With Disturbance Rejection Performance. Yin, Y., +, *TSMC Feb. 2021* 674-685

Intelligent Controller for Energy Storage System in Grid-Connected Microgrid. Teo, T.T., +, *TSMC Jan. 2021* 650-658

Resilience Indices for Power/Cyberphysical Systems. Talukder, S., +, *TSMC April 2021* 2159-2172

Stability-Oriented Droop Coefficients Region Identification for Inverters Within Weak Grid: An Impedance-Based Approach. Wang, R., +, *TSMC April 2021* 2258-2268

Synchronization of Resilient Complex Networks Under Attacks. Wang, P., +, *TSMC Feb. 2021* 1116-1127

Power inductors

Adaptive Type-2 FNN-Based Dynamic Sliding Mode Control of DC-DC Boost Converters. Wang, J., +, *TSMC April 2021* 2246-2257

Power markets

A Two-Stage Approach for Efficient Power Sharing Within Energy Districts. Giordano, A., +, *TSMC March 2021* 1679-1689

Intelligent Controller for Energy Storage System in Grid-Connected Microgrid. Teo, T.T., +, *TSMC Jan. 2021* 650-658

Power system control

- Adaptive Control for Three-Phase Power Converters With Disturbance Rejection Performance. *Yin, Y., +, TSMC Feb. 2021 674-685*
- Distributed Optimal Control of Energy Hubs for Micro-Integrated Energy Systems. *Qu, M., +, TSMC April 2021 2145-2158*
- Resilience Indices for Power/Cyberphysical Systems. *Talukder, S., +, TSMC April 2021 2159-2172*
- Resilient Load Frequency Control of Cyber-Physical Power Systems Under QoS-Dependent Event-Triggered Communication. *Sun, H., +, TSMC April 2021 2113-2122*
- Stability and Stabilization for T-S Fuzzy Large-Scale Interconnected Power System With Wind Farm via Sampled-Data Control. *Shanmugam, L., +, TSMC April 2021 2134-2144*
- Stability-Oriented Droop Coefficients Region Identification for Inverters Within Weak Grid: An Impedance-Based Approach. *Wang, R., +, TSMC April 2021 2258-2268*

Power system economics

- An Accelerated Distributed Gradient-Based Algorithm for Constrained Optimization With Application to Economic Dispatch in a Large-Scale Power System. *Guo, F., +, TSMC April 2021 2041-2053*
- Optimal Load Frequency Control for Networked Power Systems Based on Distributed Economic MPC. *Jia, Y., +, TSMC April 2021 2123-2133*

Power system faults

- Resilience Indices for Power/Cyberphysical Systems. *Talukder, S., +, TSMC April 2021 2159-2172*
- Sequential Restorations of Complex Networks After Cascading Failures. *Huang, Y., +, TSMC Jan. 2021 400-411*
- Synchronization of Resilient Complex Networks Under Attacks. *Wang, P., +, TSMC Feb. 2021 1116-1127*

Power system interconnection

- Optimal Load Frequency Control for Networked Power Systems Based on Distributed Economic MPC. *Jia, Y., +, TSMC April 2021 2123-2133*
- Resilient Load Frequency Control of Cyber-Physical Power Systems Under QoS-Dependent Event-Triggered Communication. *Sun, H., +, TSMC April 2021 2113-2122*
- Stability and Stabilization for T-S Fuzzy Large-Scale Interconnected Power System With Wind Farm via Sampled-Data Control. *Shanmugam, L., +, TSMC April 2021 2134-2144*

Power system measurement

- A Hierarchical Event Detection Method Based on Spectral Theory of Multi-dimensional Matrix for Power System. *Ma, D., +, TSMC April 2021 2173-2186*

Power system reliability

- A Hierarchical Event Detection Method Based on Spectral Theory of Multi-dimensional Matrix for Power System. *Ma, D., +, TSMC April 2021 2173-2186*

Power system restoration

- Sequential Restorations of Complex Networks After Cascading Failures. *Huang, Y., +, TSMC Jan. 2021 400-411*

Power system security

- Decentralized Consensus Decision-Making for Cybersecurity Protection in Multimicrogrid Systems. *Hu, B., +, TSMC April 2021 2187-2198*
- Optimal Switching Attacks and Countermeasures in Cyber-Physical Systems. *Wu, G., +, TSMC Aug. 2021 4825-4835*
- Resilience Indices for Power/Cyberphysical Systems. *Talukder, S., +, TSMC April 2021 2159-2172*
- Stabilization of Networked Control Systems With Hybrid-Driven Mechanism and Probabilistic Cyber Attacks. *Liu, J., +, TSMC Feb. 2021 943-953*

Power system stability

- Stability-Oriented Droop Coefficients Region Identification for Inverters Within Weak Grid: An Impedance-Based Approach. *Wang, R., +, TSMC April 2021 2258-2268*

Power system transient stability

- Resilience Indices for Power/Cyberphysical Systems. *Talukder, S., +, TSMC April 2021 2159-2172*

Power transformer insulation

- Uncertainty-Aware Fusion of Probabilistic Classifiers for Improved Transformer Diagnostics. *Aizpurua, J.I., +, TSMC Jan. 2021 621-633*

Power transmission lines

- Special Issue on Recent Advances for Intelligence in Power and Energy Systems. *Kumar, R., +, TSMC April 2021 2036-2040*

Predator prey systems

- Output Feedback and Stability Analysis of Positive Polynomial Fuzzy Systems. *Meng, A., +, TSMC Dec. 2021 7707-7718*

Prediction algorithms

- Distributed Tracking for Discrete-Time Multiagent Networks via an Ultra-fast Control Protocol. *Zhang, W., +, TSMC Dec. 2021 7542-7552*

Predictive control

- A Linear Time-Varying Model Predictive Control-Based Motion Cueing Algorithm for Hexapod Simulation-Based Motion Platform. *Qazani, M.R.C., +, TSMC Oct. 2021 6096-6110*
- Auxiliary Predictive Compensation-Based ILC for Variable Pass Lengths. *Lin, N., +, TSMC July 2021 4048-4056*
- Connecting Model-Based and Model-Free Control With Emotion Modulation in Learning Systems. *Huang, X., +, TSMC Aug. 2021 4624-4638*
- Distributed Lyapunov-Based Model Predictive Formation Tracking Control for Autonomous Underwater Vehicles Subject to Disturbances. *Wei, H., +, TSMC Aug. 2021 5198-5208*
- Event-Triggered Model Predictive Control for Multiagent Systems With Communication Constraints. *Li, L., +, TSMC May 2021 3304-3316*
- Event-Triggered Model Predictive Control With a Statistical Learning. *Yoo, J., +, TSMC April 2021 2571-2581*
- Iterative Learning Control for Multiphase Batch Processes With Asynchronous Switching. *Wang, L., +, TSMC April 2021 2536-2549*
- Knowledge-Data-Driven Model Predictive Control for a Class of Nonlinear Systems. *Han, H., +, TSMC July 2021 4492-4504*
- Model Predictive Control-Based Depth Control in Gliding Motion of a Gliding Robotic Dolphin. *Wang, J., +, TSMC Sept. 2021 5466-5477*
- Networked Dual-Mode Adaptive Horizon MPC for Constrained Nonlinear Systems. *Li, P., +, TSMC Dec. 2021 7435-7449*
- Optimal Load Frequency Control for Networked Power Systems Based on Distributed Economic MPC. *Jia, Y., +, TSMC April 2021 2123-2133*
- Prediction-Based Seabed Terrain Following Control for an Underwater Vehicle-Manipulator System. *Cai, M., +, TSMC Aug. 2021 4751-4760*
- Predictive Cloud Control for Networked Multiagent Systems With Quantized Signals Under DoS Attacks. *Yang, H., +, TSMC Feb. 2021 1345-1353*
- Receding Horizon Synchronization of Delayed Neural Networks Using a Novel Inequality on Quadratic Polynomial Functions. *Lu, C., +, TSMC Oct. 2021 6085-6095*
- Reduced-Order Estimator-Based Efficient Fault-Tolerant Tracking Control Optimization for Constrained LPV Systems. *Han, K., +, TSMC Sept. 2021 5855-5866*
- Robust Exact Predictive Scheme for Output-Feedback Control of Input-Delay Systems With Unmatched Sinusoidal Disturbances. *Shi, S., +, TSMC Sept. 2021 5357-5366*
- Robust Model Predictive Iterative Learning Control for Iteration-Varying-Reference Batch Processes. *Liu, X., +, TSMC July 2021 4238-4250*
- Targeting Posture Control With Dynamic Obstacle Avoidance of Constrained Uncertain Wheeled Mobile Robots Including Unknown Skidding and Slipping. *Lu, Q., +, TSMC Nov. 2021 6650-6659*
- Two-Dimensional Iterative Learning Model Predictive Control for Batch Processes: A New State Space Model Compensation Approach. *Zhang, R., +, TSMC Feb. 2021 833-841*

Pricing

- An Effective Data-Driven Cloud Resource Procurement Scheme With Personalized Reserve Prices. *Wu, X., +, TSMC Aug. 2021 4693-4705*
- Intelligent Controller for Energy Storage System in Grid-Connected Microgrid. *Teo, T.T., +, TSMC Jan. 2021 650-658*
- Managing Online Channel and Optimization in Supply Chain Systems With Different Channel Leaderships. *Xu, L., +, TSMC Nov. 2021 7177-7190*
- Mobile-App-Online-Website Dual Channel Strategies: Privacy Concerns, E-Payment Convenience, Channel Relationship, and Coordination. *Choi, T., TSMC Nov. 2021 7008-7016*

Principal component analysis

- Adaptive Pulsatile Plane for Robust Noncontact Heart Rate Monitoring. *Tran, Q., +, TSMC Sept. 2021 5587-5599*

Dissimilarity Analysis-Based Multimode Modeling for Complex Distributed Parameter Systems. *Wang, Z., +, TSMC May 2021 2789-2797*

Equipment Health Assessment Based on Improved Incremental Support Vector Data Description. *Zhang, L., +, TSMC May 2021 3205-3216*

Fusing Skeleton Recognition With Face-TLD for Human Following of Mobile Service Robots. *Yuan, J., +, TSMC May 2021 2963-2979*

Weight-Adapted Convolution Neural Network for Facial Expression Recognition in Human–Robot Interaction. *Wu, M., +, TSMC March 2021 1473-1484*

Probability

H_∞ Filtering for Nonhomogeneous Markovian Jump Repeated Scalar Nonlinear Systems With Multiplicative Noises and Partially Mode-Dependent Characterization. *Hua, M., +, TSMC May 2021 3180-3192*

A Chaotic Ant Colony Optimized Link Prediction Algorithm. *Cao, Z., +, TSMC Sept. 2021 5274-5288*

A New Approach to Characterize Successive Packet Losses in Stochastic Networked Systems. *Hu, Z., +, TSMC Jan. 2021 552-560*

A New Switched System Approach to Leader–Follower Consensus of Heterogeneous Linear Multiagent Systems With DoS Attack. *Zhang, D., +, TSMC Feb. 2021 1258-1266*

A Prediction-Based Approach to Distributed Filtering With Missing Measurements and Communication Delays Through Sensor Networks. *Hu, J., +, TSMC Nov. 2021 7063-7074*

Adaptive Neural Tracking Control Scheme of Switched Stochastic Nonlinear Pure-Feedback Nonlower Triangular Systems. *Niu, B., +, TSMC Feb. 2021 975-986*

Adaptive Transition Probability Matrix-Based Parallel IMM Algorithm. *Xie, G., +, TSMC May 2021 2980-2989*

Clustering Through Probability Distribution Analysis Along Eigenpaths. *Yang, W., +, TSMC Feb. 2021 875-884*

Command Filter-Based Adaptive Prescribed Performance Tracking Control for Stochastic Uncertain Nonlinear Systems. *Sun, W., +, TSMC Oct. 2021 6555-6563*

Cyber-Physical Attacks Against State Estimators Based on a Finite Frequency Approach. *Wu, Y., +, TSMC Feb. 2021 864-874*

Dissipativity-Based Asynchronous Control for 2-D Markov Jump Systems in Continuous-Time Domain. *Shen, Y., +, TSMC Sept. 2021 5349-5356*

Economic Design of a Linear Consecutively Connected System Considering Cost and Signal Loss. *Gao, K., +, TSMC Aug. 2021 5116-5128*

Estimation for Fuzzy Semi-Markov Jump Systems With Indirectly Accessible Mode Information and Nonideal Data Transmission. *Cai, B., +, TSMC July 2021 4016-4027*

Event-Triggered Consensus of General Linear Multiagent Systems With Data Sampling and Random Packet Losses. *Wang, F., +, TSMC Feb. 2021 1313-1321*

Evidential Reasoning Rule-Based Decision Support System for Predicting ICU Admission and In-Hospital Death of Trauma. *Kong, G., +, TSMC Nov. 2021 7131-7142*

Extended Dissipativity-Based Control for Hidden Markov Jump Singularly Perturbed Systems Subject to General Probabilities. *Li, F., +, TSMC Sept. 2021 5752-5761*

Fuzzy Adaptive Tracking Control for State Constraint Switched Stochastic Nonlinear Systems With Unstable Inverse Dynamics. *Wu, W., +, TSMC Sept. 2021 5522-5534*

Fuzzy Encoded Markov Chains: Overview, Observer Theory, and Applications. *Li, N., +, TSMC Jan. 2021 116-130*

Game Theoretic Suppression of Forged Messages in Online Social Networks. *Wang, X., +, TSMC March 2021 1601-1611*

Infection-Probability-Dependent Interlayer Interaction Propagation Processes in Multiplex Networks. *Liu, J., +, TSMC Feb. 2021 1085-1096*

Integrating Structural Symmetry and Local Homoplasmy Information in Intuitionistic Fuzzy Clustering for Infrared Pedestrian Segmentation. *Jin, D., +, TSMC July 2021 4365-4378*

Logarithmic Hyperbolic Cosine Adaptive Filter and Its Performance Analysis. *Wang, S., +, TSMC April 2021 2512-2524*

Measures of Scatter and Fisher Discriminant Analysis for Uncertain Data. *Tavakkol, B., +, TSMC March 2021 1690-1703*

MOEA/D-Based Probabilistic PBI Approach for Risk-Based Optimal Operation of Hybrid Energy System With Intermittent Power Uncertainty. *Zhang, H., +, TSMC April 2021 2080-2090*

Neural Modeling With Guaranteed Input–Output Probability Distributions. *Yu, W., +, TSMC Nov. 2021 6660-6668*

On the Identifiability of the Influence Model for Stochastic Spatiotemporal Spread Processes. *He, C., +, TSMC June 2021 3876-3888*

Parity Space Vector Machine Approach to Robust Fault Detection for Linear Discrete-Time Systems. *Zhong, M., +, TSMC July 2021 4251-4261*

Performance Evaluation of Joint Tracking and Classification. *Zhang, L., +, TSMC Feb. 2021 1149-1163*

Quantized Control of Networked Control Systems Under Stochastic Clock Offsets. *Sun, H., +, TSMC May 2021 3004-3013*

Resilience Indices for Power/Cyberphysical Systems. *Talukder, S., +, TSMC April 2021 2159-2172*

Semantic-Aware Informative Path Planning for Efficient Object Search Using Mobile Robot. *Wang, C., +, TSMC Aug. 2021 5230-5243*

Soft-Bound Interval Control System and Its Robust Fault-Tolerant Controller Design. *Zhou, J., +, TSMC Jan. 2021 378-390*

Spatial Context Energy Curve-Based Multilevel 3-D Otsu Algorithm for Image Segmentation. *Bhandari, A.K., +, TSMC May 2021 2760-2773*

The Effective Cooperative Diffusion Strategies With Adaptation Ability by Learning Across Adaptive Network-Wide Systems. *Xiong, N., +, TSMC July 2021 4112-4126*

Uncertainty-Aware Fusion of Probabilistic Classifiers for Improved Transformer Diagnostics. *Aizpurua, J.I., +, TSMC Jan. 2021 621-633*

Process control

Data-Driven Pareto-DE-Based Intelligent Optimal Operational Control for Stochastic Processes. *Yin, L., +, TSMC July 2021 4443-4452*

Intelligent Optimal Control System With Flexible Objective Functions and Its Applications in Wastewater Treatment Process. *Han, H., +, TSMC June 2021 3464-3476*

Iterative Learning Control for Multiphase Batch Processes With Asynchronous Switching. *Wang, L., +, TSMC April 2021 2536-2549*

Robust Model Predictive Iterative Learning Control for Iteration-Varying-Reference Batch Processes. *Liu, X., +, TSMC July 2021 4238-4250*

Procurement

An Effective Data-Driven Cloud Resource Procurement Scheme With Personalized Reserve Prices. *Wu, X., +, TSMC Aug. 2021 4693-4705*

Production engineering computing

A Heterogeneous Data Analytics Framework for RFID-Enabled Factories. *Zhong, R.Y., +, TSMC Sept. 2021 5567-5576*

Blockchain-Secured Smart Manufacturing in Industry 4.0: A Survey. *Leng, J., +, TSMC Jan. 2021 237-252*

Quality Inspection Based on Quadrangular Object Detection for Deep Aperture Component. *Zhang, J., +, TSMC Oct. 2021 5938-5948*

Survey of Human–Robot Collaboration in Industrial Settings: Awareness, Intelligence, and Compliance. *Kumar, S., +, TSMC Jan. 2021 280-297*

Two-Dimensional Iterative Learning Model Predictive Control for Batch Processes: A New State Space Model Compensation Approach. *Zhang, R., +, TSMC Feb. 2021 833-841*

Production facilities

Closing-Down Optimization for Single-Arm Cluster Tools Subject to Wafer Residency Time Constraints. *Qiao, Y., +, TSMC Nov. 2021 6792-6807*

Profitability

Mobile-App-Online-Website Dual Channel Strategies: Privacy Concerns, E-Payment Convenience, Channel Relationship, and Coordination. *Choi, T., TSMC Nov. 2021 7008-7016*

Programming

Estimating Minimal Domains of Attraction for Uncertain Nonlinear Systems. *Wang, S., +, TSMC Dec. 2021 7776-7787*

Prosthetics

A Wearable Ultrasound System for Sensing Muscular Morphological Deformations. *Yang, X., +, TSMC June 2021 3370-3379*

Model-Based Adaptive Control of Transfemoral Prostheses: Theory, Simulation, and Experiments. *Azimi, V., +, TSMC Feb. 2021 1174-1191*

Protocols

- A Novel Synchronization Protocol for Nonlinear Stochastic Dynamical Networked Systems. *Gu, H., +, TSMC May 2021 2676-2686*
- Consensus of High-Order Discrete-Time Multiagent Systems With Switching Topology. *Zhang, Y., +, TSMC Feb. 2021 721-730*
- Distributed Consensus Control of Linear Multiagent Systems With Adaptive Nonlinear Couplings. *Wei, B., +, TSMC Feb. 2021 1365-1370*
- Distributed Consensus Tracking of Networked Agent Systems Under Denial-of-Service Attacks. *Wan, Y., +, TSMC Oct. 2021 6183-6196*
- Full Information Estimation for Time-Varying Systems Subject to Round-Robin Scheduling: A Recursive Filter Approach. *Zou, L., +, TSMC March 2021 1904-1916*
- LPV Scheme for Robust Adaptive Output Feedback Consensus of Lipschitz Multiagents Using Lipschitz Nonlinear Protocol. *Rehman, A.U., +, TSMC Nov. 2021 7040-7050*
- Quasi-Synchronization in Heterogeneous Harmonic Oscillators With Continuous and Sampled Coupling. *Wang, Z., +, TSMC Feb. 2021 1267-1277*
- Robust Containment Control of Uncertain Multi-Agent Systems With Time-Delay and Heterogeneous Lipschitz Nonlinearity. *Parsa, M., +, TSMC April 2021 2312-2321*
- Scaled Tracking Consensus in Discrete-Time Second-Order Multiagent Systems With Random Packet Dropouts. *Shi, L., +, TSMC Dec. 2021 7745-7751*
- Sliding Mode Control of Interval Type-2 Fuzzy Systems Under Round-Robin Scheduling Protocol. *Zhang, Z., +, TSMC Dec. 2021 7602-7612*

Psychology

- Design and Analysis of a Human–Machine Interaction System for Researching Human’s Dynamic Emotion. *Sun, X., +, TSMC Oct. 2021 6111-6121*
- Toward Autonomous Adaptive Intelligence: Building Upon Neural Models of How Brains Make Minds. *Grossberg, S., TSMC Jan. 2021 51-75*

Q**Quadratic programming**

- A Strictly Predefined-Time Convergent Neural Solution to Equality- and Inequality-Constrained Time-Variant Quadratic Programming. *Li, W., +, TSMC July 2021 4028-4039*
- Resilience Indices for Power/Cyberphysical Systems. *Talukder, S., +, TSMC April 2021 2159-2172*
- Stepsize Interval Confirmation of General Four-Step DTZN Algorithm Illustrated With Future Quadratic Programming and Tracking Control of Manipulators. *Guo, J., +, TSMC March 2021 1662-1670*
- Trajectory Planning of Free-Floating Space Manipulators With Spacecraft Attitude Stabilization and Manipulability Optimization. *Lu, X., +, TSMC Dec. 2021 7346-7362*
- Two Hybrid Multiobjective Motion Planning Schemes Synthesized by Recurrent Neural Networks for Wheeled Mobile Robot Manipulators. *Zhang, Z., +, TSMC May 2021 3270-3281*

Quality control

- Quality Inspection Based on Quadrangular Object Detection for Deep Aperture Component. *Zhang, J., +, TSMC Oct. 2021 5938-5948*

Quality of service

- Location-Aware Deep Collaborative Filtering for Service Recommendation. *Zhang, Y., +, TSMC June 2021 3796-3807*
- Real-Time Taxi–Passenger Matching Using a Differential Evolutionary Fuzzy Controller. *Gong, Y., +, TSMC May 2021 2712-2725*
- Resilience Indices for Power/Cyberphysical Systems. *Talukder, S., +, TSMC April 2021 2159-2172*
- Resilient Load Frequency Control of Cyber-Physical Power Systems Under QoS-Dependent Event-Triggered Communication. *Sun, H., +, TSMC April 2021 2113-2122*

Quantization (signal)

- Co-Design of Quantization and Event-Driven Control for Networked Control Systems. *Liu, X., +, TSMC May 2021 3103-3110*
- Distributed Fusion Estimation for Unstable Systems With Quantized Innovations. *Xiang, B., +, TSMC Oct. 2021 6381-6387*
- Distributed Quantized Optimization Design of Continuous-Time Multiagent Systems Over Switching Graphs. *Chen, Z., +, TSMC Nov. 2021 7152-7163*

Interval Type-2 FNN-Based Quantized Tracking Control for Hypersonic Flight Vehicles With Prescribed Performance. *Gao, Y., +, TSMC March 2021 1981-1993*

Predictive Cloud Control for Networked Multiagent Systems With Quantized Signals Under DoS Attacks. *Yang, H., +, TSMC Feb. 2021 1345-1353*

Quantized Control of Networked Control Systems Under Stochastic Clock Offsets. *Sun, H., +, TSMC May 2021 3004-3013*

Quantized Sliding Mode Control of Unmanned Marine Vehicles: Various Thruster Faults Tolerated With a Unified Model. *Hao, L., +, TSMC March 2021 2012-2026*

Quasi-Synchronization for Periodic Neural Networks With Asynchronous Target and Constrained Information. *Xu, Y., +, TSMC July 2021 4379-4388*

Synchronization of Lurie Systems Under Limited Network Transmission Capacity With Quantization and One-Step Packet Dropout: An Active Method. *Zhou, T., +, TSMC Aug. 2021 4920-4928*

Quaternions

Pose Synchronization of Multiple Networked Manipulators Using Nonsingular Terminal Sliding Mode Control. *Shen, H., +, TSMC Dec. 2021 7497-7509*

R**Radial basis function networks**

A Novel Finite-Time Control for Nonstrict Feedback Saturated Nonlinear Systems With Tracking Error Constraint. *Sun, K., +, TSMC June 2021 3968-3979*

Adaptive Neural Network Control Design for Uncertain Nonstrict Feedback Nonlinear System With State Constraints. *Ma, L., +, TSMC June 2021 3678-3686*

Adaptive Neural Tracking Control Scheme of Switched Stochastic Nonlinear Pure-Feedback Nonlower Triangular Systems. *Niu, B., +, TSMC Feb. 2021 975-986*

Adaptive NN Cooperative Control of Unknown Nonlinear Multiagent Systems With Communication Delays. *Psillakis, H.E., TSMC Sept. 2021 5311-5321*

Adaptive NN Cross Backstepping Control for Nonlinear Systems With Partial Time-Varying State Constraints and Its Applications to Hyper-Chaotic Systems. *Li, D., +, TSMC May 2021 2821-2832*

Force Sensorless Admittance Control for Teleoperation of Uncertain Robot Manipulator Using Neural Networks. *Yang, C., +, TSMC May 2021 3282-3292*

Muscle-Synergies-Based Neuromuscular Control for Motion Learning and Generalization of a Musculoskeletal System. *Chen, J., +, TSMC June 2021 3993-4006*

Neural Network-Based Adaptive Fault-Tolerant Control for Markovian Jump Systems With Nonlinearity and Actuator Faults. *Yang, H., +, TSMC June 2021 3687-3698*

Neural Network-Based Cooperative Identification for a Class of Unknown Nonlinear Systems via Event-Triggered Communication. *Gao, F., +, TSMC March 2021 1404-1413*

Neural Network-Based Sampled-Data Control for Switched Uncertain Nonlinear Systems. *Li, S., +, TSMC Sept. 2021 5437-5445*

RBFNN-Based Adaptive Iterative Learning Fault-Tolerant Control for Subway Trains With Actuator Faults and Speed Constraint. *Liu, G., +, TSMC Sept. 2021 5785-5799*

Sliding-Mode Observer-Based Fault Reconstruction for T-S Fuzzy Descriptor Systems. *Li, R., +, TSMC Aug. 2021 5046-5055*

Small-Gain Technique-Based Adaptive Neural Output-Feedback Fault-Tolerant Control of Switched Nonlinear Systems With Unmodeled Dynamics. *Ma, L., +, TSMC Nov. 2021 7051-7062*

Radiofrequency identification

A Heterogeneous Data Analytics Framework for RFID-Enabled Factories. *Zhong, R.Y., +, TSMC Sept. 2021 5567-5576*

Radionavigation

An Indoor Positioning Algorithm Based on Fingerprint and Mobility Prediction in RSS Fluctuation-Prone WLANs. *Lin, C., +, TSMC May 2021 2926-2936*

- Time-Efficient Indoor Navigation and Evacuation With Fastest Path Planning Based on Internet of Things Technologies. *Chen, L., +, TSMC May 2021 3125-3135*
- Rail traffic**
- A Three-Layer Model for Studying Metro Network Dynamics. *Wu, X., +, TSMC May 2021 2665-2675*
- Rail traffic control**
- RBNN-Based Adaptive Iterative Learning Fault-Tolerant Control for Subway Trains With Actuator Faults and Speed Constraint. *Liu, G., +, TSMC Sept. 2021 5785-5799*
- Railway engineering**
- Adaptive Iterative Learning Control for High-Speed Train: A Multi-Agent Approach. *Huang, D., +, TSMC July 2021 4067-4077*
- Multialgorithm Fusion Image Processing for High Speed Railway Dropper Failure-Defect Detection. *Tan, P., +, TSMC July 2021 4466-4478*
- Railways**
- A Three-Layer Model for Studying Metro Network Dynamics. *Wu, X., +, TSMC May 2021 2665-2675*
- RBNN-Based Adaptive Iterative Learning Fault-Tolerant Control for Subway Trains With Actuator Faults and Speed Constraint. *Liu, G., +, TSMC Sept. 2021 5785-5799*
- Random noise**
- Event-Triggered Privacy-Preserving Average Consensus for Multiagent Networks With Time Delay: An Output Mask Approach. *Wang, A., +, TSMC July 2021 4520-4531*
- Random number generation**
- Finite-Time Synchronization of Memristor-Based Recurrent Neural Networks With Inertial Items and Mixed Delays. *Lu, Z., +, TSMC May 2021 2701-2711*
- Random processes**
- Deep Attributed Network Embedding by Preserving Structure and Attribute Information. *Hong, R., +, TSMC March 2021 1434-1445*
- Economic Design of a Linear Consecutively Connected System Considering Cost and Signal Loss. *Gao, K., +, TSMC Aug. 2021 5116-5128*
- Robustness Evaluation of Multipartite Complex Networks Based on Percolation Theory. *Cai, Q., +, TSMC Oct. 2021 6244-6257*
- Reachability analysis**
- Decision on Maximal Permissiveness of Linear Constraints via Structural Analysis of a Subclass of Petri Nets. *Chen, H., +, TSMC July 2021 4347-4358*
- Distributed Diagnostic Problem Solving With Colored Behavioral Petri Nets. *Mancer, S., +, TSMC June 2021 3380-3391*
- Stabilization and Finite-Time Stabilization of Probabilistic Boolean Control Networks. *Wang, L., +, TSMC March 2021 1559-1566*
- Topological Structure, Reachability, and Stabilization of Constrained Boolean Control Networks via Event-Triggered Control. *Lin, L., +, TSMC June 2021 3565-3574*
- Recommender systems**
- A Deep Latent Factor Model for High-Dimensional and Sparse Matrices in Recommender Systems. *Wu, D., +, TSMC July 2021 4285-4296*
- An Instance-Frequency-Weighted Regularization Scheme for Non-Negative Latent Factor Analysis on High-Dimensional and Sparse Data. *Luo, X., +, TSMC June 2021 3522-3532*
- Collaborative Neural Social Recommendation. *Wu, L., +, TSMC Jan. 2021 464-476*
- Latent Factor-Based Recommenders Relying on Extended Stochastic Gradient Descent Algorithms. *Luo, X., +, TSMC Feb. 2021 916-926*
- Location-Aware Deep Collaborative Filtering for Service Recommendation. *Zhang, Y., +, TSMC June 2021 3796-3807*
- Non-Negative Latent Factor Model Based on β -Divergence for Recommender Systems. *Xin, L., +, TSMC Aug. 2021 4612-4623*
- Recurrent neural networks**
- A Strictly Predefined-Time Convergent Neural Solution to Equality- and Inequality-Constrained Time-Variant Quadratic Programming. *Li, W., +, TSMC July 2021 4028-4039*
- E-LSTM-D: A Deep Learning Framework for Dynamic Network Link Prediction. *Chen, J., +, TSMC June 2021 3699-3712*
- Finite-Time Synchronization of Memristor-Based Recurrent Neural Networks With Inertial Items and Mixed Delays. *Lu, Z., +, TSMC May 2021 2701-2711*
- Generalized Variant Support Vector Machine. *Mohammadi, M., +, TSMC May 2021 2798-2809*
- Intelligent Leader-Following Consensus Formation Control Using Recurrent Neural Networks for Small-Size Unmanned Helicopters. *Kuo, C., +, TSMC Feb. 2021 1288-1301*
- Memristive LSTM Network for Sentiment Analysis. *Wen, S., +, TSMC March 2021 1794-1804*
- Parametric NCP-Based Recurrent Neural Network Model: A New Strategy to Solve Fuzzy Nonconvex Optimization Problems. *Mansoori, A., +, TSMC April 2021 2592-2601*
- Prediction-Based Seabed Terrain Following Control for an Underwater Vehicle-Manipulator System. *Cai, M., +, TSMC Aug. 2021 4751-4760*
- Promotion of Answer Value Measurement With Domain Effects in Community Question Answering Systems. *Jin, B., +, TSMC May 2021 3068-3079*
- Two Hybrid Multiobjective Motion Planning Schemes Synthesized by Recurrent Neural Networks for Wheeled Mobile Robot Manipulators. *Zhang, Z., +, TSMC May 2021 3270-3281*
- Word Representation Learning Based on Bidirectional GRUs With Drop Loss for Sentiment Classification. *Sun, X., +, TSMC July 2021 4532-4542*
- Recursive estimation**
- Adaptive Tracking Control of FIR Systems Under Binary-Valued Observations and Recursive Projection Identification. *Wang, T., +, TSMC Sept. 2021 5289-5299*
- Asymptotically Efficient Recursive Identification of FIR Systems With Binary-Valued Observations. *Zhang, H., +, TSMC May 2021 2687-2700*
- Event-Based Distributed Adaptive Kalman Filtering With Unknown Covariance of Process Noises. *Mao, J., +, TSMC Oct. 2021 6170-6182*
- Recursive filters**
- Full Information Estimation for Time-Varying Systems Subject to Round-Robin Scheduling: A Recursive Filter Approach. *Zou, L., +, TSMC March 2021 1904-1916*
- Recursive Filtering of Distributed Cyber-Physical Systems With Attack Detection. *Ding, D., +, TSMC Oct. 2021 6466-6476*
- Reduced order systems**
- Distributed Output-Feedback Tracking of Multiple Nonlinear Systems With Unmeasurable States. *Li, W., +, TSMC Jan. 2021 477-486*
- Redundant manipulators**
- New Joint-Drift-Free Scheme Aided with Projected ZNN for Motion Generation of Redundant Robot Manipulators Perturbed by Disturbances. *Lu, H., +, TSMC Sept. 2021 5639-5651*
- Two Hybrid Multiobjective Motion Planning Schemes Synthesized by Recurrent Neural Networks for Wheeled Mobile Robot Manipulators. *Zhang, Z., +, TSMC May 2021 3270-3281*
- Regression analysis**
- A Real-Time Robotic Grasping Approach With Oriented Anchor Box. *Zhang, H., +, TSMC May 2021 3014-3025*
- A Sparse Dimensionality Reduction Approach Based on False Nearest Neighbors for Nonlinear Fault Detection. *Yi, J., +, TSMC Aug. 2021 4980-4992*
- A Unified Scheme for Distance Metric Learning and Clustering via Rank-Reduced Regression. *Guo, W., +, TSMC Aug. 2021 5218-5229*
- Dissimilarity Analysis-Based Multimode Modeling for Complex Distributed Parameter Systems. *Wang, Z., +, TSMC May 2021 2789-2797*
- Evidential Reasoning Rule-Based Decision Support System for Predicting ICU Admission and In-Hospital Death of Trauma. *Kong, G., +, TSMC Nov. 2021 7131-7142*
- Inferring Network Structure and Estimating Dynamical Process From Binary-State Data via Logistic Regression. *Liu, Q., +, TSMC Aug. 2021 4639-4649*
- Large-Scale Twin Parametric Support Vector Machine Using Pinball Loss Function. *Sharma, S., +, TSMC Feb. 2021 987-1003*
- Linear and Nonlinear Regression-Based Maximum Correntropy Extended Kalman Filtering. *Liu, X., +, TSMC May 2021 3093-3102*
- Multitask TSK Fuzzy System Modeling by Jointly Reducing Rules and Consequent Parameters. *Wang, J., +, TSMC July 2021 4078-4090*

- Skill Learning From Human Demonstrations Using Dynamical Regressive Models for Multitask Applications. *Dutta, S., +, TSMC Jan. 2021 659-672*
- Stable Adaptive Controller Based on Generalized Regression Neural Networks and Sliding Mode Control for a Class of Nonlinear Time-Varying Systems. *Al-Mahasneh, A.J., +, TSMC April 2021 2525-2535*
- Reinforcement learning**
- Deep Q-Learning With Q-Matrix Transfer Learning for Novel Fire Evacuation Environment. *Sharma, J., +, TSMC Dec. 2021 7363-7381*
- Reliability**
- Deep Adversarial Domain Adaptation Model for Bearing Fault Diagnosis. *Liu, Z., +, TSMC July 2021 4217-4226*
- Reliability theory**
- Perturbation Analysis of Evidential Reasoning Rule. *Tang, S., +, TSMC Aug. 2021 4895-4910*
- Reliability Modeling for Sparsely Connected Homogeneous Multistate Consecutive-k-Out-of-n: GSystems. *Gao, H., +, TSMC March 2021 1844-1854*
- Remaining life assessment**
- System-Level Prognostics Under Mission Profile Effects Using Inoperability Input–Output Model. *Tamssaouet, F., +, TSMC Aug. 2021 4659-4669*
- Remote sensing**
- A Transfer Classification Method for Heterogeneous Data Based on Evidence Theory. *Liu, Z., +, TSMC Aug. 2021 5129-5141*
- Remotely operated vehicles**
- Adaptive Path Following Control of Unmanned Surface Vehicles Considering Environmental Disturbances and System Constraints. *Liu, Z., +, TSMC Jan. 2021 339-353*
- Curved Path Following for Unmanned Surface Vehicles With Heading Amendment. *Qu, Y., +, TSMC July 2021 4183-4192*
- Distributed Lyapunov-Based Model Predictive Formation Tracking Control for Autonomous Underwater Vehicles Subject to Disturbances. *Wei, H., +, TSMC Aug. 2021 5198-5208*
- Event-Triggered H_∞ Depth Control of Remotely Operated Underwater Vehicles. *Batmani, Y., +, TSMC Feb. 2021 1224-1232*
- Fixed-Time Cooperative Relay Tracking in Multiagent Surveillance Networks. *Du, S., +, TSMC Jan. 2021 487-496*
- Intelligent Leader-Following Consensus Formation Control Using Recurrent Neural Networks for Small-Size Unmanned Helicopters. *Kuo, C., +, TSMC Feb. 2021 1288-1301*
- Observer-Based Finite-Time Control for Distributed Path Maneuvering of Underactuated Unmanned Surface Vehicles With Collision Avoidance and Connectivity Preservation. *Gu, N., +, TSMC Aug. 2021 5105-5115*
- Robust Distributed Formation Controller Design for a Group of Unmanned Underwater Vehicles. *Liu, H., +, TSMC Feb. 2021 1215-1223*
- Trajectory Tracking Control of Autonomous Underwater Vehicle With Unknown Parameters and External Disturbances. *Yang, X., +, TSMC Feb. 2021 1054-1063*
- Rendering (computer graphics)**
- Bleeding Simulation With Improved Visual Effects for Surgical Simulation Systems. *Shi, W., +, TSMC Feb. 2021 686-695*
- Robust 3-D Object Recognition via View-Specific Constraint. *Liu, H., +, TSMC Nov. 2021 7109-7119*
- Renewable energy sources**
- A Two-Stage Approach for Efficient Power Sharing Within Energy Districts. *Giordano, A., +, TSMC March 2021 1679-1689*
- Stability-Oriented Droop Coefficients Region Identification for Inverters Within Weak Grid: An Impedance-Based Approach. *Wang, R., +, TSMC April 2021 2258-2268*
- Research and development**
- Systems Science and Engineering Research in the Context of Systems, Man, and Cybernetics: Recollection, Trends, and Future Directions. *Tunstel, E., +, TSMC Jan. 2021 5-21*
- Resistance**
- Distributed Velocity and Input Constrained Tracking Control of High-Speed Train Systems. *Lin, P., +, TSMC Dec. 2021 7882-7888*
- Resource allocation**
- A Two-Phase Coordinated Planning Approach for Heterogeneous Earth-Observation Resources to Monitor Area Targets. *Deng, M., +, TSMC Oct. 2021 6388-6403*
- An Adaptive Resource Allocation Strategy for Objective Space Partition-Based Multiobjective Optimization. *Chen, H., +, TSMC March 2021 1507-1522*
- Concurrent Processing Cluster Design to Empower Simultaneous Prediction for Hundreds of Vessels' Trajectories in Near Real-Time. *Xiao, Z., +, TSMC March 2021 1830-1843*
- Distributed Algorithm Design for Resource Allocation Problems of Second-Order Multiagent Systems Over Weight-Balanced Digraphs. *Deng, Z., TSMC June 2021 3512-3521*
- Distributed Resource Allocation Over Directed Graphs via Continuous-Time Algorithms. *Zhu, Y., +, TSMC Feb. 2021 1097-1106*
- Dynamic Control of Fraud Information Spreading in Mobile Social Networks. *Lin, Y., +, TSMC June 2021 3725-3738*
- Group-Oriented Task Allocation for Crowdsourcing in Social Networks. *Jiang, J., +, TSMC July 2021 4417-4432*
- Retailing**
- Managing Online Channel and Optimization in Supply Chain Systems With Different Channel Leaderships. *Xu, L., +, TSMC Nov. 2021 7177-7190*
- Mobile-App-Online-Website Dual Channel Strategies: Privacy Concerns, E-Payment Convenience, Channel Relationship, and Coordination. *Choi, T., TSMC Nov. 2021 7008-7016*
- Reviews**
- Direct-Sense Brain–Computer Interfaces and Wearable Computers. *Lin, C., +, TSMC Jan. 2021 298-312*
- Riccati equations**
- Admissible Consensus for Homogenous Descriptor Multiagent Systems. *Liu, X., +, TSMC Feb. 2021 965-974*
- Event-Triggered Consensus of General Linear Multiagent Systems With Data Sampling and Random Packet Losses. *Wang, F., +, TSMC Feb. 2021 1313-1321*
- Optimal Consensus via Distributed Protocol for Second-Order Multiagent Systems. *Sun, H., +, TSMC Oct. 2021 6218-6228*
- Optimal Control and Stabilization for Networked Systems With Input Delay and Markovian Packet Losses. *Li, H., +, TSMC July 2021 4453-4465*
- Optimal Output Synchronization Control of a Class of Complex Dynamical Networks With Partially Unknown System Dynamics. *Wang, N., +, TSMC Feb. 2021 822-832*
- Semiglobal Observer-Based Positive Scaled Edge-Consensus of Networked Discrete-Time Systems Under Actuator Saturation. *Sun, Y., +, TSMC July 2021 4543-4554*
- Stability Analysis for Input Saturated Discrete-Time Switched Systems With Average Dwell-Time. *Wang, Q., +, TSMC Jan. 2021 412-419*
- Rigidity**
- Asymmetric Bounded Neural Control for an Uncertain Robot by State Feedback and Output Feedback. *Kong, L., +, TSMC March 2021 1735-1746*
- Risk management**
- Pythagorean Fuzzy Petri Nets for Knowledge Representation and Reasoning in Large Group Context. *Liu, H., +, TSMC Aug. 2021 5261-5271*
- Road safety**
- A Complex Network-Based Broad Learning System for Detecting Driver Fatigue From EEG Signals. *Yang, Y., +, TSMC Sept. 2021 5800-5808*
- Robust Vehicle Driver Assistance Control for Handover Scenarios Considering Driving Performances. *Chen, Y., +, TSMC July 2021 4160-4170*
- Visual Regulation of Differential-Drive Mobile Robots: A Nonadaptive Switching Approach. *Lu, Q., +, TSMC Nov. 2021 6874-6884*
- Road vehicles**
- Distributed Secure Platoon Control of Connected Vehicles Subject to DoS Attack: Theory and Application. *Zhang, D., +, TSMC Nov. 2021 7269-7278*
- IWSCR: An Intelligent Water Surface Cleaner Robot for Collecting Floating Garbage. *Kong, S., +, TSMC Oct. 2021 6358-6368*
- Multiobjective Multiple Neighborhood Search Algorithms for Multiobjective Fleet Size and Mix Location-Routing Problem With Time Windows. *Wang, J., +, TSMC April 2021 2284-2298*
- RISE-Based Integrated Motion Control of Autonomous Ground Vehicles With Asymptotic Prescribed Performance. *Hu, C., +, TSMC Sept. 2021 5336-5348*

Robust Vehicle Driver Assistance Control for Handover Scenarios Considering Driving Performances. *Chen, Y.*, +, *TSMC July 2021 4160-4170*
 Visual Regulation of Differential-Drive Mobile Robots: A Nonadaptive Switching Approach. *Lu, Q.*, +, *TSMC Nov. 2021 6874-6884*

Roads

Active Fault-Tolerant Control for Discrete Vehicle Active Suspension Via Reduced-Order Observer. *Han, S.*, +, *TSMC Nov. 2021 6701-6711*

Robot dynamics

Adaptive Finite-Time Saturated Tracking Control for a Class of Partially Known Robots. *Hwang, C.*, +, *TSMC Sept. 2021 5674-5685*
 Curved Path Following for Unmanned Surface Vehicles With Heading Amendment. *Qu, Y.*, +, *TSMC July 2021 4183-4192*
 Design and Control of a Two-Motor-Actuated Tuna-Inspired Robot System. *Du, S.*, +, *TSMC Aug. 2021 4670-4680*
 Model-Based Adaptive Control of Transfemoral Prostheses: Theory, Simulation, and Experiments. *Azimi, V.*, +, *TSMC Feb. 2021 1174-1191*
 Neural Integral Backstepping Hierarchical Sliding Mode Control for a Rideable Ballbot Under Uncertainties and Input Saturation. *Do, V.*, +, *TSMC Nov. 2021 7214-7227*
 Skill Learning From Human Demonstrations Using Dynamical Regressive Models for Multitask Applications. *Dutta, S.*, +, *TSMC Jan. 2021 659-672*
 Stability-Guaranteed Variable Impedance Control of Robots Based on Approximate Dynamic Inversion. *Sun, T.*, +, *TSMC July 2021 4193-4200*
 Targeting Posture Control With Dynamic Obstacle Avoidance of Constrained Uncertain Wheeled Mobile Robots Including Unknown Skidding and Slipping. *Lu, Q.*, +, *TSMC Nov. 2021 6650-6659*

Robot kinematics

A Strictly Predefined-Time Convergent Neural Solution to Equality- and Inequality-Constrained Time-Variant Quadratic Programming. *Li, W.*, +, *TSMC July 2021 4028-4039*
 Design and Control of a Two-Motor-Actuated Tuna-Inspired Robot System. *Du, S.*, +, *TSMC Aug. 2021 4670-4680*
 Multisensor-Based Navigation and Control of a Mobile Service Robot. *Yuan, W.*, +, *TSMC April 2021 2624-2634*
 Reinforcement Learning Control of a Flexible Two-Link Manipulator: An Experimental Investigation. *He, W.*, +, *TSMC Dec. 2021 7326-7336*
 Skill Learning From Human Demonstrations Using Dynamical Regressive Models for Multitask Applications. *Dutta, S.*, +, *TSMC Jan. 2021 659-672*
 Targeting Posture Control With Dynamic Obstacle Avoidance of Constrained Uncertain Wheeled Mobile Robots Including Unknown Skidding and Slipping. *Lu, Q.*, +, *TSMC Nov. 2021 6650-6659*
 Underwater Target Tracking Control of an Untethered Robotic Fish With a Camera Stabilizer. *Yu, J.*, +, *TSMC Oct. 2021 6523-6534*

Robot sensing systems

Detection of Data Integrity Attacks in Distributed State Estimation. *Xia, Y.*, +, *TSMC Dec. 2021 7735-7744*

Robot vision

A Novel Approach to Image-Sequence-Based Mobile Robot Place Recognition. *Yuan, J.*, +, *TSMC Sept. 2021 5377-5391*
 A Real-Time Robotic Grasping Approach With Oriented Anchor Box. *Zhang, H.*, +, *TSMC May 2021 3014-3025*
 A Visual Leader-Following Approach With a T-D-R Framework for Quadraped Robots. *Pang, L.*, +, *TSMC April 2021 2342-2354*
 An Efficient Method to Recover Relative Pose for Vehicle-Mounted Cameras Under Planar Motion. *Zhang, X.*, +, *TSMC Feb. 2021 1138-1148*
 Coordinated Control of Underwater Biomimetic Vehicle-Manipulator System for Free Floating Autonomous Manipulation. *Cai, M.*, +, *TSMC Aug. 2021 4793-4803*
 IWSCR: An Intelligent Water Surface Cleaner Robot for Collecting Floating Garbage. *Kong, S.*, +, *TSMC Oct. 2021 6358-6368*
 Laser-Based Intersection-Aware Human Following With a Mobile Robot in Indoor Environments. *Yuan, J.*, +, *TSMC Jan. 2021 354-369*
 Multisensor-Based Navigation and Control of a Mobile Service Robot. *Yuan, W.*, +, *TSMC April 2021 2624-2634*
 Underwater Target Tracking Control of an Untethered Robotic Fish With a Camera Stabilizer. *Yu, J.*, +, *TSMC Oct. 2021 6523-6534*
 Visual Regulation of Differential-Drive Mobile Robots: A Nonadaptive Switching Approach. *Lu, Q.*, +, *TSMC Nov. 2021 6874-6884*

Visual Servoing of a Flexible Aerial Refueling Boom With an Eye-in-Hand Camera. *Cui, L.*, +, *TSMC Oct. 2021 6282-6292*
 Visual Trajectory Tracking of Wheeled Mobile Robots With Uncalibrated Camera Extrinsic Parameters. *Zhang, K.*, +, *TSMC Nov. 2021 7191-7200*

Robots

Deep Learning in Robotics: Survey on Model Structures and Training Strategies. *Karoly, A.I.*, +, *TSMC Jan. 2021 266-279*
 Integrated Scheduling of a Dual-Armed Cluster Tool for Maximizing Steady Schedule Patterns. *Kim, W.*, +, *TSMC Dec. 2021 7282-7294*
 Skill Learning From Human Demonstrations Using Dynamical Regressive Models for Multitask Applications. *Dutta, S.*, +, *TSMC Jan. 2021 659-672*

Robust control

A New Switched System Approach to Leader-Follower Consensus of Heterogeneous Linear Multiagent Systems With DoS Attack. *Zhang, D.*, +, *TSMC Feb. 2021 1258-1266*
 A Novel Robust Control Method for Motion Control of Uncertain Single-Link Flexible-Joint Manipulator. *Yan, Z.*, +, *TSMC March 2021 1671-1678*
 Adaptive Compensation of Persistent Actuator Failures Using Control-Separation-Based LQ Design. *Wen, L.*, +, *TSMC Aug. 2021 5030-5045*
 Adaptive Event-Triggered and Double-Quantized Consensus of Leader-Follower Multiagent Systems With Semi-Markovian Jump Parameters. *Gong, C.*, +, *TSMC Sept. 2021 5867-5879*
 Adaptive Finite-Time Saturated Tracking Control for a Class of Partially Known Robots. *Hwang, C.*, +, *TSMC Sept. 2021 5674-5685*
 Adaptive High-Order Terminal Sliding Mode Control Based on Time Delay Estimation for the Robotic Manipulators With Backlash Hysteresis. *Ahmed, S.*, +, *TSMC Feb. 2021 1128-1137*
 Adaptive Quantized Control of Output Feedback Nonlinear Systems With Input Unmodeled Dynamics Based on Backstepping and Small-Gain Method. *Xia, X.*, +, *TSMC Sept. 2021 5686-5697*
 Adaptive Type-2 FNN-Based Dynamic Sliding Mode Control of DC-DC Boost Converters. *Wang, J.*, +, *TSMC April 2021 2246-2257*
 Attitude Exponential Stabilization Control of Rigid Bodies via Disturbance Observer. *Xiao, B.*, +, *TSMC May 2021 2751-2759*
 Auxiliary Constrained Control of a Class of Fault-Tolerant Systems. *Jin, X.*, +, *TSMC April 2021 2272-2283*
 Bank of High-Gain Observers in Output Feedback Control: Robustness Analysis Against Measurement Noise. *Esfandiari, K.*, +, *TSMC April 2021 2476-2487*
 Constraint-Based Control Design for Uncertain Underactuated Mechanical System: Leakage-Type Adaptation Mechanism. *Sun, H.*, +, *TSMC Dec. 2021 7663-7674*
 Control Design for Uncertain Switched Nonlinear Systems: Adaptive Neural Approach. *Liu, Z.*, +, *TSMC April 2021 2322-2331*
 Design of Output-Based Finite-Time Convergent Composite Controller for a Class of Perturbed Second-Order Nonlinear Systems. *Zhu, W.*, +, *TSMC Nov. 2021 6768-6778*
 Design of Sliding-Mode-Based Control for Nonlinear Systems With Mixed-Delays and Packet Losses Under Uncertain Missing Probability. *Hu, J.*, +, *TSMC May 2021 3217-3228*
 Distributed Containment Maneuvering of Uncertain Multiagent Systems in MIMO Strict-Feedback Form. *Zhang, Y.*, +, *TSMC Feb. 2021 1354-1364*
 Distributed Lyapunov-Based Model Predictive Formation Tracking Control for Autonomous Underwater Vehicles Subject to Disturbances. *Wei, H.*, +, *TSMC Aug. 2021 5198-5208*
 Distributed Robust Adaptive Optimization for Nonlinear Multiagent Systems. *Liu, Y.*, +, *TSMC Feb. 2021 1046-1053*
 Echo State Network-Based Decentralized Control of Continuous-Time Nonlinear Large-Scale Interconnected Systems. *Zhang, H.*, +, *TSMC Oct. 2021 6293-6303*
 Event-Triggered Control for Multiagent Systems With Sensor Faults and Input Saturation. *Cao, L.*, +, *TSMC June 2021 3855-3866*
 Event-Triggered H_∞ Depth Control of Remotely Operated Underwater Vehicles. *Batmani, Y.*, +, *TSMC Feb. 2021 1224-1232*
 Event-Triggered Robust Output Regulation of Uncertain Linear Systems With Unknown Exosystems. *Qian, Y.*, +, *TSMC July 2021 4139-4148*

- Extended State Observer-Based Data-Driven Iterative Learning Control for Permanent Magnet Linear Motor With Initial Shifts and Disturbances. *Hui, Y.*, +, *TSMC March 2021 1881-1891*
- Funnel Control of Uncertain High-Order Nonlinear Systems With Unknown Rational Powers. *Liu, Y.*, +, *TSMC Sept. 2021 5732-5741*
- Global Consensus of Positive Edge System With Sector Input Nonlinearities. *Wu, H.*, +, *TSMC July 2021 4057-4066*
- Global Finite Time Active Disturbance Rejection Control for Parallel Manipulators With Unknown Bounded Uncertainties. *Nguyen, V.*, +, *TSMC Dec. 2021 7838-7849*
- High-Order Internal Model-Based Iterative Learning Control for 2-D Linear FMMI Systems With Iteration-Varying Trajectory Tracking. *Wan, K.*, +, *TSMC March 2021 1462-1472*
- High-Precision Attitude Tracking Control of Space Manipulator System Under Multiple Disturbances. *Qiao, J.*, +, *TSMC July 2021 4274-4284*
- Hybrid PD-Fuzzy and PD Controllers for Trajectory Tracking of a Quadrotor Unmanned Aerial Vehicle: Autopilot Designs and Real-Time Flight Tests. *Santoso, F.*, +, *TSMC March 2021 1817-1829*
- Integrated Synchronization and Anti-Disturbance Control Design for Fuzzy Model-Based Multiweighted Complex Network. *Kaviarasan, B.*, +, *TSMC Oct. 2021 6330-6341*
- LPV Scheme for Robust Adaptive Output Feedback Consensus of Lipschitz Multiagents Using Lipschitz Nonlinear Protocol. *Rehman, A.u.*, +, *TSMC Nov. 2021 7040-7050*
- Lyapunov Control Method for Mismatched Uncertainty and Gain Variation Compensation in Switched Systems. *Aghababa, M.P.*, *TSMC July 2021 4227-4237*
- Model-Based Adaptive Control of Transfemoral Prostheses: Theory, Simulation, and Experiments. *Azimi, V.*, +, *TSMC Feb. 2021 1174-1191*
- Multisensor-Based Navigation and Control of a Mobile Service Robot. *Yuan, W.*, +, *TSMC April 2021 2624-2634*
- Neural Integral Backstepping Hierarchical Sliding Mode Control for a Rideable Ballbot Under Uncertainties and Input Saturation. *Do, V.*, +, *TSMC Nov. 2021 7214-7227*
- Neural Networks-Based Fault Tolerant Control of a Robot via Fast Terminal Sliding Mode. *Zhang, S.*, +, *TSMC July 2021 4091-4101*
- New Noise-Tolerant ZNN Models With Predefined-Time Convergence for Time-Variant Sylvester Equation Solving. *Xiao, L.*, +, *TSMC June 2021 3629-3640*
- Nonfragile Observer-Based Control for Markovian Jump Systems Subject to Asynchronous Modes. *Tao, J.*, +, *TSMC June 2021 3533-3540*
- On the Principle and Applications of Conditional Disturbance Negation. *Pu, Z.*, +, *TSMC Nov. 2021 6757-6767*
- Prescribed Performance Neuroadaptive Fault-Tolerant Compensation for MIMO Nonlinear Systems Under Extreme Actuator Failures. *Zhou, S.*, +, *TSMC Sept. 2021 5427-5436*
- Reduced-Order Estimator-Based Efficient Fault-Tolerant Tracking Control Optimization for Constrained LPV Systems. *Han, K.*, +, *TSMC Sept. 2021 5855-5866*
- Reliable Fuzzy H_∞ Control for Permanent Magnet Synchronous Motor Against Stochastic Actuator Faults. *Vadivel, R.*, +, *TSMC April 2021 2232-2245*
- Rendezvous of Heterogeneous Multiagent Systems With Nonuniform Time-Varying Information Delays: An Adaptive Approach. *Wang, J.*, +, *TSMC Aug. 2021 4848-4857*
- RISE-Based Integrated Motion Control of Autonomous Ground Vehicles With Asymptotic Prescribed Performance. *Hu, C.*, +, *TSMC Sept. 2021 5336-5348*
- Robust Adaptive Control for State-Constrained Nonlinear Systems With Input Saturation and Unknown Control Direction. *Wu, Y.*, +, *TSMC Feb. 2021 1192-1202*
- Robust Adaptive Neural Control of Nonminimum Phase Hypersonic Vehicle Model. *Xu, B.*, +, *TSMC Feb. 2021 1107-1115*
- Robust Distributed Formation Controller Design for a Group of Unmanned Underwater Vehicles. *Liu, H.*, +, *TSMC Feb. 2021 1215-1223*
- Robust Exact Predictive Scheme for Output-Feedback Control of Input-Delay Systems With Unmatched Sinusoidal Disturbances. *Shi, S.*, +, *TSMC Sept. 2021 5357-5366*
- Robust Exponential Stability Analysis for Stochastic Systems With Actuator Faults Using Improved Weighted Relaxed Integral Inequality. *Gnanaswaran, N.*, +, *TSMC June 2021 3346-3357*
- Robust Fixed-Time Consensus Tracking Control of High-Order Multiple Nonholonomic Systems. *Shi, S.*, +, *TSMC March 2021 1869-1880*
- Robust H_∞ Sliding Mode Controller Design of a Class of Time-Delayed Discrete Conic-Type Nonlinear Systems. *He, S.*, +, *TSMC Feb. 2021 885-892*
- Robust Invariant Manifold-Based Output Voltage-Tracking Controller for DC/DC Boost Power Conversion Systems. *Kim, S.*, +, *TSMC March 2021 1582-1589*
- Robust Iterative Learning Control of 2-D Linear Discrete FMMII Systems Subject to Iteration-Dependent Uncertainties. *Wan, K.*, +, *TSMC Oct. 2021 5949-5961*
- Robust LMI-Based H-Infinite Controller Integrating AFS and DYC of Autonomous Vehicles With Parametric Uncertainties. *Cheng, S.*, +, *TSMC Nov. 2021 6901-6910*
- Robust Model Predictive Iterative Learning Control for Iteration-Varying-Reference Batch Processes. *Liu, X.*, +, *TSMC July 2021 4238-4250*
- Robust Multimodel Identification of LPV Systems With Missing Observations Based on t-Distribution. *Liu, X.*, +, *TSMC Aug. 2021 5254-5260*
- Robust Particle Filtering With Time-Varying Model Uncertainty and Inaccurate Noise Covariance Matrix. *Li, W.*, +, *TSMC Nov. 2021 7099-7108*
- Robust Resilient Control Based on Multi-Approximator for the Uncertain Turbofan System With Unmeasured States and Disturbances. *Li, Y.*, +, *TSMC Oct. 2021 6040-6049*
- Robust Stabilization of High-Order Nonlinear Systems With Unknown Sensitivities and Applications in Humanoid Robot Manipulation. *Sun, Z.*, +, *TSMC July 2021 4409-4416*
- Robust Time-Varying Formation Control for Tail-Sitters in Flight Mode Transitions. *Liu, D.*, +, *TSMC July 2021 4102-4111*
- Robust Vehicle Driver Assistance Control for Handover Scenarios Considering Driving Performances. *Chen, Y.*, +, *TSMC July 2021 4160-4170*
- Second-Order Sliding Mode Controller Design Subject to an Upper-Triangular Structure. *Mei, K.*, +, *TSMC Jan. 2021 497-507*
- Sliding-Mode Observer-Based Fault Reconstruction for T-S Fuzzy Descriptor Systems. *Li, R.*, +, *TSMC Aug. 2021 5046-5055*
- Soft-Bound Interval Control System and Its Robust Fault-Tolerant Controller Design. *Zhou, J.*, +, *TSMC Jan. 2021 378-390*
- Stability Analysis for Input Saturated Discrete-Time Switched Systems With Average Dwell-Time. *Wang, Q.*, +, *TSMC Jan. 2021 412-419*
- Targeting Posture Control With Dynamic Obstacle Avoidance of Constrained Uncertain Wheeled Mobile Robots Including Unknown Skidding and Slipping. *Lu, Q.*, +, *TSMC Nov. 2021 6650-6659*
- Trajectory Tracking Control of Autonomous Underwater Vehicle With Unknown Parameters and External Disturbances. *Yang, X.*, +, *TSMC Feb. 2021 1054-1063*
- Visual Servoing of a Flexible Aerial Refueling Boom With an Eye-in-Hand Camera. *Cui, L.*, +, *TSMC Oct. 2021 6282-6292*
- Robustness**
- ADP-Based Robust Resilient Control of Partially Unknown Nonlinear Systems via Cooperative Interaction Design. *Huang, X.*, +, *TSMC Dec. 2021 7466-7474*
- Distributed Tracking for Discrete-Time Multiagent Networks via an Ultrafast Control Protocol. *Zhang, W.*, +, *TSMC Dec. 2021 7542-7552*
- Foot Placement Compensator Design for Humanoid Walking Based on Discrete Control Lyapunov Function. *Liu, C.*, +, *TSMC April 2021 2332-2341*
- Rods (structures)**
- Abnormal Source Identification for Parabolic Distributed Parameter Systems. *Feng, Y.*, +, *TSMC Sept. 2021 5698-5707*
- Rolling bearings**
- Deep Adversarial Domain Adaptation Model for Bearing Fault Diagnosis. *Liu, Z.*, +, *TSMC July 2021 4217-4226*
- Equipment Health Assessment Based on Improved Incremental Support Vector Data Description. *Zhang, L.*, +, *TSMC May 2021 3205-3216*

Rotors

Nonlinear Control of Quadrotor for Fault Tolerance: A Total Failure of One Actuator. *Wu, Y.*, +, *TSMC May 2021 2810-2820*

Rough set theory

A Sequential Three-Way Decision Model With Intuitionistic Fuzzy Numbers. *Zhang, Q.*, +, *TSMC May 2021 2640-2652*

Routh methods

Steps Interval Confirmation of General Four-Step DTZN Algorithm Illustrated With Future Quadratic Programming and Tracking Control of Manipulators. *Guo, J.*, +, *TSMC March 2021 1662-1670*

RSSI

An Indoor Positioning Algorithm Based on Fingerprint and Mobility Prediction in RSS Fluctuation-Prone WLANs. *Lin, C.*, +, *TSMC May 2021 2926-2936*

S**S-matrix theory**

Measures of Scatter and Fisher Discriminant Analysis for Uncertain Data. *Tavakkol, B.*, +, *TSMC March 2021 1690-1703*

Safety

Adaptive Sliding Mode Control for Uncertain Active Suspension Systems With Prescribed Performance. *Liu, Y.*, +, *TSMC Oct. 2021 6414-6422*

Sales management

Mobile-App-Online-Website Dual Channel Strategies: Privacy Concerns, E-Payment Convenience, Channel Relationship, and Coordination. *Choi, T.*, *TSMC Nov. 2021 7008-7016*

Sampled data systems

A Disturbance Rejection Framework for Finite-Time and Fixed-Time Stabilization of Delayed Memristive Neural Networks. *Wang, L.*, +, *TSMC Feb. 2021 905-915*

An Improved Result on Sampled-Data Synchronization of Markov Jump Delayed Neural Networks. *Shen, H.*, +, *TSMC June 2021 3608-3616*

An Input Delay Approach to Interval Type-2 Fuzzy Exponential Stabilization for Nonlinear Unreliable Networked Sampled-Data Control Systems. *Du, Z.*, +, *TSMC June 2021 3488-3497*

Characteristic Model-Based Control Approach for Complex Network Systems. *Chen, L.*, +, *TSMC June 2021 3599-3607*

Design of Interval Type-2 Fuzzy-Based Sampled-Data Controller for Nonlinear Systems Using Novel Fuzzy Lyapunov Functional and its Application to PMSM. *Shanmugam, L.*, +, *TSMC Jan. 2021 542-551*

Exponentially Stabilizing Observer-Based Feedback Control of a Sampled-Data Linear Parabolic Multiple-Input–Multiple-Output PDE. *Wang, J.*, *TSMC Sept. 2021 5742-5751*

Fuzzy Sampled-Data Control for DFIG-Based Wind Turbine With Stochastic Actuator Failures. *Sharmila, V.*, +, *TSMC April 2021 2199-2211*

Global Event-Triggered Output Feedback Stabilization of a Class of Nonlinear Systems. *Cheng, Y.*, +, *TSMC July 2021 4040-4047*

Global Output Feedback Sampled-Data Stabilization of a Class of Switched Nonlinear Systems in the p-Normal Form. *Li, S.*, +, *TSMC Feb. 2021 1075-1084*

Model-Based Periodic Event-Triggered Control Strategy to Stabilize a Scalar Nonlinear System. *Dou, R.*, +, *TSMC Sept. 2021 5322-5335*

Necessary and Sufficient Conditions for Consensus in Fractional-Order Multiagent Systems via Sampled Data Over Directed Graph. *Su, H.*, +, *TSMC April 2021 2501-2511*

Neural Network-Based Sampled-Data Control for Switched Uncertain Nonlinear Systems. *Li, S.*, +, *TSMC Sept. 2021 5437-5445*

Nonfragile Consensus of Multiagent Systems Based on Memory Sampled-Data Control. *Ge, C.*, +, *TSMC Jan. 2021 391-399*

Nonfragile Sampled-Data Filtering of Uncertain Fuzzy Systems With Time-Varying Delays. *Luo, J.*, +, *TSMC Aug. 2021 4993-5004*

Quasi-Synchronization in Heterogeneous Harmonic Oscillators With Continuous and Sampled Coupling. *Wang, Z.*, +, *TSMC Feb. 2021 1267-1277*

Second-Order Consensus of Hybrid Multiagent Systems. *Su, H.*, +, *TSMC Oct. 2021 6503-6512*

Stability and Stabilization for T–S Fuzzy Large-Scale Interconnected Power System With Wind Farm via Sampled-Data Control. *Shanmugam, L.*, +, *TSMC April 2021 2134-2144*

Stabilization of Stochastic Retarded Systems Based on Sampled-Data Feedback Control. *Yang, X.*, +, *TSMC Sept. 2021 5895-5904*

Sampling methods

Estimation for Networked Random Sampling Systems With Packet Losses. *Lin, H.*, +, *TSMC Sept. 2021 5511-5521*

Model-Based Periodic Event-Triggered Control Strategy to Stabilize a Scalar Nonlinear System. *Dou, R.*, +, *TSMC Sept. 2021 5322-5335*

Scheduling

An Intelligent Cloud Workflow Scheduling System With Time Estimation and Adaptive Ant Colony Optimization. *Jia, Y.*, +, *TSMC Jan. 2021 634-649*

Closing-Down Optimization for Single-Arm Cluster Tools Subject to Wafer Residency Time Constraints. *Qiao, Y.*, +, *TSMC Nov. 2021 6792-6807*

Efficient Approach to Failure Response of Process Module in Dual-Arm Cluster Tools With Wafer Residency Time Constraints. *Qiao, Y.*, +, *TSMC March 2021 1612-1629*

Full Information Estimation for Time-Varying Systems Subject to Round-Robin Scheduling: A Recursive Filter Approach. *Zou, L.*, +, *TSMC March 2021 1904-1916*

Group Scheduling With Nonperiodical Maintenance and Deteriorating Effects. *Xu, H.*, +, *TSMC May 2021 2860-2872*

Integrated Scheduling of a Dual-Armed Cluster Tool for Maximizing Steady Schedule Patterns. *Kim, W.*, +, *TSMC Dec. 2021 7282-7294*

Scheduling of Flexible Manufacturing Systems Subject to No-Wait Constraints via Petri Nets and Heuristic Search. *Wang, X.*, +, *TSMC Oct. 2021 6122-6133*

Search problems

A Binary Particle Swarm Optimizer With Priority Planning and Hierarchical Learning for Networked Epidemic Control. *Zhao, T.*, +, *TSMC Aug. 2021 5090-5104*

A Parallel Social Spider Optimization Algorithm Based on Emotional Learning. *Lai, Z.*, +, *TSMC Feb. 2021 797-808*

An Adaptive Resource Allocation Strategy for Objective Space Partition-Based Multiobjective Optimization. *Chen, H.*, +, *TSMC March 2021 1507-1522*

Chaotic Local Search-Based Differential Evolution Algorithms for Optimization. *Gao, S.*, +, *TSMC June 2021 3954-3967*

Decomposition-Based Multiobjective Optimization for Constrained Evolutionary Optimization. *Wang, B.*, +, *TSMC Jan. 2021 574-587*

Drivable Path Planning Using Hybrid Search Algorithm Based on E* and Bernstein–Bézier Motion Primitives. *Klančar, G.*, +, *TSMC Aug. 2021 4868-4882*

Enhanced Branch-and-Bound Framework for a Class of Sequencing Problems. *Zhang, Z.*, +, *TSMC May 2021 2726-2736*

Multiobjective Multiple Neighborhood Search Algorithms for Multiobjective Fleet Size and Mix Location-Routing Problem With Time Windows. *Wang, J.*, +, *TSMC April 2021 2284-2298*

Scheduling of Flexible Manufacturing Systems Subject to No-Wait Constraints via Petri Nets and Heuristic Search. *Wang, X.*, +, *TSMC Oct. 2021 6122-6133*

Semantic-Aware Informative Path Planning for Efficient Object Search Using Mobile Robot. *Wang, C.*, +, *TSMC Aug. 2021 5230-5243*

Solving Many-Objective Optimization Problems via Multistage Evolutionary Search. *Chen, H.*, +, *TSMC June 2021 3552-3564*

Solving Multimodal Multiobjective Problems Through Zoning Search. *Fan, Q.*, +, *TSMC Aug. 2021 4836-4847*

Solving Nonlinear Equation Systems by a Two-Phase Evolutionary Algorithm. *Gao, W.*, +, *TSMC Sept. 2021 5652-5663*

Security

Multiagent System-Based Integrated Design of Security Control and Economic Dispatch for Interconnected Microgrid Systems. *Zhang, Z.*, +, *TSMC April 2021 2101-2112*

Observer-Based PID Security Control for Discrete Time-Delay Systems Under Cyber-Attacks. *Zhao, D.*, +, *TSMC June 2021 3926-3938*

Security of data

- A Double-Blind Anonymous Evaluation-Based Trust Model in Cloud Computing Environments. *Zhang, P.*, +, *TSMC March 2021 1805-1816*
- Blockchain-Secured Smart Manufacturing in Industry 4.0: A Survey. *Leng, J.*, +, *TSMC Jan. 2021 237-252*
- Cyber-Physical Attacks Against State Estimators Based on a Finite Frequency Approach. *Wu, Y.*, +, *TSMC Feb. 2021 864-874*
- Optimal Stealthy Innovation-Based Attacks With Historical Data in Cyber-Physical Systems. *Li, Y.*, +, *TSMC June 2021 3401-3411*
- Optimal Switching Attacks and Countermeasures in Cyber-Physical Systems. *Wu, G.*, +, *TSMC Aug. 2021 4825-4835*
- Secure State Estimation and Control of Cyber-Physical Systems: A Survey. *Ding, D.*, +, *TSMC Jan. 2021 176-190*
- Security Control for T-S Fuzzy Systems With Adaptive Event-Triggered Mechanism and Multiple Cyber-Attacks. *Liu, J.*, +, *TSMC Oct. 2021 6544-6554*
- Streaming Data Analysis: Clustering or Classification?. *Bezdek, J.C.*, +, *TSMC Jan. 2021 91-102*
- Synchronization of Resilient Complex Networks Under Attacks. *Wang, P.*, +, *TSMC Feb. 2021 1116-1127*

Self-organizing feature maps

- A Transfer Classification Method for Heterogeneous Data Based on Evidence Theory. *Liu, Z.*, +, *TSMC Aug. 2021 5129-5141*
- Data-Driven Output-Feedback LQ Secure Control for Unknown Cyber-Physical Systems Against Sparse Actuator Attacks. *Shen, X.*, +, *TSMC Sept. 2021 5708-5720*

Semantics

- Promotion of Answer Value Measurement With Domain Effects in Community Question Answering Systems. *Jin, B.*, +, *TSMC May 2021 3068-3079*

Semiconductor device manufacture

- Closing-Down Optimization for Single-Arm Cluster Tools Subject to Wafer Residency Time Constraints. *Qiao, Y.*, +, *TSMC Nov. 2021 6792-6807*
- Efficient Approach to Failure Response of Process Module in Dual-Arm Cluster Tools With Wafer Residency Time Constraints. *Qiao, Y.*, +, *TSMC March 2021 1612-1629*

Semiconductor industry

- Closing-Down Optimization for Single-Arm Cluster Tools Subject to Wafer Residency Time Constraints. *Qiao, Y.*, +, *TSMC Nov. 2021 6792-6807*
- Efficient Approach to Failure Response of Process Module in Dual-Arm Cluster Tools With Wafer Residency Time Constraints. *Qiao, Y.*, +, *TSMC March 2021 1612-1629*

Semiconductor technology

- Closing-Down Optimization for Single-Arm Cluster Tools Subject to Wafer Residency Time Constraints. *Qiao, Y.*, +, *TSMC Nov. 2021 6792-6807*
- Efficient Approach to Failure Response of Process Module in Dual-Arm Cluster Tools With Wafer Residency Time Constraints. *Qiao, Y.*, +, *TSMC March 2021 1612-1629*

Semisupervised learning

- AUC-Based Extreme Learning Machines for Supervised and Semi-Supervised Imbalanced Classification. *Wang, G.*, +, *TSMC Dec. 2021 7919-7930*

Sensor fusion

- A Transfer Classification Method for Heterogeneous Data Based on Evidence Theory. *Liu, Z.*, +, *TSMC Aug. 2021 5129-5141*
- Distributed Composite Optimization Over Relay-Assisted Networks. *Shi, C.*, +, *TSMC Oct. 2021 6587-6598*
- Distributed Covariance Intersection Fusion Estimation With Delayed Measurements and Unknown Inputs. *Yu, D.*, +, *TSMC Aug. 2021 5165-5173*
- Distributed Fusion Estimation for Multisensor Multirate Systems With Packet Dropout Compensations and Correlated Noises. *Tian, T.*, +, *TSMC Sept. 2021 5762-5772*
- Distributed Fusion Estimation for Unstable Systems With Quantized Innovations. *Xiang, B.*, +, *TSMC Oct. 2021 6381-6387*
- Distributed Kalman Filter for Multitarget Tracking Systems With Coupled Measurements. *Li, W.*, +, *TSMC Oct. 2021 6599-6604*
- Event-Based Distributed Adaptive Kalman Filtering With Unknown Covariance of Process Noises. *Mao, J.*, +, *TSMC Oct. 2021 6170-6182*
- Global and Local-Contrast Guides Content-Aware Fusion for RGB-D Saliency Prediction. *Zhou, W.*, +, *TSMC June 2021 3641-3649*

Sensor phenomena and characterization

- Sliding Mode Control of Interval Type-2 Fuzzy Systems Under Round-Robin Scheduling Protocol. *Zhang, Z.*, +, *TSMC Dec. 2021 7602-7612*

Sensors

- YSUY: Your Smartphone Understands You—Using Machine Learning to Address Fundamental Human Needs. *Akmandor, A.O.*, +, *TSMC Dec. 2021 7553-7568*

Sentiment analysis

- Memristive LSTM Network for Sentiment Analysis. *Wen, S.*, +, *TSMC March 2021 1794-1804*
- Word Representation Learning Based on Bidirectional GRUs With Drop Loss for Sentiment Classification. *Sun, X.*, +, *TSMC July 2021 4532-4542*

Sequential analysis

- Enhanced Branch-and-Bound Framework for a Class of Sequencing Problems. *Zhang, Z.*, +, *TSMC May 2021 2726-2736*

Service robots

- Fusing Skeleton Recognition With Face-TLD for Human Following of Mobile Service Robots. *Yuan, J.*, +, *TSMC May 2021 2963-2979*
- IWSCR: An Intelligent Water Surface Cleaner Robot for Collecting Floating Garbage. *Kong, S.*, +, *TSMC Oct. 2021 6358-6368*
- Multisensor-Based Navigation and Control of a Mobile Service Robot. *Yuan, W.*, +, *TSMC April 2021 2624-2634*

Service-oriented architecture

- Location-Aware Deep Collaborative Filtering for Service Recommendation. *Zhang, Y.*, +, *TSMC June 2021 3796-3807*

Servomechanisms

- A Finite-Time Control for a Pneumatic Cylinder Servo System Based on a Super-Twisting Extended State Observer. *Zhao, L.*, +, *TSMC Feb. 2021 1164-1173*

Servomotors

- Constraint-Based Control Design for Uncertain Underactuated Mechanical System: Leakage-Type Adaptation Mechanism. *Sun, H.*, +, *TSMC Dec. 2021 7663-7674*

Set theory

- Distributed Continuous-Time Optimization of Second-Order Multiagent Systems With Nonconvex Input Constraints. *Mo, L.*, +, *TSMC Oct. 2021 6404-6413*
- Distributed Resource Allocation Over Directed Graphs via Continuous-Time Algorithms. *Zhu, Y.*, +, *TSMC Feb. 2021 1097-1106*
- Random Sleep Scheme-Based Distributed Optimization Algorithm Over Unbalanced Time-Varying Networks. *Li, H.*, +, *TSMC Aug. 2021 5244-5253*
- Robust Stabilization of High-Order Nonlinear Systems With Unknown Sensitivities and Applications in Humanoid Robot Manipulation. *Sun, Z.*, +, *TSMC July 2021 4409-4416*
- The Set-Invariance Paradigm in Fuzzy Adaptive DSC Design of Large-Scale Nonlinear Input-Constrained Systems. *Lv, M.*, +, *TSMC Feb. 2021 1035-1045*

Ships

- Concurrent Processing Cluster Design to Empower Simultaneous Prediction for Hundreds of Vessels' Trajectories in Near Real-Time. *Xiao, Z.*, +, *TSMC March 2021 1830-1843*
- Fault-Tolerant Control for Dynamic Positioning Vessel With Thruster Faults Based on the Neural Modified Extended State Observer. *Yu, W.*, +, *TSMC Sept. 2021 5905-5917*
- Further Results on Fixed-Time Stabilization and Tracking Control of a Marine Surface Ship Subjected to Output Constraints. *Zhang, Z.*, +, *TSMC Sept. 2021 5300-5310*

Sign language recognition

- DeSIRE: Deep Signer-Invariant Representations for Sign Language Recognition. *Ferreira, P.M.*, +, *TSMC Sept. 2021 5830-5845*

Signal classification

- A Complex Network-Based Broad Learning System for Detecting Driver Fatigue From EEG Signals. *Yang, Y.*, +, *TSMC Sept. 2021 5800-5808*
- Classification of EEG Signals on VEP-Based BCI Systems With Broad Learning. *Gao, Z.*, +, *TSMC Nov. 2021 7143-7151*
- Deep Adversarial Domain Adaptation Model for Bearing Fault Diagnosis. *Liu, Z.*, +, *TSMC July 2021 4217-4226*

Ensemble Learning Based Brain–Computer Interface System for Ground Vehicle Control. *Zhuang, J.*, +, *TSMC Sept. 2021 5392-5404*

On the Utility of Power Spectral Techniques With Feature Selection Techniques for Effective Mental Task Classification in Noninvasive BCI. *Gupta, A.*, +, *TSMC May 2021 3080-3092*

Performance Evaluation of Joint Tracking and Classification. *Zhang, L.*, +, *TSMC Feb. 2021 1149-1163*

Signal processing

A Linear Time-Varying Model Predictive Control-Based Motion Cueing Algorithm for Hexapod Simulation-Based Motion Platform. *Qazani, M.R.C.*, +, *TSMC Oct. 2021 6096-6110*

Signal sampling

Distributed Fusion Estimation for Multisensor Multirate Systems With Packet Dropout Compensations and Correlated Noises. *Tian, T.*, +, *TSMC Sept. 2021 5762-5772*

Signal to noise ratio

Optimal SINR-Based DoS Attack Scheduling for Remote State Estimation via Adaptive Dynamic Programming Approach. *Liu, R.*, +, *TSMC Dec. 2021 7622-7632*

Simulated annealing

Two-Echelon Routing Problem for Parcel Delivery by Cooperated Truck and Drone. *Liu, Y.*, +, *TSMC Dec. 2021 7450-7465*

Simulation languages

A Declarative Approach for Transforming SysML Models to Executable Simulation Models. *Kapos, G.*, +, *TSMC June 2021 3330-3345*

Single machine scheduling

Group Scheduling With Nonperiodical Maintenance and Deteriorating Effects. *Xu, H.*, +, *TSMC May 2021 2860-2872*

Singularly perturbed systems

A Dynamic Event-Triggered Approach to H_∞ Control for Discrete-Time Singularly Perturbed Systems With Time-Delays and Sensor Saturations. *Ma, L.*, +, *TSMC Nov. 2021 6614-6625*

Extended Dissipativity-Based Control for Hidden Markov Jump Singularly Perturbed Systems Subject to General Probabilities. *Li, F.*, +, *TSMC Sept. 2021 5752-5761*

Hidden Markov Model Based Fault Detection for Networked Singularly Perturbed Systems. *Wan, X.*, +, *TSMC Oct. 2021 6445-6456*

Visual Servoing of a Flexible Aerial Refueling Boom With an Eye-in-Hand Camera. *Cui, L.*, +, *TSMC Oct. 2021 6282-6292*

Skin

Adaptive Pulsatile Plane for Robust Noncontact Heart Rate Monitoring. *Tran, Q.*, +, *TSMC Sept. 2021 5587-5599*

SLAM (robots)

A Novel Approach to Image-Sequence-Based Mobile Robot Place Recognition. *Yuan, J.*, +, *TSMC Sept. 2021 5377-5391*

Multisensor-Based Navigation and Control of a Mobile Service Robot. *Yuan, W.*, +, *TSMC April 2021 2624-2634*

Sliding mode control

A Hybrid Sliding Mode Control Scheme of Markovian Jump Systems via Transition Rates Optimal Design. *Cao, Z.*, +, *TSMC Dec. 2021 7752-7763*

Adaptive Neural Sliding Mode Control of Markov Jump Systems Subject to Malicious Attacks. *Lin, W.*, +, *TSMC Dec. 2021 7870-7881*

Adaptive Sliding Mode Control for Uncertain Active Suspension Systems With Prescribed Performance. *Liu, Y.*, +, *TSMC Oct. 2021 6414-6422*

Fractional-Order Finite-Time Super-Twisting Sliding Mode Control of Micro Gyroscope Based on Double-Loop Fuzzy Neural Network. *Fei, J.*, +, *TSMC Dec. 2021 7692-7706*

Global Finite Time Active Disturbance Rejection Control for Parallel Manipulators With Unknown Bounded Uncertainties. *Nguyen, V.*, +, *TSMC Dec. 2021 7838-7849*

Observer-Based Sliding Mode Control for Stabilization of Mismatched Disturbance Systems With or Without Time Delays. *Zhao, Y.*, +, *TSMC Dec. 2021 7337-7345*

Sliding Mode Control of Interval Type-2 Fuzzy Systems Under Round-Robin Scheduling Protocol. *Zhang, Z.*, +, *TSMC Dec. 2021 7602-7612*

Sliding-Mode Control for Slow-Sampling Singularly Perturbed Systems Subject to Markov Jump Parameters. *Wang, J.*, +, *TSMC Dec. 2021 7579-7586*

Small-world networks

Fractional-Order PID Controller Synthesis for Bifurcation of Fractional-Order Small-World Networks. *Xiao, M.*, +, *TSMC July 2021 4334-4346*

Smart cards

An Efficient Lightweight Authentication Scheme With Adaptive Resilience of Asynchronization Attacks for Wireless Sensor Networks. *Xiong, L.*, +, *TSMC Sept. 2021 5626-5638*

Smart phones

A Lightweight On-Device Detection Method for Android Malware. *Yuan, W.*, +, *TSMC Sept. 2021 5600-5611*

Smart power grids

A Finite-Time Distributed Optimization Algorithm for Economic Dispatch in Smart Grids. *Mao, S.*, +, *TSMC April 2021 2068-2079*

A Two-Stage Approach for Efficient Power Sharing Within Energy Districts. *Giordano, A.*, +, *TSMC March 2021 1679-1689*

Decentralized Consensus Decision-Making for Cybersecurity Protection in Multimicrogrid Systems. *Hu, B.*, +, *TSMC April 2021 2187-2198*

Optimal Switching Attacks and Countermeasures in Cyber-Physical Systems. *Wu, G.*, +, *TSMC Aug. 2021 4825-4835*

Smoothing methods

Forward–Backward Smoothers With Finite Impulse Response Structure. *Vicente, A.*, +, *TSMC Feb. 2021 765-774*

Social networking (online)

H_∞ Control for Observer-Based Non-Negative Scaled Edge-Consensus of Networked Systems. *Sun, Y.*, +, *TSMC Dec. 2021 7801-7812*

A Novel Fuzzy Logic-Based Text Classification Method for Tracking Rare Events on Twitter. *Lu, X.S.*, +, *TSMC July 2021 4324-4333*

An Efficient Hybrid Control Strategy for Restraining Rumor Spreading. *Ding, L.*, +, *TSMC Nov. 2021 6779-6791*

Collaborative Neural Social Recommendation. *Wu, L.*, +, *TSMC Jan. 2021 464-476*

Dynamic Community Evolution Analysis Framework for Large-Scale Complex Networks Based on Strong and Weak Events. *Qiao, S.*, +, *TSMC Oct. 2021 6229-6243*

Dynamic Control of Fraud Information Spreading in Mobile Social Networks. *Lin, Y.*, +, *TSMC June 2021 3725-3738*

Game Theoretic Suppression of Forged Messages in Online Social Networks. *Wang, X.*, +, *TSMC March 2021 1601-1611*

Group-Oriented Task Allocation for Crowdsourcing in Social Networks. *Jiang, J.*, +, *TSMC July 2021 4417-4432*

Social sciences

Managing Consensus With Minimum Adjustments in Group Decision Making With Opinions Evolution. *Chen, X.*, +, *TSMC April 2021 2299-2311*

Software architecture

A Declarative Approach for Transforming SysML Models to Executable Simulation Models. *Kapos, G.*, +, *TSMC June 2021 3330-3345*

Software fault tolerance

Proof of Previous Transactions (PoPT): An Efficient Approach to Consensus for JCLedger. *Xiang, F.*, +, *TSMC April 2021 2415-2424*

Space vehicles

Adaptive Fault-Tolerant Control for Attitude Tracking of Flexible Spacecraft With Limited Data Transmission. *Liu, Q.*, +, *TSMC July 2021 4400-4408*

Command Filtered Backstepping-Based Attitude Containment Control for Spacecraft Formation. *Zhao, L.*, +, *TSMC Feb. 2021 1278-1287*

Disturbance Observer-Based Adaptive Finite-Time Attitude Tracking Control for Rigid Spacecraft. *Zhang, J.*, +, *TSMC Nov. 2021 6606-6613*

Event-Based Formation Coordinated Control for Multiple Spacecraft Under Communication Constraints. *Hu, Q.*, +, *TSMC May 2021 3168-3179*

Hybrid Disturbance Observer-Based Anti-Disturbance Composite Control With Applications to Mars Landing Mission. *Xu, J.*, +, *TSMC May 2021 2885-2893*

Investigating the Flexibility of the MBSE Approach to the Biomass Mission. *Gregory, J.*, +, *TSMC Nov. 2021 6946-6961*

Trajectory Planning of Free-Floating Space Manipulators With Spacecraft Attitude Stabilization and Manipulability Optimization. *Lu, X.*, +, *TSMC Dec. 2021 7346-7362*

Sparse matrices

A Deep Latent Factor Model for High-Dimensional and Sparse Matrices in Recommender Systems. *Wu, D., +, TSMC July 2021 4285-4296*

Spatiotemporal phenomena

Dissimilarity Analysis-Based Multimode Modeling for Complex Distributed Parameter Systems. *Wang, Z., +, TSMC May 2021 2789-2797*

On the Identifiability of the Influence Model for Stochastic Spatiotemporal Spread Processes. *He, C., +, TSMC June 2021 3876-3888*

Special issues and sections

Special Issue on Recent Advances for Intelligence in Power and Energy Systems. *Kumar, R., +, TSMC April 2021 2036-2040*

Splines (mathematics)

Time-Optimal Point Stabilization Control for WIP Vehicles Using Quasi-Convex Optimization and B-Spline Adaptive Interpolation Techniques. *Ning, Y., +, TSMC May 2021 3293-3303*

Spraying

Complex Workpiece Positioning System With Nonrigid Registration Method for 6-DoFs Automatic Spray Painting Robot. *Gao, H., +, TSMC Dec. 2021 7305-7313*

Spread spectrum communication

Robust Global Coordination of Networked Systems With Input Saturation and External Disturbances. *Wang, X., +, TSMC Dec. 2021 7788-7800*

Springs

Adaptive Sliding Mode Control for Uncertain Active Suspension Systems With Prescribed Performance. *Liu, Y., +, TSMC Oct. 2021 6414-6422*

Springs (mechanical)

Distributed Control of Networked Nonlinear Systems via Interconnected Takagi–Sugeno Fuzzy Systems With Nonlinear Consequent. *Araujo, R.F., +, TSMC Aug. 2021 4858-4867*

Quality Inspection Based on Quadrangular Object Detection for Deep Aperature Component. *Zhang, J., +, TSMC Oct. 2021 5938-5948*

Stability

H_∞ Filtering for Nonhomogeneous Markovian Jump Repeated Scalar Nonlinear Systems With Multiplicative Noises and Partially Mode-Dependent Characterization. *Hua, M., +, TSMC May 2021 3180-3192*

A Disturbance Rejection Framework for Finite-Time and Fixed-Time Stabilization of Delayed Memristive Neural Networks. *Wang, L., +, TSMC Feb. 2021 905-915*

A Finite-Time Control for a Pneumatic Cylinder Servo System Based on a Super-Twisting Extended State Observer. *Zhao, L., +, TSMC Feb. 2021 1164-1173*

A Fuzzy Lyapunov Function Approach to Positive L_1 Observer Design for Positive Fuzzy Semi-Markovian Switching Systems With Its Application. *Qi, W., +, TSMC Feb. 2021 775-785*

A Generalized System Approach to Intermittent Nonfragile Control of Stochastic Neutral Time-Varying Delay Systems. *Ding, K., +, TSMC Nov. 2021 7017-7026*

A New Approach to Characterize Successive Packet Losses in Stochastic Networked Systems. *Hu, Z., +, TSMC Jan. 2021 552-560*

A Robust Hybrid of a Feedback Linearization Technique and an Interval Type-2 Fuzzy Control System for the Flapping Angle Dynamics of a Biomimetic Aircraft. *Santoso, F., +, TSMC Sept. 2021 5664-5673*

A Strictly Predefined-Time Convergent Neural Solution to Equality- and Inequality-Constrained Time-Variant Quadratic Programming. *Li, W., +, TSMC July 2021 4028-4039*

Adaptive Asymptotic Tracking for a Class of Uncertain Switched Positive Compartmental Models With Application to Anesthesia. *Lv, M., +, TSMC Aug. 2021 4936-4942*

Adaptive Command Filtered Neuro-Fuzzy Control Design for Fractional-Order Nonlinear Systems With Unknown Control Directions and Input Quantization. *Song, S., +, TSMC Nov. 2021 7238-7249*

Adaptive Event-Triggered and Double-Quantized Consensus of Leader–Follower Multiagent Systems With Semi-Markovian Jump Parameters. *Gong, C., +, TSMC Sept. 2021 5867-5879*

Adaptive Event-Triggered Fault Detection Scheme for Semi-Markovian Jump Systems With Output Quantization. *Zhang, L., +, TSMC April 2021 2370-2381*

Adaptive Finite-Time Tracking Control for Continuous Stirred Tank Reactor With Time-Varying Output Constraint. *Li, D., +, TSMC Sept. 2021 5929-5934*

Adaptive Fixed-Time Control of Error-Constrained Pure-Feedback Interconnected Nonlinear Systems. *Zhou, Q., +, TSMC Oct. 2021 6369-6380*

Adaptive Inverse Control of a Vibrating Coupled Vessel-Riser System With Input Backlash. *He, X., +, TSMC Aug. 2021 4706-4715*

Adaptive Neural Network Control Design for Uncertain Nonstrict Feedback Nonlinear System With State Constraints. *Ma, L., +, TSMC June 2021 3678-3686*

Adaptive Neural Network-Based Finite-Time Tracking Control for Nonstrict Nonaffined MIMO Nonlinear Systems. *Li, S., +, TSMC Aug. 2021 4814-4824*

Adaptive Neural Tracking Control Scheme of Switched Stochastic Nonlinear Pure-Feedback Nonlower Triangular Systems. *Niu, B., +, TSMC Feb. 2021 975-986*

Adaptive NN Cross Backstepping Control for Nonlinear Systems With Partial Time-Varying State Constraints and Its Applications to Hyper-Chaotic Systems. *Li, D., +, TSMC May 2021 2821-2832*

Adaptive Nonlinear Hierarchical Control for a Rotorcraft Transporting a Cable-Suspended Payload. *Liang, X., +, TSMC July 2021 4171-4182*

Adaptive Quantized Control of Output Feedback Nonlinear Systems With Input Unmodeled Dynamics Based on Backstepping and Small-Gain Method. *Xia, X., +, TSMC Sept. 2021 5686-5697*

Adaptive Tracking for Uncertain MIMO Nonlinear Systems With Time-Varying Parameters and Bounded Disturbance. *Zhang, Z., +, TSMC July 2021 4479-4491*

Adaptive Vehicle Stability Control of Half-Car Active Suspension Systems With Partial Performance Constraints. *Zeng, Q., +, TSMC March 2021 1704-1714*

An Input Delay Approach to Interval Type-2 Fuzzy Exponential Stabilization for Nonlinear Unreliable Networked Sampled-Data Control Systems. *Du, Z., +, TSMC June 2021 3488-3497*

Annular Domain Finite-Time Connective Control for Large-Scale Systems With Expanding Construction. *Liu, Y., +, TSMC Oct. 2021 6159-6169*

Asymmetric Bounded Neural Control for an Uncertain Robot by State Feedback and Output Feedback. *Kong, L., +, TSMC March 2021 1735-1746*

Asynchronous Finite-Time Filtering of Markov Jump Nonlinear Systems and Its Applications. *Ren, H., +, TSMC March 2021 1725-1734*

Asynchronous Stabilization of Boolean Control Networks With Stochastic Switched Signals. *Fang, M., +, TSMC April 2021 2425-2432*

Attitude Exponential Stabilization Control of Rigid Bodies via Disturbance Observer. *Xiao, B., +, TSMC May 2021 2751-2759*

Bank of High-Gain Observers in Output Feedback Control: Robustness Analysis Against Measurement Noise. *Esfandiari, K., +, TSMC April 2021 2476-2487*

Boundary Disturbance Observer-Based Control of a Vibrating Single-Link Flexible Manipulator. *Zhao, Z., +, TSMC April 2021 2382-2390*

Boundary Output Constrained Control for a Flexible Beam System With Prescribed Performance. *Zhao, Z., +, TSMC Aug. 2021 4650-4658*

Characteristic Model-Based Control Approach for Complex Network Systems. *Chen, L., +, TSMC June 2021 3599-3607*

Cluster Event-Triggered Tracking Cooperative and Formation Control for Multivehicle Systems: An Extended Magnification Region Condition. *Wang, B., TSMC May 2021 3229-3239*

Co-Design of Quantization and Event-Driven Control for Networked Control Systems. *Liu, X., +, TSMC May 2021 3103-3110*

Consensus of Multiagent Systems With Relative State Saturations. *Chu, H., +, TSMC April 2021 2391-2402*

Consensus of Multiagent Systems With Time-Varying Input Delay and Relative State Saturation Constraints. *Chu, H., +, TSMC Nov. 2021 6938-6944*

Consensus of Multiagent Systems With Time-Varying Input Delay via Truncated Predictor Feedback. *Chu, H., +, TSMC Oct. 2021 6062-6073*

Control of Discrete-Time Stochastic Systems With Packet Loss by Event-Triggered Approach. *Hu, Z., +, TSMC Feb. 2021 755-764*

Cooperative Event-Based Rigid Formation Control. *Sun, Z., +, TSMC July 2021 4308-4320*

- Cooperative Fault-Tolerant Output Regulation of Linear Heterogeneous Multiagent Systems Under Directed Network Topology. *Deng, C.*, *TSMC Aug. 2021 4773-4781*
- Cooperative Moving-Target Enclosing Control for Multiple Nonholonomic Vehicles Using Feedback Linearization Approach. *Peng, X.*, *TSMC Aug. 2021 4929-4935*
- Couple-Group Consensus for Cooperative-Competitive Heterogeneous Multiagent Systems: Hybrid Adaptive and Pinning Methods. *Ji, L.*, *TSMC Sept. 2021 5367-5376*
- Data-Driven Output-Feedback LQ Secure Control for Unknown Cyber-Physical Systems Against Sparse Actuator Attacks. *Shen, X.*, *TSMC Sept. 2021 5708-5720*
- Design of Interval Type-2 Fuzzy-Based Sampled-Data Controller for Nonlinear Systems Using Novel Fuzzy Lyapunov Functional and its Application to PMSM. *Shanmugam, L.*, *TSMC Jan. 2021 542-551*
- Design of Observer-Based Event-Triggered Fuzzy ISMC for T-S Fuzzy Model and its Application to PMSG. *Mani, P.*, *TSMC April 2021 2221-2231*
- Design of Output-Based Finite-Time Convergent Composite Controller for a Class of Perturbed Second-Order Nonlinear Systems. *Zhu, W.*, *TSMC Nov. 2021 6768-6778*
- Design of Sliding-Mode-Based Control for Nonlinear Systems With Mixed-Delays and Packet Losses Under Uncertain Missing Probability. *Hu, J.*, *TSMC May 2021 3217-3228*
- Dissipativity-Based Asynchronous Control for 2-D Markov Jump Systems in Continuous-Time Domain. *Shen, Y.*, *TSMC Sept. 2021 5349-5356*
- Distributed Containment Maneuvering of Uncertain Multiagent Systems in MIMO Strict-Feedback Form. *Zhang, Y.*, *TSMC Feb. 2021 1354-1364*
- Distributed Control of Networked Nonlinear Systems via Interconnected Takagi-Sugeno Fuzzy Systems With Nonlinear Consequent. *Araujo, R.F.*, *TSMC Aug. 2021 4858-4867*
- Distributed Lyapunov-Based Model Predictive Formation Tracking Control for Autonomous Underwater Vehicles Subject to Disturbances. *Wei, H.*, *TSMC Aug. 2021 5198-5208*
- Distributed Secure Platoon Control of Connected Vehicles Subject to DoS Attack: Theory and Application. *Zhang, D.*, *TSMC Nov. 2021 7269-7278*
- Distributed-Observer-Based Nash Equilibrium Seeking Algorithm for Quadratic Games With Nonlinear Dynamics. *Huang, B.*, *TSMC Nov. 2021 7260-7268*
- Echo State Network-Based Decentralized Control of Continuous-Time Nonlinear Large-Scale Interconnected Systems. *Zhang, H.*, *TSMC Oct. 2021 6293-6303*
- Event-Based Formation Coordinated Control for Multiple Spacecraft Under Communication Constraints. *Hu, Q.*, *TSMC May 2021 3168-3179*
- Event-Triggered Distributed H_∞ Constrained Control of Physically Interconnected Large-Scale Partially Unknown Strict-Feedback Systems. *Tan, L.N.*, *TSMC April 2021 2444-2456*
- Event-Triggered H_∞ Depth Control of Remotely Operated Underwater Vehicles. *Batmani, Y.*, *TSMC Feb. 2021 1224-1232*
- Event-Triggered Model-Free Adaptive Control. *Lin, N.*, *TSMC June 2021 3358-3369*
- Event-Triggered Robust Output Regulation of Uncertain Linear Systems With Unknown Exosystems. *Qian, Y.*, *TSMC July 2021 4139-4148*
- Event-Triggered Security Output Feedback Control for Networked Interconnected Systems Subject to Cyber-Attacks. *Gu, Z.*, *TSMC Oct. 2021 6197-6206*
- Exponential Stability of Markovian Jumping Systems via Adaptive Sliding Mode Control. *Xu, C.*, *TSMC Feb. 2021 954-964*
- Fault-Tolerant Control for Dynamic Positioning Vessel With Thruster Faults Based on the Neural Modified Extended State Observer. *Yu, W.*, *TSMC Sept. 2021 5905-5917*
- Finite-Time Bipartite Consensus For Multiagent Systems Under Detail-Balanced Antagonistic Interactions. *Lu, J.*, *TSMC June 2021 3867-3875*
- Finite-Time Stabilization of High-Order Stochastic Nonlinear Systems With Asymmetric Output Constraints. *Fang, L.*, *TSMC Nov. 2021 7201-7213*
- Force Sensorless Admittance Control for Teleoperation of Uncertain Robot Manipulator Using Neural Networks. *Yang, C.*, *TSMC May 2021 3282-3292*
- Further Results on Fixed-Time Stabilization and Tracking Control of a Marine Surface Ship Subjected to Output Constraints. *Zhang, Z.*, *TSMC Sept. 2021 5300-5310*
- Fuzzy Adaptive Fault-Tolerant Control of Fractional-Order Nonlinear Systems. *Li, Y.*, *TSMC March 2021 1372-1379*
- Fuzzy Adaptive Tracking Control for State Constraint Switched Stochastic Nonlinear Systems With Unstable Inverse Dynamics. *Wu, W.*, *TSMC Sept. 2021 5522-5534*
- Fuzzy Finite-Time Tracking Control for a Class of Nonaffine Nonlinear Systems With Unknown Dead Zones. *Bao, J.*, *TSMC Jan. 2021 452-463*
- Fuzzy Sampled-Data Control for DFIG-Based Wind Turbine With Stochastic Actuator Failures. *Sharmila, V.*, *TSMC April 2021 2199-2211*
- Fuzzy-Affine-Model-Based Output Feedback Dynamic Sliding Mode Controller Design of Nonlinear Systems. *Ji, W.*, *TSMC March 2021 1652-1661*
- Generalized Lead-Lag H_∞ Compensators for MIMO Linear Systems. *Liu, J.J.R.*, *TSMC Oct. 2021 6207-6217*
- Global Adaptive Control for Uncertain Nonlinear Systems With Sensor and Actuator Faults. *Ma, J.*, *TSMC Sept. 2021 5503-5510*
- Global Output Feedback Sampled-Data Stabilization of a Class of Switched Nonlinear Systems in the p-Normal Form. *Li, S.*, *TSMC Feb. 2021 1075-1084*
- Gradient Descent Algorithm-Based Adaptive NN Control Design for an Induction Motor. *Yang, X.*, *TSMC Feb. 2021 1027-1034*
- Hamiltonian-Driven Hybrid Adaptive Dynamic Programming. *Yang, Y.*, *TSMC Oct. 2021 6423-6434*
- Hidden Markov Model Based Fault Detection for Networked Singularly Perturbed Systems. *Wan, X.*, *TSMC Oct. 2021 6445-6456*
- HMM-Based Asynchronous Controller Design of Markovian Jumping Lur'e Systems Within a Finite-Time Interval. *Nie, R.*, *TSMC Nov. 2021 6885-6891*
- Hybrid Disturbance Observer-Based Anti-Disturbance Composite Control With Applications to Mars Landing Mission. *Xu, J.*, *TSMC May 2021 2885-2893*
- Improved Stability Criteria for Discrete-Time Switched T-S Fuzzy Systems. *Fei, Z.*, *TSMC Feb. 2021 712-720*
- Impulsive Stabilization of Nonlinear Time-Delay System With Input Saturation via Delay-Dependent Polytopic Approach. *Li, H.*, *TSMC Nov. 2021 7087-7098*
- Input-Output Finite-Time Estimation for Complex Networks With Switching Topology Under Dynamic Event-Triggered Transmission. *Sang, H.*, *TSMC Oct. 2021 6513-6522*
- Input-Output Finite-Time Reliable Static Output Control of Time-Varying System With Input Delay. *Chen, M.*, *TSMC Feb. 2021 1334-1344*
- Input-Output Finite-Time Sliding-Mode Control for T-S Fuzzy Systems With Application. *Qi, W.*, *TSMC Sept. 2021 5446-5455*
- Input-to-State Stability of Nonlinear Systems Using Observer-Based Event-Triggered Impulsive Control. *Li, X.*, *TSMC Nov. 2021 6892-6900*
- Integrated Synchronization and Anti-Disturbance Control Design for Fuzzy Model-Based Multiweighted Complex Network. *Kavirasan, B.*, *TSMC Oct. 2021 6330-6341*
- Intelligent Leader-Following Consensus Formation Control Using Recurrent Neural Networks for Small-Size Unmanned Helicopters. *Kuo, C.*, *TSMC Feb. 2021 1288-1301*
- IWSCR: An Intelligent Water Surface Cleaner Robot for Collecting Floating Garbage. *Kong, S.*, *TSMC Oct. 2021 6358-6368*
- Local Stabilization of Continuous-Time T-S Fuzzy Systems With Partly Measurable Premise Variables and Time-Varying Delay. *Wu, Y.*, *TSMC Jan. 2021 326-338*
- LPV Scheme for Robust Adaptive Output Feedback Consensus of Lipschitz Multiagents Using Lipschitz Nonlinear Protocol. *Rehman, A.U.*, *TSMC Nov. 2021 7040-7050*

- Lyapunov Control Method for Mismatched Uncertainty and Gain Variation Compensation in Switched Systems. *Aghababa, M.P., TSMC July 2021 4227-4237*
- Model-Based Adaptive Control of Transfemoral Prostheses: Theory, Simulation, and Experiments. *Azimi, V., +, TSMC Feb. 2021 1174-1191*
- Model-Based Periodic Event-Triggered Control Strategy to Stabilize a Scalar Nonlinear System. *Dou, R., +, TSMC Sept. 2021 5322-5335*
- Multiple ψ -Type Stability of Cohen–Grossberg Neural Networks With Unbounded Time-Varying Delays. *Zhang, F., +, TSMC Jan. 2021 521-531*
- Neural Integral Backstepping Hierarchical Sliding Mode Control for a Rideable Ballbot Under Uncertainties and Input Saturation. *Do, V., +, TSMC Nov. 2021 7214-7227*
- Neural Network-Based Adaptive Fault-Tolerant Control for Markovian Jump Systems With Nonlinearity and Actuator Faults. *Yang, H., +, TSMC June 2021 3687-3698*
- Neural Network-Based Sampled-Data Control for Switched Uncertain Nonlinear Systems. *Li, S., +, TSMC Sept. 2021 5437-5445*
- Neural-Based Decentralized Adaptive Finite-Time Control for Nonlinear Large-Scale Systems With Time-Varying Output Constraints. *Du, P., +, TSMC May 2021 3136-3147*
- Neuro-Fuzzy-Based Adaptive Dynamic Surface Control for Fractional-Order Nonlinear Strict-Feedback Systems With Input Constraint. *Song, S., +, TSMC June 2021 3575-3586*
- New Stability Conditions for Switched Linear Systems: A Reverse-Timer-Dependent Multiple Discontinuous Lyapunov Function Approach. *Li, Y., +, TSMC Oct. 2021 6564-6575*
- Nonfragile Sampled-Data Filtering of Uncertain Fuzzy Systems With Time-Varying Delays. *Luo, J., +, TSMC Aug. 2021 4993-5004*
- Optimal Control and Stabilization for Networked Systems With Input Delay and Markovian Packet Losses. *Li, H., +, TSMC July 2021 4453-4465*
- Output Tracking of Uncertain Nonminimum Phase Systems by Experience Replay. *Ye, L., +, TSMC May 2021 3159-3167*
- Output-Feedback Adaptive Control of Nonlinear Systems With Input–Output-Dependent Lower-Triangular Growth Rate: A Logic-Based Switching Approach. *Huang, C., +, TSMC Aug. 2021 4804-4813*
- Output-Feedback-Based Consensus Control Without Continuous Interagent Communication. *Shih, C., +, TSMC May 2021 3240-3250*
- Policy-Iteration-Based Learning for Nonlinear Player Game Systems With Constrained Inputs. *Mu, C., +, TSMC Oct. 2021 6488-6502*
- Quantized Static Output Feedback Fuzzy Tracking Control for Discrete-Time Nonlinear Networked Systems With Asynchronous Event-Triggered Constraints. *Li, Z., +, TSMC June 2021 3820-3831*
- Receding Horizon Synchronization of Delayed Neural Networks Using a Novel Inequality on Quadratic Polynomial Functions. *Lu, C., +, TSMC Oct. 2021 6085-6095*
- Reduced-Order Estimator-Based Efficient Fault-Tolerant Tracking Control Optimization for Constrained LPV Systems. *Han, K., +, TSMC Sept. 2021 5855-5866*
- Reset Control for Consensus of Multiagent Systems With Asynchronous Sampling. *Zhao, G., +, TSMC Aug. 2021 4911-4919*
- RISE-Based Integrated Motion Control of Autonomous Ground Vehicles With Asymptotic Prescribed Performance. *Hu, C., +, TSMC Sept. 2021 5336-5348*
- Robust Adaptive Control for State-Constrained Nonlinear Systems With Input Saturation and Unknown Control Direction. *Wu, Y., +, TSMC Feb. 2021 1192-1202*
- Robust Adaptive Neural Control of Nonminimum Phase Hypersonic Vehicle Model. *Xu, B., +, TSMC Feb. 2021 1107-1115*
- Robust Distributed Formation Controller Design for a Group of Unmanned Underwater Vehicles. *Liu, H., +, TSMC Feb. 2021 1215-1223*
- Robust Exact Predictive Scheme for Output-Feedback Control of Input-Delay Systems With Unmatched Sinusoidal Disturbances. *Shi, S., +, TSMC Sept. 2021 5357-5366*
- Robust Exponential Stability Analysis for Stochastic Systems With Actuator Faults Using Improved Weighted Relaxed Integral Inequality. *Gnanesan, N., +, TSMC June 2021 3346-3357*
- Robust Exponential Synchronization for Memristor Neural Networks With Nonidentical Characteristics by Pinning Control. *Li, Y., +, TSMC March 2021 1966-1980*
- Robust H_∞ Sliding Mode Controller Design of a Class of Time-Delayed Discrete Conic-Type Nonlinear Systems. *He, S., +, TSMC Feb. 2021 885-892*
- Robust LMI-Based H-Infinite Controller Integrating AFS and DYC of Autonomous Vehicles With Parametric Uncertainties. *Cheng, S., +, TSMC Nov. 2021 6901-6910*
- Robust Resilient Control Based on Multi-Approximator for the Uncertain Turbofan System With Unmeasured States and Disturbances. *Li, Y., +, TSMC Oct. 2021 6040-6049*
- Second-Order Sliding Mode Controller Design Subject to an Upper-Triangular Structure. *Mei, K., +, TSMC Jan. 2021 497-507*
- Security Control for T-S Fuzzy Systems With Adaptive Event-Triggered Mechanism and Multiple Cyber-Attacks. *Liu, J., +, TSMC Oct. 2021 6544-6554*
- Sliding Mode Control for a Class of Nonlinear Singular Systems With Partly Immeasurable Premise Variables. *Sun, X., +, TSMC April 2021 2433-2443*
- Sliding Mode Control for Markov Jump Systems With Delays via Asynchronous Approach. *Fang, M., +, TSMC May 2021 2916-2925*
- Sliding Mode Controller Design for Conic-Type Nonlinear Semi-Markovian Jumping Systems of Time-Delayed Chua's Circuit. *Nie, R., +, TSMC April 2021 2467-2475*
- Sliding-Mode Observer-Based Fault Reconstruction for T-S Fuzzy Descriptor Systems. *Li, R., +, TSMC Aug. 2021 5046-5055*
- Small-Gain Technique-Based Adaptive Neural Output-Feedback Fault-Tolerant Control of Switched Nonlinear Systems With Unmodeled Dynamics. *Ma, L., +, TSMC Nov. 2021 7051-7062*
- Stability Analysis for Input Saturated Discrete-Time Switched Systems With Average Dwell-Time. *Wang, Q., +, TSMC Jan. 2021 412-419*
- Stability Analysis of Complex Network Control System With Dynamical Topology and Delays. *Li, M., +, TSMC Nov. 2021 7228-7237*
- Stability and ℓ_1 -Gain Analysis for Switched Positive Systems With MDADT Based on Quasi-Time-Dependent Approach. *Li, X., +, TSMC Sept. 2021 5846-5854*
- Stability-Oriented Droop Coefficients Region Identification for Inverters Within Weak Grid: An Impedance-Based Approach. *Wang, R., +, TSMC April 2021 2258-2268*
- Stabilization and Finite-Time Stabilization of Probabilistic Boolean Control Networks. *Wang, L., +, TSMC March 2021 1559-1566*
- Stabilization of Networked Control Systems With Hybrid-Driven Mechanism and Probabilistic Cyber Attacks. *Liu, J., +, TSMC Feb. 2021 943-953*
- Stabilization of Stochastic Retarded Systems Based on Sampled-Data Feedback Control. *Yang, X., +, TSMC Sept. 2021 5895-5904*
- Stable Adaptive Controller Based on Generalized Regression Neural Networks and Sliding Mode Control for a Class of Nonlinear Time-Varying Systems. *Al-Mahasneh, A.J., +, TSMC April 2021 2525-2535*
- Stepsize Interval Confirmation of General Four-Step DTZN Algorithm Illustrated With Future Quadratic Programming and Tracking Control of Manipulators. *Guo, J., +, TSMC March 2021 1662-1670*
- Targeting Posture Control With Dynamic Obstacle Avoidance of Constrained Uncertain Wheeled Mobile Robots Including Unknown Skidding and Slipping. *Lu, Q., +, TSMC Nov. 2021 6650-6659*
- The Set-Invariance Paradigm in Fuzzy Adaptive DSC Design of Large-Scale Nonlinear Input-Constrained Systems. *Lv, M., +, TSMC Feb. 2021 1035-1045*
- Time-Optimal Point Stabilization Control for WIP Vehicles Using Quasi-Convex Optimization and B-Spline Adaptive Interpolation Techniques. *Ning, Y., +, TSMC May 2021 3293-3303*
- Time-Scale Redesign-Based Saturated Controller Synthesis for a Class of MIMO Nonlinear Systems. *Rayguru, M.M., +, TSMC Aug. 2021 4681-4692*
- Time-Varying Formation for General Linear Multiagent Systems Over Directed Topologies: A Fully Distributed Adaptive Technique. *Zhao, Y., +, TSMC Jan. 2021 532-541*

- Topological Structure, Reachability, and Stabilization of Constrained Boolean Control Networks via Event-Triggered Control. *Lin, L.*, +, *TSMC June 2021 3565-3574*
- Trajectory Tracking Control of Autonomous Underwater Vehicle With Unknown Parameters and External Disturbances. *Yang, X.*, +, *TSMC Feb. 2021 1054-1063*
- Twofold Sliding Controller Design for Uncertain Switched Nonlinear Systems. *Aghababa, M.P.*, *TSMC Feb. 2021 1203-1214*
- Unknown Dynamics Estimator-Based Output-Feedback Control for Nonlinear Pure-Feedback Systems. *Na, J.*, +, *TSMC June 2021 3832-3843*
- Visual Servoing of a Flexible Aerial Refueling Boom With an Eye-in-Hand Camera. *Cui, L.*, +, *TSMC Oct. 2021 6282-6292*
- Stability analysis**
- Adaptive Neural Sliding Mode Control of Markov Jump Systems Subject to Malicious Attacks. *Lin, W.*, +, *TSMC Dec. 2021 7870-7881*
- Adaptive Sliding Mode Control for Uncertain Active Suspension Systems With Prescribed Performance. *Liu, Y.*, +, *TSMC Oct. 2021 6414-6422*
- Dwell-Time-Based Exponential Stabilization of Switched Positive Systems With Actuator Saturation. *Ma, R.*, +, *TSMC Dec. 2021 7685-7691*
- Event-Triggered Model Predictive Control With a Statistical Learning. *Yoo, J.*, +, *TSMC April 2021 2571-2581*
- Networked Dual-Mode Adaptive Horizon MPC for Constrained Nonlinear Systems. *Li, P.*, +, *TSMC Dec. 2021 7435-7449*
- Observer-Based Sampled-Data Model-Free Adaptive Control for Continuous-Time Nonlinear Nonaffine Systems With Input Rate Constraints. *Hui, Y.*, +, *TSMC Dec. 2021 7813-7822*
- Output Feedback and Stability Analysis of Positive Polynomial Fuzzy Systems. *Meng, A.*, +, *TSMC Dec. 2021 7707-7718*
- Sliding-Mode Control for Slow-Sampling Singularly Perturbed Systems Subject to Markov Jump Parameters. *Wang, J.*, +, *TSMC Dec. 2021 7579-7586*
- Stability Analysis of Discrete-Time Polynomial Fuzzy-Model-Based Control Systems With Time Delay and Positivity Constraints Through Piecewise Taylor Series Membership Functions. *Li, X.*, +, *TSMC Dec. 2021 7517-7529*
- Stability criteria**
- \mathcal{L}_1 Control of Positive Semi-Markov Jump Systems With State Delay. *Zong, G.*, +, *TSMC Dec. 2021 7569-7578*
- A Hybrid Sliding Mode Control Scheme of Markovian Jump Systems via Transition Rates Optimal Design. *Cao, Z.*, +, *TSMC Dec. 2021 7752-7763*
- Composite Decision Makers in the Graph Model for Conflict Resolution: Hesitant Fuzzy Preference Modeling. *Wu, N.*, +, *TSMC Dec. 2021 7889-7902*
- Estimation for Fuzzy Semi-Markov Jump Systems With Indirectly Accessible Mode Information and Nonideal Data Transmission. *Cai, B.*, +, *TSMC July 2021 4016-4027*
- Exponential Stability of Delayed Generalized Neural Networks With Intermittent Large-Delay Periods. *Yang, B.*, +, *TSMC Dec. 2021 7392-7402*
- Fractional-Order PID Controller Synthesis for Bifurcation of Fractional-Order Small-World Networks. *Xiao, M.*, +, *TSMC July 2021 4334-4346*
- Improved Stability Criteria for Discrete-Time Switched T-S Fuzzy Systems. *Fei, Z.*, +, *TSMC Feb. 2021 712-720*
- Observed-Based Finite-Time Control of Nonlinear Semi-Markovian Jump Systems With Saturation Constraint. *Tian, Y.*, +, *TSMC Nov. 2021 6639-6649*
- Observer-Based Sliding Mode Control for Stabilization of Mismatched Disturbance Systems With or Without Time Delays. *Zhao, Y.*, +, *TSMC Dec. 2021 7337-7345*
- Stability Analysis of Systems With Time-Varying Delay via Improved Lyapunov-Krasovskii Functionals. *Long, F.*, +, *TSMC April 2021 2457-2466*
- Stability Criteria for Impulsive Stochastic Functional Differential Systems With Distributed-Delay Dependent Impulsive Effects. *Hu, W.*, +, *TSMC March 2021 2027-2032*
- State estimation**
- Adaptive Transition Probability Matrix-Based Parallel IMM Algorithm. *Xie, G.*, +, *TSMC May 2021 2980-2989*
- Distributed Covariance Intersection Fusion Estimation With Delayed Measurements and Unknown Inputs. *Yu, D.*, +, *TSMC Aug. 2021 5165-5173*
- Distributed Model-Based Event-Triggered Leader-Follower Consensus Control for Linear Continuous-Time Multiagent Systems. *Zhang, L.*, +, *TSMC Oct. 2021 6457-6465*
- Estimation for Fuzzy Semi-Markov Jump Systems With Indirectly Accessible Mode Information and Nonideal Data Transmission. *Cai, B.*, +, *TSMC July 2021 4016-4027*
- Estimation for Networked Random Sampling Systems With Packet Losses. *Lin, H.*, +, *TSMC Sept. 2021 5511-5521*
- Event-Based Distributed Adaptive Kalman Filtering With Unknown Covariance of Process Noises. *Mao, J.*, +, *TSMC Oct. 2021 6170-6182*
- Finite-Time State Estimation for Delayed Neural Networks With Redundant Delayed Channels. *Zhao, Z.*, +, *TSMC Jan. 2021 441-451*
- Forward-Backward Smoothers With Finite Impulse Response Structure. *Vicente, A.*, +, *TSMC Feb. 2021 765-774*
- Full Information Estimation for Time-Varying Systems Subject to Round-Robin Scheduling: A Recursive Filter Approach. *Zou, L.*, +, *TSMC March 2021 1904-1916*
- Impedance Control for Coordinated Robots by State and Output Feedback. *Dong, Y.*, +, *TSMC Aug. 2021 5056-5066*
- Moving Horizon Estimation of Networked Nonlinear Systems With Random Access Protocol. *Zou, L.*, +, *TSMC May 2021 2937-2948*
- Optimal SINR-Based DoS Attack Scheduling for Remote State Estimation via Adaptive Dynamic Programming Approach. *Liu, R.*, +, *TSMC Dec. 2021 7622-7632*
- Optimal Stealthy Innovation-Based Attacks With Historical Data in Cyber-Physical Systems. *Li, Y.*, +, *TSMC June 2021 3401-3411*
- Robust Resilient Control Based on Multi-Approximator for the Uncertain Turbofan System With Unmeasured States and Disturbances. *Li, Y.*, +, *TSMC Oct. 2021 6040-6049*
- State Estimation for Networked Systems With Markov Driven Transmission and Buffer Constraint. *Xu, Y.*, +, *TSMC Dec. 2021 7727-7734*
- State feedback**
- A Robust Hybrid of a Feedback Linearization Technique and an Interval Type-2 Fuzzy Control System for the Flapping Angle Dynamics of a Biomimetic Aircraft. *Santoso, F.*, +, *TSMC Sept. 2021 5664-5673*
- Adaptive Control of Full-State Constrained High-Order Nonlinear Systems With Time-Varying Powers. *Guo, C.*, +, *TSMC Aug. 2021 5189-5197*
- Adaptive Fuzzy Full-State and Output-Feedback Control for Uncertain Robots With Output Constraint. *Yu, X.*, +, *TSMC Nov. 2021 6994-7007*
- Adaptive Neural Tracking Control Scheme of Switched Stochastic Nonlinear Pure-Feedback Nonlower Triangular Systems. *Niu, B.*, +, *TSMC Feb. 2021 975-986*
- Adaptive Path Following Control of Unmanned Surface Vehicles Considering Environmental Disturbances and System Constraints. *Liu, Z.*, +, *TSMC Jan. 2021 339-353*
- Admissibilization for Implicit Jump Systems With Mixed Retarded Delays Based on Reciprocally Convex Integral Inequality and Barbalat's Lemma. *Zhuang, G.*, +, *TSMC Nov. 2021 6808-6818*
- Annular Domain Finite-Time Connective Control for Large-Scale Systems With Expanding Construction. *Liu, Y.*, +, *TSMC Oct. 2021 6159-6169*
- Asymmetric Bounded Neural Control for an Uncertain Robot by State Feedback and Output Feedback. *Kong, L.*, +, *TSMC March 2021 1735-1746*
- Asynchronous Stabilization of Boolean Control Networks With Stochastic Switched Signals. *Fang, M.*, +, *TSMC April 2021 2425-2432*
- Command Filter-Based Adaptive Prescribed Performance Tracking Control for Stochastic Uncertain Nonlinear Systems. *Sun, W.*, +, *TSMC Oct. 2021 6555-6563*
- Consensus of Multiagent Systems With Relative State Saturations. *Chu, H.*, +, *TSMC April 2021 2391-2402*
- Design of Output-Based Finite-Time Convergent Composite Controller for a Class of Perturbed Second-Order Nonlinear Systems. *Zhu, W.*, +, *TSMC Nov. 2021 6768-6778*
- Dissipativity-Based Two-Dimensional Control and Filtering for a Class of Switched Systems. *Yang, R.*, +, *TSMC May 2021 2737-2750*

- Distributed Algorithm Design for Resource Allocation Problems of Second-Order Multiagent Systems Over Weight-Balanced Digraphs. *Deng, Z., TSMC June 2021 3512-3521*
- Finite-Time Synchronization for Switched Neural Networks via Quantized Feedback Control. *Guan, C., +, TSMC May 2021 2873-2884*
- Funnel Control of Uncertain High-Order Nonlinear Systems With Unknown Rational Powers. *Liu, Y., +, TSMC Sept. 2021 5732-5741*
- Fuzzy Adaptive Tracking Control for State Constraint Switched Stochastic Nonlinear Systems With Unstable Inverse Dynamics. *Wu, W., +, TSMC Sept. 2021 5522-5534*
- Impulsive Stabilization of Nonlinear Time-Delay System With Input Saturation via Delay-Dependent Polytopic Approach. *Li, H., +, TSMC Nov. 2021 7087-7098*
- Optimal Switching Attacks and Countermeasures in Cyber-Physical Systems. *Wu, G., +, TSMC Aug. 2021 4825-4835*
- Output Homogenization and Synchronization of Heterogeneous Nonlinear Multiagent Networks. *Wei, Y., +, TSMC Dec. 2021 7295-7304*
- Output-Feedback-Based Consensus Control Without Continuous Interagent Communication. *Shih, C., +, TSMC May 2021 3240-3250*
- Sliding Mode Control for a Class of Nonlinear Singular Systems With Partly Immeasurable Premise Variables. *Sun, X., +, TSMC April 2021 2433-2443*
- Stability Analysis for Input Saturated Discrete-Time Switched Systems With Average Dwell-Time. *Wang, Q., +, TSMC Jan. 2021 412-419*
- Stabilization and Finite-Time Stabilization of Probabilistic Boolean Control Networks. *Wang, L., +, TSMC March 2021 1559-1566*
- Time-Optimal Point Stabilization Control for WIP Vehicles Using Quasi-Convex Optimization and B-Spline Adaptive Interpolation Techniques. *Ning, Y., +, TSMC May 2021 3293-3303*
- State-space methods**
- Dissipativity-Based Two-Dimensional Control and Filtering for a Class of Switched Systems. *Yang, R., +, TSMC May 2021 2737-2750*
- Estimation for Networked Random Sampling Systems With Packet Losses. *Lin, H., +, TSMC Sept. 2021 5511-5521*
- Event-Triggered Control for Output Regulation of Probabilistic Logical Systems With Delays. *He, J., +, TSMC Nov. 2021 6842-6851*
- Forward-Backward Smoothers With Finite Impulse Response Structure. *Vicente, A., +, TSMC Feb. 2021 765-774*
- Time-Optimal Point Stabilization Control for WIP Vehicles Using Quasi-Convex Optimization and B-Spline Adaptive Interpolation Techniques. *Ning, Y., +, TSMC May 2021 3293-3303*
- Two-Dimensional Iterative Learning Model Predictive Control for Batch Processes: A New State Space Model Compensation Approach. *Zhang, R., +, TSMC Feb. 2021 833-841*
- Statistical analysis**
- Classification of EEG Signals on VEP-Based BCI Systems With Broad Learning. *Gao, Z., +, TSMC Nov. 2021 7143-7151*
- Group Scheduling With Nonperiodical Maintenance and Deteriorating Effects. *Xu, H., +, TSMC May 2021 2860-2872*
- Statistical distributions**
- Asynchronous Fault Detection and Isolation for Markov Jump Systems With Actuator Failures Under Networked Environment. *Long, Y., +, TSMC June 2021 3477-3487*
- Performance Evaluation of Joint Tracking and Classification. *Zhang, L., +, TSMC Feb. 2021 1149-1163*
- Robust Multimodel Identification of LPV Systems With Missing Observations Based on t-Distribution. *Liu, X., +, TSMC Aug. 2021 5254-5260*
- Statistical learning**
- Event-Triggered Model Predictive Control With a Statistical Learning. *Yoo, J., +, TSMC April 2021 2571-2581*
- Statistical process control**
- A Sparse Dimensionality Reduction Approach Based on False Nearest Neighbors for Nonlinear Fault Detection. *Yi, J., +, TSMC Aug. 2021 4980-4992*
- Steady-state**
- Detection of Data Integrity Attacks in Distributed State Estimation. *Xia, Y., +, TSMC Dec. 2021 7735-7744*
- Integrated Scheduling of a Dual-Armed Cluster Tool for Maximizing Steady Schedule Patterns. *Kim, W., +, TSMC Dec. 2021 7282-7294*
- Steering systems**
- RISE-Based Integrated Motion Control of Autonomous Ground Vehicles With Asymptotic Prescribed Performance. *Hu, C., +, TSMC Sept. 2021 5336-5348*
- Robust LMI-Based H-Infinite Controller Integrating AFS and DYC of Autonomous Vehicles With Parametric Uncertainties. *Cheng, S., +, TSMC Nov. 2021 6901-6910*
- Robust Vehicle Driver Assistance Control for Handover Scenarios Considering Driving Performances. *Chen, Y., +, TSMC July 2021 4160-4170*
- Stereo image processing**
- An Efficient Method to Recover Relative Pose for Vehicle-Mounted Cameras Under Planar Motion. *Zhang, X., +, TSMC Feb. 2021 1138-1148*
- Stochastic processes**
- \mathcal{L}_1 Control of Positive Semi-Markov Jump Systems With State Delay. *Zong, G., +, TSMC Dec. 2021 7569-7578*
- A Heuristic Procedure for Selecting the Best Feasible Design in the Presence of Stochastic Constraints. *Choi, S.H., +, TSMC Feb. 2021 1016-1026*
- A Nesterov-Like Gradient Tracking Algorithm for Distributed Optimization Over Directed Networks. *Lu, Q., +, TSMC Oct. 2021 6258-6270*
- A New Approach to Characterize Successive Packet Losses in Stochastic Networked Systems. *Hu, Z., +, TSMC Jan. 2021 552-560*
- A Novel Synchronization Protocol for Nonlinear Stochastic Dynamical Networked Systems. *Gu, H., +, TSMC May 2021 2676-2686*
- Adaptive Event-Triggered Fault Detection Scheme for Semi-Markovian Jump Systems With Output Quantization. *Zhang, L., +, TSMC April 2021 2370-2381*
- Control of Discrete-Time Stochastic Systems With Packet Loss by Event-Triggered Approach. *Hu, Z., +, TSMC Feb. 2021 755-764*
- Data-Driven Pareto-DE-Based Intelligent Optimal Operational Control for Stochastic Processes. *Yin, L., +, TSMC July 2021 4443-4452*
- Event-Based Distributed Adaptive Kalman Filtering With Unknown Covariance of Process Noises. *Mao, J., +, TSMC Oct. 2021 6170-6182*
- Finite-Time Stabilization of High-Order Stochastic Nonlinear Systems With Asymmetric Output Constraints. *Fang, L., +, TSMC Nov. 2021 7201-7213*
- Finite-Time State Estimation for Delayed Neural Networks With Redundant Delayed Channels. *Zhao, Z., +, TSMC Jan. 2021 441-451*
- H_∞ Control of Singular System Based on Stochastic Cyber-Attacks and Dynamic Event-Triggered Mechanism. *Zhang, Q., +, TSMC Dec. 2021 7510-7516*
- Large-Scale Twin Parametric Support Vector Machine Using Pinball Loss Function. *Sharma, S., +, TSMC Feb. 2021 987-1003*
- Latent Factor-Based Recommenders Relying on Extended Stochastic Gradient Descent Algorithms. *Luo, X., +, TSMC Feb. 2021 916-926*
- MOEA/D-Based Probabilistic PBI Approach for Risk-Based Optimal Operation of Hybrid Energy System With Intermittent Power Uncertainty. *Zhang, H., +, TSMC April 2021 2080-2090*
- On the Identifiability of the Influence Model for Stochastic Spatiotemporal Spread Processes. *He, C., +, TSMC June 2021 3876-3888*
- Optimal Control and Stabilization for Networked Systems With Input Delay and Markovian Packet Losses. *Li, H., +, TSMC July 2021 4453-4465*
- Quantized Control of Networked Control Systems Under Stochastic Clock Offsets. *Sun, H., +, TSMC May 2021 3004-3013*
- Quasi-Consensus Control for a Class of Time-Varying Stochastic Nonlinear Time-Delay Multiagent Systems Subject to Deception Attacks. *Liu, L., +, TSMC Nov. 2021 6863-6873*
- Random Sleep Scheme-Based Distributed Optimization Algorithm Over Unbalanced Time-Varying Networks. *Li, H., +, TSMC Aug. 2021 5244-5253*
- Stability Criteria for Impulsive Stochastic Functional Differential Systems With Distributed-Delay Dependent Impulsive Effects. *Hu, W., +, TSMC March 2021 2027-2032*
- Stabilization of Stochastic Retarded Systems Based on Sampled-Data Feedback Control. *Yang, X., +, TSMC Sept. 2021 5895-5904*
- Stochastic programming**
- A Binary Particle Swarm Optimizer With Priority Planning and Hierarchical Learning for Networked Epidemic Control. *Zhao, T., +, TSMC Aug. 2021 5090-5104*

Stochastic systems

H_∞ Filtering for Nonhomogeneous Markovian Jump Repeated Scalar Nonlinear Systems With Multiplicative Noises and Partially Mode-Dependent Characterization. Hua, M., +, *TSMC May 2021* 3180-3192

A Generalized System Approach to Intermittent Nonfragile Control of Stochastic Neutral Time-Varying Delay Systems. Ding, K., +, *TSMC Nov. 2021* 7017-7026

A New Approach to Characterize Successive Packet Losses in Stochastic Networked Systems. Hu, Z., +, *TSMC Jan. 2021* 552-560

A Novel Synchronization Protocol for Nonlinear Stochastic Dynamical Networked Systems. Gu, H., +, *TSMC May 2021* 2676-2686

A Prediction-Based Approach to Distributed Filtering With Missing Measurements and Communication Delays Through Sensor Networks. Hu, J., +, *TSMC Nov. 2021* 7063-7074

Adaptive Event-Triggered Fault Detection Scheme for Semi-Markovian Jump Systems With Output Quantization. Zhang, L., +, *TSMC April 2021* 2370-2381

Adaptive Neural Sliding Mode Control for Singular Semi-Markovian Jump Systems Against Actuator Attacks. Cao, Z., +, *TSMC March 2021* 1523-1533

Adaptive Neural Tracking Control Scheme of Switched Stochastic Nonlinear Pure-Feedback Nonlower Triangular Systems. Niu, B., +, *TSMC Feb. 2021* 975-986

Almost Sure Stability of Markov Jump Systems With Persistent Dwell Time Switching. Li, S., +, *TSMC Nov. 2021* 6681-6690

Asynchronous Fault Detection and Isolation for Markov Jump Systems With Actuator Failures Under Networked Environment. Long, Y., +, *TSMC June 2021* 3477-3487

Asynchronous Finite-Time Filtering of Markov Jump Nonlinear Systems and Its Applications. Ren, H., +, *TSMC March 2021* 1725-1734

Asynchronous Stabilization of Boolean Control Networks With Stochastic Switched Signals. Fang, M., +, *TSMC April 2021* 2425-2432

Command Filter-Based Adaptive Prescribed Performance Tracking Control for Stochastic Uncertain Nonlinear Systems. Sun, W., +, *TSMC Oct. 2021* 6555-6563

Containment Control of Semi-Markovian Multiagent Systems With Switching Topologies. Liang, H., +, *TSMC June 2021* 3889-3899

Control of Discrete-Time Stochastic Systems With Packet Loss by Event-Triggered Approach. Hu, Z., +, *TSMC Feb. 2021* 755-764

Design of Sliding-Mode-Based Control for Nonlinear Systems With Mixed-Delays and Packet Losses Under Uncertain Missing Probability. Hu, J., +, *TSMC May 2021* 3217-3228

Dissipativity-Based Asynchronous Control for 2-D Markov Jump Systems in Continuous-Time Domain. Shen, Y., +, *TSMC Sept. 2021* 5349-5356

Distributed Fusion Estimation for Multisensor Multirate Systems With Packet Dropout Compensations and Correlated Noises. Tian, T., +, *TSMC Sept. 2021* 5762-5772

Estimation for Fuzzy Semi-Markov Jump Systems With Indirectly Accessible Mode Information and Nonideal Data Transmission. Cai, B., +, *TSMC July 2021* 4016-4027

Estimation for Networked Random Sampling Systems With Packet Losses. Lin, H., +, *TSMC Sept. 2021* 5511-5521

Event-Based Distributed Adaptive Kalman Filtering With Unknown Covariance of Process Noises. Mao, J., +, *TSMC Oct. 2021* 6170-6182

Event-Triggered Sliding Mode Control of Switched Neural Networks With Mode-Dependent Average Dwell Time. Yan, H., +, *TSMC Feb. 2021* 1233-1243

Exponential Stability of Markovian Jumping Systems via Adaptive Sliding Mode Control. Xu, C., +, *TSMC Feb. 2021* 954-964

Extended Dissipativity-Based Control for Hidden Markov Jump Singularly Perturbed Systems Subject to General Probabilities. Li, F., +, *TSMC Sept. 2021* 5752-5761

Finite-Time Dissipative Synchronization for Markovian Jump Generalized Inertial Neural Networks With Reaction-Diffusion Terms. Song, X., +, *TSMC June 2021* 3650-3661

Finite-Time Stabilization of High-Order Stochastic Nonlinear Systems With Asymmetric Output Constraints. Fang, L., +, *TSMC Nov. 2021* 7201-7213

Finite-Time State Estimation for Delayed Neural Networks With Redundant Delayed Channels. Zhao, Z., +, *TSMC Jan. 2021* 441-451

Fuzzy Adaptive Tracking Control for State Constraint Switched Stochastic Nonlinear Systems With Unstable Inverse Dynamics. Wu, W., +, *TSMC Sept. 2021* 5522-5534

HMM-Based Asynchronous Controller Design of Markovian Jumping Lur'e Systems Within a Finite-Time Interval. Nie, R., +, *TSMC Nov. 2021* 6885-6891

Input-Output Finite-Time Estimation for Complex Networks With Switching Topology Under Dynamic Event-Triggered Transmission. Sang, H., +, *TSMC Oct. 2021* 6513-6522

Moving Horizon Estimation of Networked Nonlinear Systems With Random Access Protocol. Zou, L., +, *TSMC May 2021* 2937-2948

Nonfragile Observer-Based Control for Markovian Jump Systems Subject to Asynchronous Modes. Tao, J., +, *TSMC June 2021* 3533-3540

Observed-Based Finite-Time Control of Nonlinear Semi-Markovian Jump Systems With Saturation Constraint. Tian, Y., +, *TSMC Nov. 2021* 6639-6649

On the Identifiability of the Influence Model for Stochastic Spatiotemporal Spread Processes. He, C., +, *TSMC June 2021* 3876-3888

Optimal Control and Stabilization for Networked Systems With Input Delay and Markovian Packet Losses. Li, H., +, *TSMC July 2021* 4453-4465

Optimal Control on Finite-Time Consensus of the Leader-Following Stochastic Multiagent System With Heuristic Method. Xu, S., +, *TSMC June 2021* 3617-3628

Quantized Control of Networked Control Systems Under Stochastic Clock Offsets. Sun, H., +, *TSMC May 2021* 3004-3013

Quasi-Consensus Control for a Class of Time-Varying Stochastic Nonlinear Time-Delay Multiagent Systems Subject to Deception Attacks. Liu, L., +, *TSMC Nov. 2021* 6863-6873

Robust Exponential Stability Analysis for Stochastic Systems With Actuator Faults Using Improved Weighted Relaxed Integral Inequality. Gnanesan, N., +, *TSMC June 2021* 3346-3357

Security Control for T-S Fuzzy Systems With Adaptive Event-Triggered Mechanism and Multiple Cyber-Attacks. Liu, J., +, *TSMC Oct. 2021* 6544-6554

Sliding Mode Control for Markov Jump Systems With Delays via Asynchronous Approach. Fang, M., +, *TSMC May 2021* 2916-2925

Sliding Mode Controller Design for Conic-Type Nonlinear Semi-Markovian Jumping Systems of Time-Delayed Chua's Circuit. Nie, R., +, *TSMC April 2021* 2467-2475

Sliding-Mode Control for Fuzzy Stochastic Systems With Different Local-Input Matrices. Wang, Y.Y., +, *TSMC Aug. 2021* 4761-4772

Soft-Bound Interval Control System and Its Robust Fault-Tolerant Controller Design. Zhou, J., +, *TSMC Jan. 2021* 378-390

Stability Criteria for Impulsive Stochastic Functional Differential Systems With Distributed-Delay Dependent Impulsive Effects. Hu, W., +, *TSMC March 2021* 2027-2032

Stabilization of Stochastic Retarded Systems Based on Sampled-Data Feedback Control. Yang, X., +, *TSMC Sept. 2021* 5895-5904

Synchronization on Lur'e Cluster Networks With Proportional Delay: Impulsive Effects Method. Tang, Z., +, *TSMC July 2021* 4555-4565

Takagi-Sugeno Model-Based Reliable Sliding Mode Control of Descriptor Systems With Semi-Markov Parameters: Average Dwell Time Approach. Jiang, B., +, *TSMC March 2021* 1549-1558

Suboptimal control

Suboptimal Control and Targeted Constant Control for Semi-Random Epidemic Networks. Li, K., +, *TSMC April 2021* 2602-2610

Supercapacitors

Toward Optimal Risk-Averse Configuration for HESS With CGANs-Based PV Scenario Generation. Yang, X., +, *TSMC March 2021* 1779-1793

Supervised learning

A Fast Semi-Supervised Clustering Framework for Large-Scale Time Series Data. He, G., +, *TSMC July 2021* 4201-4216

Supply chain management

Managing Online Channel and Optimization in Supply Chain Systems With Different Channel Leaderships. Xu, L., +, *TSMC Nov. 2021* 7177-7190

Mobile-App-Online-Website Dual Channel Strategies: Privacy Concerns, E-Payment Convenience, Channel Relationship, and Coordination. *Choi, T., TSMC Nov. 2021 7008-7016*

Supply chains

Managing Online Channel and Optimization in Supply Chain Systems With Different Channel Leaderships. *Xu, L., +, TSMC Nov. 2021 7177-7190*

Mobile-App-Online-Website Dual Channel Strategies: Privacy Concerns, E-Payment Convenience, Channel Relationship, and Coordination. *Choi, T., TSMC Nov. 2021 7008-7016*

Support vector machines

A Doubly Sparse Multiclass Support Vector Machine With Simultaneous Feature and Sample Screening. *Pang, X., +, TSMC Nov. 2021 6911-6925*

A Lightweight On-Device Detection Method for Android Malware. *Yuan, W., +, TSMC Sept. 2021 5600-5611*

A Novel Multicamera System for High-Speed Touchless Palm Recognition. *Liang, X., +, TSMC March 2021 1534-1548*

AUC-Based Extreme Learning Machines for Supervised and Semi-Supervised Imbalanced Classification. *Wang, G., +, TSMC Dec. 2021 7919-7930*

Emotion Classification Using EEG Brain Signals and the Broad Learning System. *Issa, S., +, TSMC Dec. 2021 7382-7391*

Equipment Health Assessment Based on Improved Incremental Support Vector Data Description. *Zhang, L., +, TSMC May 2021 3205-3216*

Formulating Ensemble Learning of SVMs Into a Single SVM Formulation by Negative Agreement Learning. *Zhou, J., +, TSMC Oct. 2021 6015-6028*

Fusing Skeleton Recognition With Face-TLD for Human Following of Mobile Service Robots. *Yuan, J., +, TSMC May 2021 2963-2979*

Generalized Variant Support Vector Machine. *Mohammadi, M., +, TSMC May 2021 2798-2809*

Large-Scale Twin Parametric Support Vector Machine Using Pinball Loss Function. *Sharma, S., +, TSMC Feb. 2021 987-1003*

Parity Space Vector Machine Approach to Robust Fault Detection for Linear Discrete-Time Systems. *Zhong, M., +, TSMC July 2021 4251-4261*

Skill Learning From Human Demonstrations Using Dynamical Regressive Models for Multitask Applications. *Dutta, S., +, TSMC Jan. 2021 659-672*

Surface cleaning

IWSCR: An Intelligent Water Surface Cleaner Robot for Collecting Floating Garbage. *Kong, S., +, TSMC Oct. 2021 6358-6368*

Surface treatment

Sliding-Mode Control for Slow-Sampling Singularly Perturbed Systems Subject to Markov Jump Parameters. *Wang, J., +, TSMC Dec. 2021 7579-7586*

Surgery

Bleeding Simulation With Improved Visual Effects for Surgical Simulation Systems. *Shi, W., +, TSMC Feb. 2021 686-695*

Surveillance

Two-Echelon Routing Problem for Parcel Delivery by Cooperated Truck and Drone. *Liu, Y., +, TSMC Dec. 2021 7450-7465*

Suspensions (mechanical components)

Adaptive Vehicle Stability Control of Half-Car Active Suspension Systems With Partial Performance Constraints. *Zeng, Q., +, TSMC March 2021 1704-1714*

Extended Dissipativity-Based Control for Hidden Markov Jump Singularly Perturbed Systems Subject to General Probabilities. *Li, F., +, TSMC Sept. 2021 5752-5761*

Reliable Control for Vehicle Active Suspension Systems Under Event-Triggered Scheme With Frequency Range Limitation. *Fei, Z., +, TSMC March 2021 1630-1641*

Suspensions (mechanical systems)

Active Fault-Tolerant Control for Discrete Vehicle Active Suspension Via Reduced-Order Observer. *Han, S., +, TSMC Nov. 2021 6701-6711*

Adaptive Sliding Mode Control for Uncertain Active Suspension Systems With Prescribed Performance. *Liu, Y., +, TSMC Oct. 2021 6414-6422*

Switched systems

Dwell-Time-Based Exponential Stabilization of Switched Positive Systems With Actuator Saturation. *Ma, R., +, TSMC Dec. 2021 7685-7691*

Event-Triggered Optimal Control for Discrete-Time Switched Nonlinear Systems With Constrained Control Input. *Han, X., +, TSMC Dec. 2021 7850-7859*

Event-Triggered Output Regulation for Networked Flight Control System Based on an Asynchronous Switched System Approach. *Li, L., +, TSMC Dec. 2021 7675-7684*

Switches

A Switching Method to Event-Triggered Output Feedback Control for Unmanned Aerial Vehicles Over Cognitive Radio Networks. *Wu, Z., +, TSMC Dec. 2021 7530-7541*

Dwell-Time-Based Exponential Stabilization of Switched Positive Systems With Actuator Saturation. *Ma, R., +, TSMC Dec. 2021 7685-7691*

Event-Triggered Iterative Learning Containment Control of Model-Free Multiagent Systems. *Hua, C., +, TSMC Dec. 2021 7719-7726*

Exponential Stability of Delayed Generalized Neural Networks With Intermittent Large-Delay Periods. *Yang, B., +, TSMC Dec. 2021 7392-7402*

Multiagent System-Based Integrated Design of Security Control and Economic Dispatch for Interconnected Microgrid Systems. *Zhang, Z., +, TSMC April 2021 2101-2112*

NN-Based Adaptive Tracking Control of Discrete-Time Nonlinear Systems With Actuator Saturation and Event-Triggering Protocol. *Wang, M., +, TSMC Dec. 2021 7613-7621*

Robust Containment Control of Uncertain Multi-Agent Systems With Time-Delay and Heterogeneous Lipschitz Nonlinearity. *Parsa, M., +, TSMC April 2021 2312-2321*

Switching systems (control)

A Generalized System Approach to Intermittent Nonfragile Control of Stochastic Neutral Time-Varying Delay Systems. *Ding, K., +, TSMC Nov. 2021 7017-7026*

Almost Sure Stability of Markov Jump Systems With Persistent Dwell Time Switching. *Li, S., +, TSMC Nov. 2021 6681-6690*

Consensus of Multiagent Systems With Relative State Saturations. *Chu, H., +, TSMC April 2021 2391-2402*

Consensus of One-Sided Lipschitz Multiagents Under Switching Topologies. *Razaq, M.A., +, TSMC March 2021 1485-1495*

Control Design for Uncertain Switched Nonlinear Systems: Adaptive Neural Approach. *Liu, Z., +, TSMC April 2021 2322-2331*

Dissipativity-Based Two-Dimensional Control and Filtering for a Class of Switched Systems. *Yang, R., +, TSMC May 2021 2737-2750*

Distributed Secure Platoon Control of Connected Vehicles Subject to DoS Attack: Theory and Application. *Zhang, D., +, TSMC Nov. 2021 7269-7278*

Fuzzy Adaptive Tracking Control for State Constraint Switched Stochastic Nonlinear Systems With Unstable Inverse Dynamics. *Wu, W., +, TSMC Sept. 2021 5522-5534*

Fuzzy Sampled-Data Control for DFIG-Based Wind Turbine With Stochastic Actuator Failures. *Sharmila, V., +, TSMC April 2021 2199-2211*

Output-Feedback-Based Consensus Control Without Continuous Interagent Communication. *Shih, C., +, TSMC May 2021 3240-3250*

Small-Gain Technique-Based Adaptive Neural Output-Feedback Fault-Tolerant Control of Switched Nonlinear Systems With Unmodeled Dynamics. *Ma, L., +, TSMC Nov. 2021 7051-7062*

Symmetric matrices

ADP-Based Robust Resilient Control of Partially Unknown Nonlinear Systems via Cooperative Interaction Design. *Huang, X., +, TSMC Dec. 2021 7466-7474*

Asynchronous Output Feedback Control for a Class of Conic-Type Nonlinear Hidden Markov Jump Systems Within a Finite-Time Interval. *Cheng, P., +, TSMC Dec. 2021 7644-7651*

Fault Detection for Lipschitz Nonlinear Systems With Restricted Frequency-Domain Specifications. *Li, J., +, TSMC Dec. 2021 7486-7496*

H_∞ Control of Singular System Based on Stochastic Cyber-Attacks and Dynamic Event-Triggered Mechanism. *Zhang, Q., +, TSMC Dec. 2021 7510-7516*

Observer-Based Sliding Mode Control for Stabilization of Mismatched Disturbance Systems With or Without Time Delays. *Zhao, Y., +, TSMC Dec. 2021 7337-7345*

Robust Global Coordination of Networked Systems With Input Saturation and External Disturbances. *Wang, X., +, TSMC Dec. 2021 7788-7800*

Sliding-Mode Control for Slow-Sampling Singularly Perturbed Systems Subject to Markov Jump Parameters. *Wang, J.*, +, *TSMC Dec. 2021 7579-7586*

Synchronization

A Decomposition Approach for Synchronization of Heterogeneous Complex Networks. *Wang, L.*, +, *TSMC Feb. 2021 853-863*

A Novel Synchronization Protocol for Nonlinear Stochastic Dynamical Networked Systems. *Gu, H.*, +, *TSMC May 2021 2676-2686*

Adaptively Synchronize the Derivative Coupled Complex Networks With Proportional Delay. *Tang, Z.*, +, *TSMC Aug. 2021 4969-4979*

An Improved Impulsive Control Approach for Cluster Synchronization of Complex Networks With Parameter Mismatches. *Wang, X.*, +, *TSMC April 2021 2561-2570*

An Improved Result on Sampled-Data Synchronization of Markov Jump Delayed Neural Networks. *Shen, H.*, +, *TSMC June 2021 3608-3616*

Asymptotic Stability and Synchronization of Fractional-Order Neural Networks With Unbounded Time-Varying Delays. *Zhang, F.*, +, *TSMC Sept. 2021 5547-5556*

Coordination and Control of Complex Network Systems With Switching Topologies: A Survey. *Wen, G.*, +, *TSMC Oct. 2021 6342-6357*

Finite-Time Dissipative Synchronization for Markovian Jump Generalized Inertial Neural Networks With Reaction-Diffusion Terms. *Song, X.*, +, *TSMC June 2021 3650-3661*

Finite-Time Synchronization for Switched Neural Networks via Quantized Feedback Control. *Guan, C.*, +, *TSMC May 2021 2873-2884*

Finite-Time Synchronization of Fractional-Order Complex-Variable Dynamic Networks. *Hou, T.*, +, *TSMC July 2021 4297-4307*

Finite-Time Synchronization of Memristive Neural Networks With Fractional-Order. *Yang, S.*, +, *TSMC June 2021 3739-3750*

Finite-Time Synchronization of Memristor-Based Recurrent Neural Networks With Inertial Items and Mixed Delays. *Lu, Z.*, +, *TSMC May 2021 2701-2711*

Fixed-Time Synchronization of Second-Order MNNs in Quaternion Field. *Wei, R.*, +, *TSMC June 2021 3587-3598*

Integrated Synchronization and Anti-Disturbance Control Design for Fuzzy Model-Based Multiweighted Complex Network. *Kaviarasan, B.*, +, *TSMC Oct. 2021 6330-6341*

Intermittent Control Strategy for Synchronization Analysis of Time-Varying Complex Dynamical Networks. *Wu, Y.*, +, *TSMC May 2021 3251-3262*

Optimal Output Synchronization Control of a Class of Complex Dynamical Networks With Partially Unknown System Dynamics. *Wang, N.*, +, *TSMC Feb. 2021 822-832*

Output Homogenization and Synchronization of Heterogeneous Nonlinear Multiagent Networks. *Wei, Y.*, +, *TSMC Dec. 2021 7295-7304*

Pose Synchronization of Multiple Networked Manipulators Using Nonsingular Terminal Sliding Mode Control. *Shen, H.*, +, *TSMC Dec. 2021 7497-7509*

Quasi-Synchronization for Periodic Neural Networks With Asynchronous Target and Constrained Information. *Xu, Y.*, +, *TSMC July 2021 4379-4388*

Quasi-Synchronization in Heterogeneous Harmonic Oscillators With Continuous and Sampled Coupling. *Wang, Z.*, +, *TSMC Feb. 2021 1267-1277*

Quasi-Synchronization of Delayed Memristive Neural Networks via a Hybrid Impulsive Control. *Zhou, Y.*, +, *TSMC March 2021 1954-1965*

Receding Horizon Synchronization of Delayed Neural Networks Using a Novel Inequality on Quadratic Polynomial Functions. *Lu, C.*, +, *TSMC Oct. 2021 6085-6095*

Reset Control for Consensus of Multiagent Systems With Asynchronous Sampling. *Zhao, G.*, +, *TSMC Aug. 2021 4911-4919*

Robust Exponential Synchronization for Memristor Neural Networks With Nonidentical Characteristics by Pinning Control. *Li, Y.*, +, *TSMC March 2021 1966-1980*

Synchronization of Lurie Systems Under Limited Network Transmission Capacity With Quantization and One-Step Packet Dropout: An Active Method. *Zhou, T.*, +, *TSMC Aug. 2021 4920-4928*

Synchronization of Resilient Complex Networks Under Attacks. *Wang, P.*, +, *TSMC Feb. 2021 1116-1127*

Synchronization on Lur'e Cluster Networks With Proportional Delay: Impulsive Effects Method. *Tang, Z.*, +, *TSMC July 2021 4555-4565*

Threshold-Function-Dependent Quasi-Synchronization of Delayed Memristive Neural Networks via Hybrid Event-Triggered Control. *Yan, Z.*, +, *TSMC Nov. 2021 6712-6722*

Synchronous generators

Design of Observer-Based Event-Triggered Fuzzy ISMC for T-S Fuzzy Model and its Application to PMSG. *Mani, P.*, +, *TSMC April 2021 2221-2231*

Passivity-Based Fuzzy ISMC for Wind Energy Conversion Systems With PMSG. *Subramaniam, R.*, +, *TSMC April 2021 2212-2220*

Synchronous motors

Design of Interval Type-2 Fuzzy-Based Sampled-Data Controller for Nonlinear Systems Using Novel Fuzzy Lyapunov Functional and its Application to PMSM. *Shanmugam, L.*, +, *TSMC Jan. 2021 542-551*

Reliable Fuzzy H_∞ Control for Permanent Magnet Synchronous Motor Against Stochastic Actuator Faults. *Vadivel, R.*, +, *TSMC April 2021 2232-2245*

Syntactics

Promotion of Answer Value Measurement With Domain Effects in Community Question Answering Systems. *Jin, B.*, +, *TSMC May 2021 3068-3079*

SysML

A Declarative Approach for Transforming SysML Models to Executable Simulation Models. *Kapos, G.*, +, *TSMC June 2021 3330-3345*

System dynamics

Distributed Velocity and Input Constrained Tracking Control of High-Speed Train Systems. *Lin, P.*, +, *TSMC Dec. 2021 7882-7888*

System recovery

Deadlock Prevention Controller for Automated Manufacturing Systems Modeled by S⁴PR. *Feng, Y.*, +, *TSMC Dec. 2021 7403-7412*

Systems engineering

A Declarative Approach for Transforming SysML Models to Executable Simulation Models. *Kapos, G.*, +, *TSMC June 2021 3330-3345*

Internet of Things as System of Systems: A Review of Methodologies, Frameworks, Platforms, and Tools. *Fortino, G.*, +, *TSMC Jan. 2021 223-236*

Investigating the Flexibility of the MBSE Approach to the Biomass Mission. *Gregory, J.*, +, *TSMC Nov. 2021 6946-6961*

Systems Science and Engineering Research in the Context of Systems, Man, and Cybernetics: Recollection, Trends, and Future Directions. *Tunstel, E.*, +, *TSMC Jan. 2021 5-21*

The Graph Model for Conflict Resolution and Decision Support. *Hipel, K.W.*, +, *TSMC Jan. 2021 131-141*

T

Tanks (containers)

Adaptive Finite-Time Tracking Control for Continuous Stirred Tank Reactor With Time-Varying Output Constraint. *Li, D.*, +, *TSMC Sept. 2021 5929-5934*

Target tracking

A Visual Leader-Following Approach With a T-D-R Framework for Quadruped Robots. *Pang, L.*, +, *TSMC April 2021 2342-2354*

Adaptive Transition Probability Matrix-Based Parallel IMM Algorithm. *Xie, G.*, +, *TSMC May 2021 2980-2989*

Cooperative Target Tracking in Aquatic Environment Using Dual Robotic Dolphins. *Liu, J.*, +, *TSMC Aug. 2021 4782-4792*

Distributed Fusion Estimation for Unstable Systems With Quantized Innovations. *Xiang, B.*, +, *TSMC Oct. 2021 6381-6387*

Distributed Kalman Filter for Multitarget Tracking Systems With Coupled Measurements. *Li, W.*, +, *TSMC Oct. 2021 6599-6604*

Fixed-Time Cooperative Relay Tracking in Multiagent Surveillance Networks. *Du, S.*, +, *TSMC Jan. 2021 487-496*

Linear and Nonlinear Regression-Based Maximum Correntropy Extended Kalman Filtering. *Liu, X.*, +, *TSMC May 2021 3093-3102*

Performance Evaluation of Joint Tracking and Classification. *Zhang, L.*, +, *TSMC Feb. 2021 1149-1163*

Underwater Target Tracking Control of an Untethered Robotic Fish With a Camera Stabilizer. *Yu, J.*, +, *TSMC Oct. 2021 6523-6534*

Task analysis

Networked Dual-Mode Adaptive Horizon MPC for Constrained Nonlinear Systems. *Li, P.*, +, *TSMC Dec. 2021 7435-7449*

Promotion of Answer Value Measurement With Domain Effects in Community Question Answering Systems. *Jin, B.*, +, *TSMC May 2021 3068-3079*

Taylor series

Stability Analysis of Discrete-Time Polynomial Fuzzy-Model-Based Control Systems With Time Delay and Positivity Constraints Through Piecewise Taylor Series Membership Functions. *Li, X.*, +, *TSMC Dec. 2021 7517-7529*

Technological innovation

Detection of Data Integrity Attacks in Distributed State Estimation. *Xia, Y.*, +, *TSMC Dec. 2021 7735-7744*

Telecommunication congestion control

Discrete-Time Sliding-Mode Controllers for MPTCP Networks. *Ignaciuk, P.*, +, *TSMC Oct. 2021 6029-6039*

Telecommunication network planning

Quick Convex Hull-Based Rendezvous Planning for Delay-Harsh Mobile Data Gathering in Disjoint Sensor Networks. *Liu, X.*, +, *TSMC June 2021 3844-3854*

Toward Pre-Empted EV Charging Recommendation Through V2V-Based Reservation System. *Cao, Y.*, +, *TSMC May 2021 3026-3039*

Telecommunication network reliability

Sequential Restorations of Complex Networks After Cascading Failures. *Huang, Y.*, +, *TSMC Jan. 2021 400-411*

Telecommunication network topology

Optimizing Pinning Control of Complex Dynamical Networks Based on Spectral Properties of Grounded Laplacian Matrices. *Liu, H.*, +, *TSMC Feb. 2021 786-796*

Recursive Filtering of Distributed Cyber-Physical Systems With Attack Detection. *Ding, D.*, +, *TSMC Oct. 2021 6466-6476*

Telecommunication power management

Resilient State Estimation of Cyber-Physical System With Multichannel Transmission Under DoS Attack. *Yuan, H.*, +, *TSMC Nov. 2021 6926-6937*

Telecommunication scheduling

On Feasibility of Multichannel Reconfigurable Wireless Sensor Networks Under Real-Time and Energy Constraints. *Aissa, Y.B.*, +, *TSMC March 2021 1446-1461*

Telecommunication security

A Double-Blind Anonymous Evaluation-Based Trust Model in Cloud Computing Environments. *Zhang, P.*, +, *TSMC March 2021 1805-1816*

An Efficient Lightweight Authentication Scheme With Adaptive Resilience of Asynchronization Attacks for Wireless Sensor Networks. *Xiong, L.*, +, *TSMC Sept. 2021 5626-5638*

Resilient State Estimation of Cyber-Physical System With Multichannel Transmission Under DoS Attack. *Yuan, H.*, +, *TSMC Nov. 2021 6926-6937*

Synchronization of Resilient Complex Networks Under Attacks. *Wang, P.*, +, *TSMC Feb. 2021 1116-1127*

Telecommunication traffic

Discrete-Time Sliding-Mode Controllers for MPTCP Networks. *Ignaciuk, P.*, +, *TSMC Oct. 2021 6029-6039*

Telecommunications

Multiaгент System-Based Integrated Design of Security Control and Economic Dispatch for Interconnected Microgrid Systems. *Zhang, Z.*, +, *TSMC April 2021 2101-2112*

Telerobotics

Force Sensorless Admittance Control for Teleoperation of Uncertain Robot Manipulator Using Neural Networks. *Yang, C.*, +, *TSMC May 2021 3282-3292*

Tensors

Event-Triggered Control for Output Regulation of Probabilistic Logical Systems With Delays. *He, J.*, +, *TSMC Nov. 2021 6842-6851*

Text analysis

A Novel Fuzzy Logic-Based Text Classification Method for Tracking Rare Events on Twitter. *Lu, X.S.*, +, *TSMC July 2021 4324-4333*

Multilevel Image-Enhanced Sentence Representation Net for Natural Language Inference. *Zhang, K.*, +, *TSMC June 2021 3781-3795*

Thermal stability

\mathcal{L}_1 Control of Positive Semi-Markov Jump Systems With State Delay. *Zong, G.*, +, *TSMC Dec. 2021 7569-7578*

Stability Analysis of Discrete-Time Polynomial Fuzzy-Model-Based Control Systems With Time Delay and Positivity Constraints Through Piecewise Taylor Series Membership Functions. *Li, X.*, +, *TSMC Dec. 2021 7517-7529*

Three-dimensional displays

Complex Workpiece Positioning System With Nonrigid Registration Method for 6-DoFs Automatic Spray Painting Robot. *Gao, H.*, +, *TSMC Dec. 2021 7305-7313*

Three-term control

Fractional-Order PID Controller Synthesis for Bifurcation of Fractional-Order Small-World Networks. *Xiao, M.*, +, *TSMC July 2021 4334-4346*

Model Predictive Control-Based Depth Control in Gliding Motion of a Gliding Robotic Dolphin. *Wang, J.*, +, *TSMC Sept. 2021 5466-5477*

Stability-Guaranteed Variable Impedance Control of Robots Based on Approximate Dynamic Inversion. *Sun, T.*, +, *TSMC July 2021 4193-4200*

Time-Optimal Point Stabilization Control for WIP Vehicles Using Quasi-Convex Optimization and B-Spline Adaptive Interpolation Techniques. *Ning, Y.*, +, *TSMC May 2021 3293-3303*

Time measurement

State Estimation for Networked Systems With Markov Driven Transmission and Buffer Constraint. *Xu, Y.*, +, *TSMC Dec. 2021 7727-7734*

Time series

A Fast Semi-Supervised Clustering Framework for Large-Scale Time Series Data. *He, G.*, +, *TSMC July 2021 4201-4216*

An Auto-Adjustable and Time-Consistent Model for Determining Coagulant Dosage Based on Operators' Experience. *Liu, Y.*, +, *TSMC Sept. 2021 5614-5625*

E-LSTM-D: A Deep Learning Framework for Dynamic Network Link Prediction. *Chen, J.*, +, *TSMC June 2021 3699-3712*

Inferring Network Structure and Estimating Dynamical Process From Binary-State Data via Logistic Regression. *Liu, Q.*, +, *TSMC Aug. 2021 4639-4649*

Time-varying systems

A Decomposition Approach for Synchronization of Heterogeneous Complex Networks. *Wang, L.*, +, *TSMC Feb. 2021 853-863*

A Finite-Time Distributed Optimization Algorithm for Economic Dispatch in Smart Grids. *Mao, S.*, +, *TSMC April 2021 2068-2079*

A Generalized System Approach to Intermittent Nonfragile Control of Stochastic Neutral Time-Varying Delay Systems. *Ding, K.*, +, *TSMC Nov. 2021 7017-7026*

A Linear Time-Varying Model Predictive Control-Based Motion Cueing Algorithm for Hexapod Simulation-Based Motion Platform. *Qazani, M.R.C.*, +, *TSMC Oct. 2021 6096-6110*

A Noise-Enduring and Finite-Time Zeroing Neural Network for Equality-Constrained Time-Varying Nonlinear Optimization. *Xiao, L.*, +, *TSMC Aug. 2021 4729-4740*

A Novel Robust Control Method for Motion Control of Uncertain Single-Link Flexible-Joint Manipulator. *Yan, Z.*, +, *TSMC March 2021 1671-1678*

A Prediction-Based Approach to Distributed Filtering With Missing Measurements and Communication Delays Through Sensor Networks. *Hu, J.*, +, *TSMC Nov. 2021 7063-7074*

Adaptive Asymptotic Tracking for a Class of Uncertain Switched Positive Compartmental Models With Application to Anesthesia. *Lv, M.*, +, *TSMC Aug. 2021 4936-4942*

Adaptive Compensation of Persistent Actuator Failures Using Control-Separation-Based LQ Design. *Wen, L.*, +, *TSMC Aug. 2021 5030-5045*

Adaptive Control of Full-State Constrained High-Order Nonlinear Systems With Time-Varying Powers. *Guo, C.*, +, *TSMC Aug. 2021 5189-5197*

Adaptive Estimation of Time-Varying Parameters With Application to Roto-Magnet Plant. *Na, J.*, +, *TSMC Feb. 2021 731-741*

Adaptive Finite-Time Fuzzy Funnel Control for Nonaffine Nonlinear Systems. *Liu, C.*, +, *TSMC May 2021 2894-2903*

- Adaptive Finite-Time Tracking Control for Continuous Stirred Tank Reactor With Time-Varying Output Constraint. *Li, D., +, TSMC Sept. 2021 5929-5934*
- Adaptive Iterative Learning Control for High-Speed Train: A Multi-Agent Approach. *Huang, D., +, TSMC July 2021 4067-4077*
- Adaptive Neural Tracking Control Scheme of Switched Stochastic Nonlinear Pure-Feedback Nonlower Triangular Systems. *Niu, B., +, TSMC Feb. 2021 975-986*
- Adaptive NN Cross Backstepping Control for Nonlinear Systems With Partial Time-Varying State Constraints and Its Applications to Hyper-Chaotic Systems. *Li, D., +, TSMC May 2021 2821-2832*
- Adaptive Quantized Control of Output Feedback Nonlinear Systems With Input Unmodeled Dynamics Based on Backstepping and Small-Gain Method. *Xia, X., +, TSMC Sept. 2021 5686-5697*
- Adaptive Tracking for Uncertain MIMO Nonlinear Systems With Time-Varying Parameters and Bounded Disturbance. *Zhang, Z., +, TSMC July 2021 4479-4491*
- Admissible Consensus for Homogenous Descriptor Multiagent Systems. *Liu, X., +, TSMC Feb. 2021 965-974*
- An Improved Impulsive Control Approach for Cluster Synchronization of Complex Networks With Parameter Mismatches. *Wang, X., +, TSMC April 2021 2561-2570*
- An Improved Result on Sampled-Data Synchronization of Markov Jump Delayed Neural Networks. *Shen, H., +, TSMC June 2021 3608-3616*
- An Input Delay Approach to Interval Type-2 Fuzzy Exponential Stabilization for Nonlinear Unreliable Networked Sampled-Data Control Systems. *Du, Z., +, TSMC June 2021 3488-3497*
- Asymptotic Stability and Synchronization of Fractional-Order Neural Networks With Unbounded Time-Varying Delays. *Zhang, F., +, TSMC Sept. 2021 5547-5556*
- Asynchronous Stabilization of Boolean Control Networks With Stochastic Switched Signals. *Fang, M., +, TSMC April 2021 2425-2432*
- Auxiliary Constrained Control of a Class of Fault-Tolerant Systems. *Jin, X., +, TSMC April 2021 2272-2283*
- Auxiliary Predictive Compensation-Based ILC for Variable Pass Lengths. *Lin, N., +, TSMC July 2021 4048-4056*
- Bandwidth Allocation-Based Switched Dynamic Triggering Control Against DoS Attacks. *Hu, S., +, TSMC Oct. 2021 6050-6061*
- Cluster Event-Triggered Tracking Cooperative and Formation Control for Multivehicle Systems: An Extended Magnification Region Condition. *Wang, B., TSMC May 2021 3229-3239*
- Connection of Signed and Unsigned Networks Based on Solving Linear Dynamic Systems. *Meng, D., +, TSMC Aug. 2021 5174-5188*
- Consensus of Multiagent Systems With Delayed Node Dynamics and Time-Varying Coupling. *Jia, Q., +, TSMC June 2021 3320-3329*
- Consensus of Multiagent Systems With Time-Varying Input Delay and Relative State Saturation Constraints. *Chu, H., +, TSMC Nov. 2021 6938-6944*
- Consensus of Multiagent Systems With Time-Varying Input Delay via Truncated Predictor Feedback. *Chu, H., +, TSMC Oct. 2021 6062-6073*
- Containment Control of Semi-Markovian Multiagent Systems With Switching Topologies. *Liang, H., +, TSMC June 2021 3889-3899*
- Cooperative Control of Multiple High-Order Agents With Nonidentical Unknown Control Directions Under Fixed and Time-Varying Topologies. *Wang, Q., +, TSMC April 2021 2582-2591*
- Cooperative Fault-Tolerant Output Regulation of Linear Heterogeneous Multiagent Systems Under Directed Network Topology. *Deng, C., TSMC Aug. 2021 4773-4781*
- Design of Interval Type-2 Fuzzy-Based Sampled-Data Controller for Nonlinear Systems Using Novel Fuzzy Lyapunov Functional and its Application to PMSM. *Shanmugam, L., +, TSMC Jan. 2021 542-551*
- Design of Sliding-Mode-Based Control for Nonlinear Systems With Mixed-Delays and Packet Losses Under Uncertain Missing Probability. *Hu, J., +, TSMC May 2021 3217-3228*
- Dissipativity Analysis of Switched Gene Regulatory Networks Actuated by Persistent Dwell-Time Switching Strategy. *Shen, H., +, TSMC Sept. 2021 5535-5546*
- Distributed Containment Control of MIMO Pure-Feedback Multiagent Systems Using Filter-Driven-Approximation Approach. *Choi, Y.H., +, TSMC Sept. 2021 5490-5502*
- Distributed Continuous-Time Optimization of Second-Order Multiagent Systems With Nonconvex Input Constraints. *Mo, L., +, TSMC Oct. 2021 6404-6413*
- Distributed-Observer-Based Nash Equilibrium Seeking Algorithm for Quadratic Games With Nonlinear Dynamics. *Huang, B., +, TSMC Nov. 2021 7260-7268*
- Event-Triggered H_∞ Filtering for Networked Switched Systems With Packet Disorders. *Qi, Y., +, TSMC May 2021 2847-2859*
- Event-Triggered Adaptive Output Feedback Control of Multivariable Systems With Nonsmooth Actuator Nonlinearities. *Yang, Y., +, TSMC Sept. 2021 5557-5566*
- Event-Triggered Consensus of General Linear Multiagent Systems With Data Sampling and Random Packet Losses. *Wang, F., +, TSMC Feb. 2021 1313-1321*
- Event-Triggered H_∞ Depth Control of Remotely Operated Underwater Vehicles. *Batmani, Y., +, TSMC Feb. 2021 1224-1232*
- Event-Triggered Sliding Mode Control of Switched Neural Networks With Mode-Dependent Average Dwell Time. *Yan, H., +, TSMC Feb. 2021 1233-1243*
- Exponential Stability of Delayed Generalized Neural Networks With Intermittent Large-Delay Periods. *Yang, B., +, TSMC Dec. 2021 7392-7402*
- Extended Dissipativity Performance of High-Speed Train Including Actuator Faults and Probabilistic Time-Delays Under Resilient Reliable Control. *Cao, J., +, TSMC June 2021 3808-3819*
- Finite-Time Dissipative Synchronization for Markovian Jump Generalized Inertial Neural Networks With Reaction-Diffusion Terms. *Song, X., +, TSMC June 2021 3650-3661*
- Finite-Time State Estimation for Delayed Neural Networks With Redundant Delayed Channels. *Zhao, Z., +, TSMC Jan. 2021 441-451*
- Finite-Time Synchronization for Switched Neural Networks via Quantized Feedback Control. *Guan, C., +, TSMC May 2021 2873-2884*
- Finite-Time Synchronization of Memristor-Based Recurrent Neural Networks With Inertial Items and Mixed Delays. *Lu, Z., +, TSMC May 2021 2701-2711*
- Full Information Estimation for Time-Varying Systems Subject to Round-Robin Scheduling: A Recursive Filter Approach. *Zou, L., +, TSMC March 2021 1904-1916*
- Global Output Feedback Sampled-Data Stabilization of a Class of Switched Nonlinear Systems in the p-Normal Form. *Li, S., +, TSMC Feb. 2021 1075-1084*
- HMM-Based Asynchronous Controller Design of Markovian Jumping Lur'e Systems Within a Finite-Time Interval. *Nie, R., +, TSMC Nov. 2021 6885-6891*
- Improved Stability Criteria for Discrete-Time Switched T-S Fuzzy Systems. *Fei, Z., +, TSMC Feb. 2021 712-720*
- Impulsive Stabilization of Nonlinear Time-Delay System With Input Saturation via Delay-Dependent Polytopic Approach. *Li, H., +, TSMC Nov. 2021 7087-7098*
- Input-Output Finite-Time Estimation for Complex Networks With Switching Topology Under Dynamic Event-Triggered Transmission. *Sang, H., +, TSMC Oct. 2021 6513-6522*
- Input-Output Finite-Time Reliable Static Output Control of Time-Varying System With Input Delay. *Chen, M., +, TSMC Feb. 2021 1334-1344*
- Intermittent Control Strategy for Synchronization Analysis of Time-Varying Complex Dynamical Networks. *Wu, Y., +, TSMC May 2021 3251-3262*
- Iterative Learning Control for Multiphase Batch Processes With Asynchronous Switching. *Wang, L., +, TSMC April 2021 2536-2549*
- Local Stabilization of Continuous-Time T-S Fuzzy Systems With Partly Measurable Premise Variables and Time-Varying Delay. *Wu, Y., +, TSMC Jan. 2021 326-338*
- LPV Scheme for Robust Adaptive Output Feedback Consensus of Lipschitz Multiagents Using Lipschitz Nonlinear Protocol. *Rehman, A.u., +, TSMC Nov. 2021 7040-7050*

- Lyapunov Control Method for Mismatched Uncertainty and Gain Variation Compensation in Switched Systems. *Aghababa, M.P., TSMC July 2021 4227-4237*
- Multiple ψ -Type Stability of Cohen–Grossberg Neural Networks With Unbounded Time-Varying Delays. *Zhang, F., +, TSMC Jan. 2021 521-531*
- Neural Network-Based Sampled-Data Control for Switched Uncertain Nonlinear Systems. *Li, S., +, TSMC Sept. 2021 5437-5445*
- Neural-Based Decentralized Adaptive Finite-Time Control for Nonlinear Large-Scale Systems With Time-Varying Output Constraints. *Du, P., +, TSMC May 2021 3136-3147*
- New Noise-Tolerant ZNN Models With Predefined-Time Convergence for Time-Variant Sylvester Equation Solving. *Xiao, L., +, TSMC June 2021 3629-3640*
- New Stability Conditions for Switched Linear Systems: A Reverse-Timer-Dependent Multiple Discontinuous Lyapunov Function Approach. *Li, Y., +, TSMC Oct. 2021 6564-6575*
- Nonfragile Consensus of Multiagent Systems Based on Memory Sampled-Data Control. *Ge, C., +, TSMC Jan. 2021 391-399*
- Nonfragile Sampled-Data Filtering of Uncertain Fuzzy Systems With Time-Varying Delays. *Luo, J., +, TSMC Aug. 2021 4993-5004*
- Novel Resilient Structure of Output Formation Tracking of Heterogeneous Systems With Unknown Leader Under Contested Environments. *Li, Q., +, TSMC Nov. 2021 6819-6829*
- Observer-Based Adaptive Event-Triggered Control for Nonstrict-Feedback Nonlinear Systems With Output Constraint and Actuator Failures. *Cao, L., +, TSMC March 2021 1380-1391*
- On Finite-Duration Convergent Attracting Laws. *Sun, M., +, TSMC Aug. 2021 5017-5029*
- Optimal Output Synchronization Control of a Class of Complex Dynamical Networks With Partially Unknown System Dynamics. *Wang, N., +, TSMC Feb. 2021 822-832*
- Output-Feedback Adaptive Control of Nonlinear Systems With Input–Output-Dependent Lower-Triangular Growth Rate: A Logic-Based Switching Approach. *Huang, C., +, TSMC Aug. 2021 4804-4813*
- Output-Feedback-Based Consensus Control Without Continuous Interagent Communication. *Shih, C., +, TSMC May 2021 3240-3250*
- Partial-Nodes-Based Scalable H_∞ -Consensus Filtering With Censored Measurements Over Sensor Networks. *Han, F., +, TSMC March 2021 1892-1903*
- Prescribed Performance Neuroadaptive Fault-Tolerant Compensation for MIMO Nonlinear Systems Under Extreme Actuator Failures. *Zhou, S., +, TSMC Sept. 2021 5427-5436*
- Quantized Sliding Mode Control of Unmanned Marine Vehicles: Various Thruster Faults Tolerated With a Unified Model. *Hao, L., +, TSMC March 2021 2012-2026*
- Quasi-Consensus Control for a Class of Time-Varying Stochastic Nonlinear Time-Delay Multiagent Systems Subject to Deception Attacks. *Liu, L., +, TSMC Nov. 2021 6863-6873*
- Quasi-Synchronization of Delayed Memristive Neural Networks via a Hybrid Impulsive Control. *Zhou, Y., +, TSMC March 2021 1954-1965*
- Random Sleep Scheme-Based Distributed Optimization Algorithm Over Unbalanced Time-Varying Networks. *Li, H., +, TSMC Aug. 2021 5244-5253*
- Receding Horizon Synchronization of Delayed Neural Networks Using a Novel Inequality on Quadratic Polynomial Functions. *Lu, C., +, TSMC Oct. 2021 6085-6095*
- Reduced-Order Estimator-Based Efficient Fault-Tolerant Tracking Control Optimization for Constrained LPV Systems. *Han, K., +, TSMC Sept. 2021 5855-5866*
- Relay Tracking Controller Design for Multiagent Systems With Varying Number of Agents. *Dong, L., +, TSMC Oct. 2021 6147-6158*
- Removing Feasibility Conditions on Tracking Control of Full-State Constrained Nonlinear Systems With Time-Varying Powers. *Xie, X., +, TSMC Oct. 2021 6535-6543*
- Repetitive Learning Control for Control-Affine Systems With Time Delays. *Li, H., +, TSMC Aug. 2021 5142-5152*
- Resilient H_∞ Filtering for Event-Triggered Networked Systems Under Non-periodic DoS Jamming Attacks. *Hu, S., +, TSMC March 2021 1392-1403*
- Robust Adaptive Control for State-Constrained Nonlinear Systems With Input Saturation and Unknown Control Direction. *Wu, Y., +, TSMC Feb. 2021 1192-1202*
- Robust Exponential Stability Analysis for Stochastic Systems With Actuator Faults Using Improved Weighted Relaxed Integral Inequality. *Gnanesanaran, N., +, TSMC June 2021 3346-3357*
- Robust Exponential Synchronization for Memristor Neural Networks With Nonidentical Characteristics by Pinning Control. *Li, Y., +, TSMC March 2021 1966-1980*
- Robust LMI-Based H-Infinite Controller Integrating AFS and DYC of Autonomous Vehicles With Parametric Uncertainties. *Cheng, S., +, TSMC Nov. 2021 6901-6910*
- Robust Particle Filtering With Time-Varying Model Uncertainty and Inaccurate Noise Covariance Matrix. *Li, W., +, TSMC Nov. 2021 7099-7108*
- Robust Stabilization of High-Order Nonlinear Systems With Unknown Sensitivities and Applications in Humanoid Robot Manipulation. *Sun, Z., +, TSMC July 2021 4409-4416*
- Robust Time-Varying Formation Control for Tail-Sitters in Flight Mode Transitions. *Liu, D., +, TSMC July 2021 4102-4111*
- Robust Tracking of Nonrepetitive Learning Control Systems With Iteration-Dependent References. *Meng, D., +, TSMC Feb. 2021 842-852*
- Stability Analysis for Input Saturated Discrete-Time Switched Systems With Average Dwell-Time. *Wang, Q., +, TSMC Jan. 2021 412-419*
- Stability Analysis of Systems With Time-Varying Delay via Improved Lyapunov–Krasovskii Functionals. *Long, F., +, TSMC April 2021 2457-2466*
- Stability Criteria for Impulsive Stochastic Functional Differential Systems With Distributed-Delay Dependent Impulsive Effects. *Hu, W., +, TSMC March 2021 2027-2032*
- Stable Adaptive Controller Based on Generalized Regression Neural Networks and Sliding Mode Control for a Class of Nonlinear Time-Varying Systems. *Al-Mahasneh, A.J., +, TSMC April 2021 2525-2535*
- Strict Lyapunov Functions for Homogeneous Time-Varying Systems. *Zhang, B., +, TSMC March 2021 1994-2002*
- Synchronization on Lur'e Cluster Networks With Proportional Delay: Impulsive Effects Method. *Tang, Z., +, TSMC July 2021 4555-4565*
- Takagi–Sugeno Model-Based Reliable Sliding Mode Control of Descriptor Systems With Semi-Markov Parameters: Average Dwell Time Approach. *Jiang, B., +, TSMC March 2021 1549-1558*
- The Set-Invariance Paradigm in Fuzzy Adaptive DSC Design of Large-Scale Nonlinear Input-Constrained Systems. *Lv, M., +, TSMC Feb. 2021 1035-1045*
- Time-Varying Formation for General Linear Multiagent Systems Over Directed Topologies: A Fully Distributed Adaptive Technique. *Zhao, Y., +, TSMC Jan. 2021 532-541*
- Tracking Flight Control of Quadrotor Based on Disturbance Observer. *Chen, M., +, TSMC March 2021 1414-1423*
- Twofold Sliding Controller Design for Uncertain Switched Nonlinear Systems. *Aghababa, M.P., TSMC Feb. 2021 1203-1214*

Topology

- A New Fixed-Time Consensus Tracking Approach for Second-Order Multiagent Systems Under Directed Communication Topology. *Ni, J., +, TSMC April 2021 2488-2500*
- Connection of Signed and Unsigned Networks Based on Solving Linear Dynamic Systems. *Meng, D., +, TSMC Aug. 2021 5174-5188*
- Consensus of High-Order Discrete-Time Multiagent Systems With Switching Topology. *Zhang, Y., +, TSMC Feb. 2021 721-730*
- Cooperative Control of Multiple High-Order Agents With Nonidentical Unknown Control Directions Under Fixed and Time-Varying Topologies. *Wang, Q., +, TSMC April 2021 2582-2591*
- Cooperative Fault-Tolerant Output Regulation of Linear Heterogeneous Multiagent Systems Under Directed Network Topology. *Deng, C., TSMC Aug. 2021 4773-4781*
- Coordination and Control of Complex Network Systems With Switching Topologies: A Survey. *Wen, G., +, TSMC Oct. 2021 6342-6357*

Couple-Group Consensus for Cooperative-Competitive Heterogeneous Multiagent Systems: Hybrid Adaptive and Pinning Methods. *Ji, L., +, TSMC Sept. 2021 5367-5376*

Distributed Consensus Control of Linear Multiagent Systems With Adaptive Nonlinear Couplings. *Wei, B., +, TSMC Feb. 2021 1365-1370*

Effect of Asynchronous Communications on Stationary Solutions for Discrete-Time Multiagent Systems. *Lee, K., TSMC June 2021 3450-3463*

Event-Triggered Iterative Learning Containment Control of Model-Free Multiagent Systems. *Hua, C., +, TSMC Dec. 2021 7719-7726*

Fast Pore Comparison for High Resolution Fingerprint Images Based on Multiple Co-Occurrence Descriptors and Local Topology Similarities. *Xu, Y., +, TSMC Sept. 2021 5721-5731*

Fully Distributed Finite-Time Consensus of Directed Multiquadcopter Systems via Pinning Control. *Zhou, Y., +, TSMC Aug. 2021 5080-5089*

Output-Feedback-Based Consensus Control Without Continuous Interagent Communication. *Shih, C., +, TSMC May 2021 3240-3250*

Robust Containment Control of Uncertain Multi-Agent Systems With Time-Delay and Heterogeneous Lipschitz Nonlinearity. *Parsa, M., +, TSMC April 2021 2312-2321*

Suboptimal Control and Targeted Constant Control for Semi-Random Epidemic Networks. *Li, K., +, TSMC April 2021 2602-2610*

Tracking

A Novel Robust Control Method for Motion Control of Uncertain Single-Link Flexible-Joint Manipulator. *Yan, Z., +, TSMC March 2021 1671-1678*

A Visual Leader-Following Approach With a T-D-R Framework for Quadruiped Robots. *Pang, L., +, TSMC April 2021 2342-2354*

Adaptive Intelligent Control for Input and Output Constrained High-Order Uncertain Nonlinear Systems. *Sun, W., +, TSMC Sept. 2021 5577-5586*

Adaptive Iterative Learning Control for High-Speed Train: A Multi-Agent Approach. *Huang, D., +, TSMC July 2021 4067-4077*

Adaptive Neural Discrete-Time Fractional-Order Control for a UAV System With Prescribed Performance Using Disturbance Observer. *Shao, S., +, TSMC Feb. 2021 742-754*

Adaptive Path Following Control of Unmanned Surface Vehicles Considering Environmental Disturbances and System Constraints. *Liu, Z., +, TSMC Jan. 2021 339-353*

Adaptive Sliding Mode Fault-Tolerant Fuzzy Tracking Control With Application to Unmanned Marine Vehicles. *Wang, Y., +, TSMC Nov. 2021 6691-6700*

Adaptive Tracking for Uncertain MIMO Nonlinear Systems With Time-Varying Parameters and Bounded Disturbance. *Zhang, Z., +, TSMC July 2021 4479-4491*

Command Filter-Based Adaptive Prescribed Performance Tracking Control for Stochastic Uncertain Nonlinear Systems. *Sun, W., +, TSMC Oct. 2021 6555-6563*

Distributed Velocity and Input Constrained Tracking Control of High-Speed Train Systems. *Lin, P., +, TSMC Dec. 2021 7882-7888*

Disturbance Observer-Based Adaptive Finite-Time Attitude Tracking Control for Rigid Spacecraft. *Zhang, J., +, TSMC Nov. 2021 6606-6613*

Event-Triggered Prescribed Performance Control for a Class of Unknown Nonlinear Systems. *Zhang, J., +, TSMC Oct. 2021 6576-6586*

Fixed-Time Cooperative Relay Tracking in Multiagent Surveillance Networks. *Du, S., +, TSMC Jan. 2021 487-496*

Further Results on Fixed-Time Stabilization and Tracking Control of a Marine Surface Ship Subjected to Output Constraints. *Zhang, Z., +, TSMC Sept. 2021 5300-5310*

Leader-Follower Trajectory Control for Quadrotors via Tracking Differentiators and Disturbance Observers. *Yang, H., +, TSMC Jan. 2021 601-609*

Observer-Based Finite-Time Control for Distributed Path Maneuvering of Underactuated Unmanned Surface Vehicles With Collision Avoidance and Connectivity Preservation. *Gu, N., +, TSMC Aug. 2021 5105-5115*

Output Tracking of Uncertain Nonminimum Phase Systems by Experience Replay. *Ye, L., +, TSMC May 2021 3159-3167*

Position-Tracking Controller for Two-Wheeled Balancing Robot Applications Using Invariant Dynamic Surface. *Kim, S., +, TSMC Feb. 2021 705-711*

Quantized Decentralized Adaptive Neural Network PI Tracking Control for Uncertain Interconnected Nonlinear Systems With Dynamic Uncertainties. *Sun, H., +, TSMC May 2021 3111-3124*

Quantized Static Output Feedback Fuzzy Tracking Control for Discrete-Time Nonlinear Networked Systems With Asynchronous Event-Triggered Constraints. *Li, Z., +, TSMC June 2021 3820-3831*

Robust Tracking of Nonrepetitive Learning Control Systems With Iteration-Dependent References. *Meng, D., +, TSMC Feb. 2021 842-852*

Tracking Controllers to Chase a Target Using Multiple Autonomous Underwater Vehicles Measuring the Sound Emitted From the Target. *Kim, J., TSMC July 2021 4579-4587*

Variable Cut-Off Frequency Algorithm-Based Nonlinear Position Controller for Magnetic Levitation System Applications. *Kim, S., +, TSMC July 2021 4599-4605*

Tracking filters

Distributed Kalman Filter for Multitarget Tracking Systems With Coupled Measurements. *Li, W., +, TSMC Oct. 2021 6599-6604*

Traffic engineering computing

Concurrent Processing Cluster Design to Empower Simultaneous Prediction for Hundreds of Vessels' Trajectories in Near Real-Time. *Xiao, Z., +, TSMC March 2021 1830-1843*

Efficient Batch-Mode Reinforcement Learning Using Extreme Learning Machines. *Liu, J., +, TSMC June 2021 3664-3677*

Visual Human-Computer Interactions for Intelligent Vehicles and Intelligent Transportation Systems: The State of the Art and Future Directions. *Wang, X., +, TSMC Jan. 2021 253-265*

Training data

AUC-Based Extreme Learning Machines for Supervised and Semi-Supervised Imbalanced Classification. *Wang, G., +, TSMC Dec. 2021 7919-7930*

Discriminative Face Hallucination via Locality-Constrained and Category Embedding Representation. *Liu, L., +, TSMC Dec. 2021 7314-7325*

Emotion Classification Using EEG Brain Signals and the Broad Learning System. *Issa, S., +, TSMC Dec. 2021 7382-7391*

Event-Triggered Model Predictive Control With a Statistical Learning. *Yoo, J., +, TSMC April 2021 2571-2581*

Trajectory

Complex Workpiece Positioning System With Nonrigid Registration Method for 6-DoFs Automatic Spray Painting Robot. *Gao, H., +, TSMC Dec. 2021 7305-7313*

Distributed Tracking for Discrete-Time Multiagent Networks via an Ultrafast Control Protocol. *Zhang, W., +, TSMC Dec. 2021 7542-7552*

Estimating Minimal Domains of Attraction for Uncertain Nonlinear Systems. *Wang, S., +, TSMC Dec. 2021 7776-7787*

Foot Placement Compensator Design for Humanoid Walking Based on Discrete Control Lyapunov Function. *Liu, C., +, TSMC April 2021 2332-2341*

Observer-Based Sliding Mode Control for Stabilization of Mismatched Disturbance Systems With or Without Time Delays. *Zhao, Y., +, TSMC Dec. 2021 7337-7345*

Pose Synchronization of Multiple Networked Manipulators Using Nonsingular Terminal Sliding Mode Control. *Shen, H., +, TSMC Dec. 2021 7497-7509*

Sliding-Mode Control for Slow-Sampling Singularly Perturbed Systems Subject to Markov Jump Parameters. *Wang, J., +, TSMC Dec. 2021 7579-7586*

Trajectory Planning of Free-Floating Space Manipulators With Spacecraft Attitude Stabilization and Manipulability Optimization. *Lu, X., +, TSMC Dec. 2021 7346-7362*

Trajectory control

Distributed Formation Control of Nonholonomic Wheeled Mobile Robots Subject to Longitudinal Slippage Constraints. *Wang, Z., +, TSMC May 2021 2992-3003*

Leader-Follower Trajectory Control for Quadrotors via Tracking Differentiators and Disturbance Observers. *Yang, H., +, TSMC Jan. 2021 601-609*

Multisensor-Based Navigation and Control of a Mobile Service Robot. *Yuan, W., +, TSMC April 2021 2624-2634*

Robust Time-Varying Formation Control for Tail-Sitters in Flight Mode Transitions. *Liu, D., +, TSMC July 2021 4102-4111*

Visual Trajectory Tracking of Wheeled Mobile Robots With Uncalibrated Camera Extrinsic Parameters. *Zhang, K., +, TSMC Nov. 2021 7191-7200*

Trajectory planning

Trajectory Planning of Free-Floating Space Manipulators With Spacecraft Attitude Stabilization and Manipulability Optimization. *Lu, X., +, TSMC Dec. 2021 7346-7362*

Transfer functions

On the Principle and Applications of Conditional Disturbance Negation. *Pu, Z., +, TSMC Nov. 2021 6757-6767*

Stepsize Interval Confirmation of General Four-Step DTZN Algorithm Illustrated With Future Quadratic Programming and Tracking Control of Manipulators. *Guo, J., +, TSMC March 2021 1662-1670*

Transfer learning

Deep Q-Learning With Q-Matrix Transfer Learning for Novel Fire Evacuation Environment. *Sharma, J., +, TSMC Dec. 2021 7363-7381*

Transformer oil

Uncertainty-Aware Fusion of Probabilistic Classifiers for Improved Transformer Diagnostics. *Aizpurua, J.I., +, TSMC Jan. 2021 621-633*

Transforms

Transformation-Aware Similarity Measurement for Image Retargeting Quality Assessment via Bidirectional Rewarping. *Shao, F., +, TSMC May 2021 3053-3067*

Unknown Dynamics Estimator-Based Output-Feedback Control for Nonlinear Pure-Feedback Systems. *Na, J., +, TSMC June 2021 3832-3843*

Transient analysis

Integrated Scheduling of a Dual-Armed Cluster Tool for Maximizing Steady Schedule Patterns. *Kim, W., +, TSMC Dec. 2021 7282-7294*

Integrated Scheduling of a Dual-Armed Cluster Tool for Maximizing Steady Schedule Patterns. *Kim, W., +, TSMC Dec. 2021 7282-7294*

NN-Based Adaptive Tracking Control of Discrete-Time Nonlinear Systems With Actuator Saturation and Event-Triggering Protocol. *Wang, M., +, TSMC Dec. 2021 7613-7621*

Transient response

Adaptive Tracking Control of FIR Systems Under Binary-Valued Observations and Recursive Projection Identification. *Wang, T., +, TSMC Sept. 2021 5289-5299*

Bank of High-Gain Observers in Output Feedback Control: Robustness Analysis Against Measurement Noise. *Esfandiari, K., +, TSMC April 2021 2476-2487*

Interval Type-2 FNN-Based Quantized Tracking Control for Hypersonic Flight Vehicles With Prescribed Performance. *Gao, Y., +, TSMC March 2021 1981-1993*

Transport protocols

Discrete-Time Sliding-Mode Controllers for MPTCP Networks. *Ignaciuk, P., +, TSMC Oct. 2021 6029-6039*

Traveling salesman problems

Enhanced Branch-and-Bound Framework for a Class of Sequencing Problems. *Zhang, Z., +, TSMC May 2021 2726-2736*

Trees (mathematics)

Connection of Signed and Unsigned Networks Based on Solving Linear Dynamic Systems. *Meng, D., +, TSMC Aug. 2021 5174-5188*

Consensus of One-Sided Lipschitz Multiagents Under Switching Topologies. *Razaq, M.A., +, TSMC March 2021 1485-1495*

Cooperative Control of Multiple High-Order Agents With Nonidentical Unknown Control Directions Under Fixed and Time-Varying Topologies. *Wang, Q., +, TSMC April 2021 2582-2591*

Cooperative Target Tracking in Aquatic Environment Using Dual Robotic Dolphins. *Liu, J., +, TSMC Aug. 2021 4782-4792*

Distributed Algorithms for Average Consensus of Input Data With Fast Convergence. *Xie, K., +, TSMC May 2021 2653-2664*

Optimal Consensus via Distributed Protocol for Second-Order Multiagent Systems. *Sun, H., +, TSMC Oct. 2021 6218-6228*

Tuning

Observer-Based PID Security Control for Discrete Time-Delay Systems Under Cyber-Attacks. *Zhao, D., +, TSMC June 2021 3926-3938*

Robust Global Coordination of Networked Systems With Input Saturation and External Disturbances. *Wang, X., +, TSMC Dec. 2021 7788-7800*

Turbidity

An Auto-Adjustable and Time-Consistent Model for Determining Coagulant Dosage Based on Operators' Experience. *Liu, Y., +, TSMC Sept. 2021 5614-5625*

U

Ubiquitous computing

An Indoor Positioning Algorithm Based on Fingerprint and Mobility Prediction in RSS Fluctuation-Prone WLANs. *Lin, C., +, TSMC May 2021 2926-2936*

Secure State Estimation and Control of Cyber-Physical Systems: A Survey. *Ding, D., +, TSMC Jan. 2021 176-190*

Ultrasonic transducers

A Wearable Ultrasound System for Sensing Muscular Morphological Deformations. *Yang, X., +, TSMC June 2021 3370-3379*

Uncertain systems

A Generalized System Approach to Intermittent Nonfragile Control of Stochastic Neutral Time-Varying Delay Systems. *Ding, K., +, TSMC Nov. 2021 7017-7026*

A Noise-Enduring and Finite-Time Zeroing Neural Network for Equality-Constrained Time-Varying Nonlinear Optimization. *Xiao, L., +, TSMC Aug. 2021 4729-4740*

A Novel Robust Control Method for Motion Control of Uncertain Single-Link Flexible-Joint Manipulator. *Yan, Z., +, TSMC March 2021 1671-1678*

Adaptive Asymptotic Tracking for a Class of Uncertain Switched Positive Compartmental Models With Application to Anesthesia. *Lu, M., +, TSMC Aug. 2021 4936-4942*

Adaptive Command Filtered Neuro-Fuzzy Control Design for Fractional-Order Nonlinear Systems With Unknown Control Directions and Input Quantization. *Song, S., +, TSMC Nov. 2021 7238-7249*

Adaptive Compensation of Persistent Actuator Failures Using Control-Separation-Based LQ Design. *Wen, L., +, TSMC Aug. 2021 5030-5045*

Adaptive Finite-Time Fuzzy Funnel Control for Nonaffine Nonlinear Systems. *Liu, C., +, TSMC May 2021 2894-2903*

Adaptive Finite-Time Saturated Tracking Control for a Class of Partially Known Robots. *Hwang, C., +, TSMC Sept. 2021 5674-5685*

Adaptive Finite-Time Tracking Control for Continuous Stirred Tank Reactor With Time-Varying Output Constraint. *Li, D., +, TSMC Sept. 2021 5929-5934*

Adaptive Fixed-Time Control of Error-Constrained Pure-Feedback Interconnected Nonlinear Systems. *Zhou, Q., +, TSMC Oct. 2021 6369-6380*

Adaptive Fuzzy Full-State and Output-Feedback Control for Uncertain Robots With Output Constraint. *Yu, X., +, TSMC Nov. 2021 6994-7007*

Adaptive High-Order Terminal Sliding Mode Control Based on Time Delay Estimation for the Robotic Manipulators With Backlash Hysteresis. *Ahmed, S., +, TSMC Feb. 2021 1128-1137*

Adaptive Intelligent Control for Input and Output Constrained High-Order Uncertain Nonlinear Systems. *Sun, W., +, TSMC Sept. 2021 5577-5586*

Adaptive Inverse Control of a Vibrating Coupled Vessel-Riser System With Input Backlash. *He, X., +, TSMC Aug. 2021 4706-4715*

Adaptive Leaderless Consensus Control of Strict-Feedback Nonlinear Multiagent Systems With Unknown Control Directions. *Rezaee, H., +, TSMC Oct. 2021 6435-6444*

Adaptive Neural Discrete-Time Fractional-Order Control for a UAV System With Prescribed Performance Using Disturbance Observer. *Shao, S., +, TSMC Feb. 2021 742-754*

Adaptive Neural Network Control Design for Uncertain Nonstrict Feedback Nonlinear System With State Constraints. *Ma, L., +, TSMC June 2021 3678-3686*

Adaptive Neural Network-Based Finite-Time Tracking Control for Nonstrict Nonaffine MIMO Nonlinear Systems. *Li, S., +, TSMC Aug. 2021 4814-4824*

Adaptive Neural Sliding Mode Control for Singular Semi-Markovian Jump Systems Against Actuator Attacks. *Cao, Z., +, TSMC March 2021 1523-1533*

- Adaptive Neural Tracking Control Scheme of Switched Stochastic Nonlinear Pure-Feedback Nonlower Triangular Systems. *Niu, B., +, TSMC Feb. 2021 975-986*
- Adaptive NN Cross Backstepping Control for Nonlinear Systems With Partial Time-Varying State Constraints and Its Applications to Hyper-Chaotic Systems. *Li, D., +, TSMC May 2021 2821-2832*
- Adaptive Quantized Control of Output Feedback Nonlinear Systems With Input Unmodeled Dynamics Based on Backstepping and Small-Gain Method. *Xia, X., +, TSMC Sept. 2021 5686-5697*
- Adaptive Tracking for Uncertain MIMO Nonlinear Systems With Time-Varying Parameters and Bounded Disturbance. *Zhang, Z., +, TSMC July 2021 4479-4491*
- Adaptive Type-2 FNN-Based Dynamic Sliding Mode Control of DC-DC Boost Converters. *Wang, J., +, TSMC April 2021 2246-2257*
- Admissibilization for Implicit Jump Systems With Mixed Retarded Delays Based on Reciprocally Convex Integral Inequality and Barbalat's Lemma. *Zhuang, G., +, TSMC Nov. 2021 6808-6818*
- Asymmetric Bounded Neural Control for an Uncertain Robot by State Feedback and Output Feedback. *Kong, L., +, TSMC March 2021 1735-1746*
- Auxiliary Constrained Control of a Class of Fault-Tolerant Systems. *Jin, X., +, TSMC April 2021 2272-2283*
- Boundary Output Constrained Control for a Flexible Beam System With Prescribed Performance. *Zhao, Z., +, TSMC Aug. 2021 4650-4658*
- Command Filter-Based Adaptive Fuzzy Control for Nonlinear Systems With Unknown Control Directions. *Xia, J., +, TSMC March 2021 1945-1953*
- Command Filter-Based Adaptive Prescribed Performance Tracking Control for Stochastic Uncertain Nonlinear Systems. *Sun, W., +, TSMC Oct. 2021 6555-6563*
- Containment Control of Semi-Markovian Multiagent Systems With Switching Topologies. *Liang, H., +, TSMC June 2021 3889-3899*
- Control Design for Uncertain Switched Nonlinear Systems: Adaptive Neural Approach. *Liu, Z., +, TSMC April 2021 2322-2331*
- Cooperative Control of Multiple High-Order Agents With Nonidentical Unknown Control Directions Under Fixed and Time-Varying Topologies. *Wang, Q., +, TSMC April 2021 2582-2591*
- Decentralized Event-Triggered Tracking of a Class of Uncertain Interconnected Nonlinear Systems Using Minimal Function Approximators. *Choi, Y.H., +, TSMC March 2021 1766-1778*
- Design of Observer-Based Event-Triggered Fuzzy ISMC for T-S Fuzzy Model and its Application to PMSG. *Mani, P., +, TSMC April 2021 2221-2231*
- Design of Output-Based Finite-Time Convergent Composite Controller for a Class of Perturbed Second-Order Nonlinear Systems. *Zhu, W., +, TSMC Nov. 2021 6768-6778*
- Design of Sliding-Mode-Based Control for Nonlinear Systems With Mixed-Delays and Packet Losses Under Uncertain Missing Probability. *Hu, J., +, TSMC May 2021 3217-3228*
- Distributed Containment Control of MIMO Pure-Feedback Multiagent Systems Using Filter-Driven-Approximation Approach. *Choi, Y.H., +, TSMC Sept. 2021 5490-5502*
- Distributed Containment Maneuvering of Uncertain Multiagent Systems in MIMO Strict-Feedback Form. *Zhang, Y., +, TSMC Feb. 2021 1354-1364*
- Distributed Optimal Consensus Control for a Class of Uncertain Nonlinear Multiagent Networks With Disturbance Rejection Using Adaptive Technique. *Wang, D., +, TSMC July 2021 4389-4399*
- Echo State Network-Based Decentralized Control of Continuous-Time Nonlinear Large-Scale Interconnected Systems. *Zhang, H., +, TSMC Oct. 2021 6293-6303*
- Estimate-Based Dynamic Event-Triggered Output Feedback Control of Networked Nonlinear Uncertain Systems. *Sun, J., +, TSMC May 2021 3148-3158*
- Estimating Minimal Domains of Attraction for Uncertain Nonlinear Systems. *Wang, S., +, TSMC Dec. 2021 7776-7787*
- Event-Triggered Control for Multiagent Systems With Sensor Faults and Input Saturation. *Cao, L., +, TSMC June 2021 3855-3866*
- Event-Triggered Prescribed Performance Control for a Class of Unknown Nonlinear Systems. *Zhang, J., +, TSMC Oct. 2021 6576-6586*
- Event-Triggered Robust Output Regulation of Uncertain Linear Systems With Unknown Exosystems. *Qian, Y., +, TSMC July 2021 4139-4148*
- Exponential Stability of Markovian Jumping Systems via Adaptive Sliding Mode Control. *Xu, C., +, TSMC Feb. 2021 954-964*
- Extended Dissipativity Performance of High-Speed Train Including Actuator Faults and Probabilistic Time-Delays Under Resilient Reliable Control. *Cao, J., +, TSMC June 2021 3808-3819*
- Fault-Tolerant Control for Dynamic Positioning Vessel With Thruster Faults Based on the Neural Modified Extended State Observer. *Yu, W., +, TSMC Sept. 2021 5905-5917*
- Finite-Time Stabilization of High-Order Stochastic Nonlinear Systems With Asymmetric Output Constraints. *Fang, L., +, TSMC Nov. 2021 7201-7213*
- Force Sensorless Admittance Control for Teleoperation of Uncertain Robot Manipulator Using Neural Networks. *Yang, C., +, TSMC May 2021 3282-3292*
- Funnel Control of Uncertain High-Order Nonlinear Systems With Unknown Rational Powers. *Liu, Y., +, TSMC Sept. 2021 5732-5741*
- Fuzzy Adaptive Fault-Tolerant Control of Fractional-Order Nonlinear Systems. *Li, Y., +, TSMC March 2021 1372-1379*
- Fuzzy Adaptive Tracking Control for State Constraint Switched Stochastic Nonlinear Systems With Unstable Inverse Dynamics. *Wu, W., +, TSMC Sept. 2021 5522-5534*
- Fuzzy Finite-Time Tracking Control for a Class of Nonaffine Nonlinear Systems With Unknown Dead Zones. *Bao, J., +, TSMC Jan. 2021 452-463*
- Fuzzy Sampled-Data Control for DFIG-Based Wind Turbine With Stochastic Actuator Failures. *Sharmila, V., +, TSMC April 2021 2199-2211*
- Fuzzy-Affine-Model-Based Output Feedback Dynamic Sliding Mode Controller Design of Nonlinear Systems. *Ji, W., +, TSMC March 2021 1652-1661*
- Global Adaptive Control for Uncertain Nonlinear Systems With Sensor and Actuator Faults. *Ma, J., +, TSMC Sept. 2021 5503-5510*
- Global Event-Triggered Output Feedback Stabilization of a Class of Nonlinear Systems. *Cheng, Y., +, TSMC July 2021 4040-4047*
- Impulsive Stabilization of Nonlinear Time-Delay System With Input Saturation via Delay-Dependent Polytopic Approach. *Li, H., +, TSMC Nov. 2021 7087-7098*
- Input-Output Finite-Time Estimation for Complex Networks With Switching Topology Under Dynamic Event-Triggered Transmission. *Sang, H., +, TSMC Oct. 2021 6513-6522*
- Input-Output Finite-Time Sliding-Mode Control for T-S Fuzzy Systems With Application. *Qi, W., +, TSMC Sept. 2021 5446-5455*
- Interval Type-2 FNN-Based Quantized Tracking Control for Hypersonic Flight Vehicles With Prescribed Performance. *Gao, Y., +, TSMC March 2021 1981-1993*
- LPV Scheme for Robust Adaptive Output Feedback Consensus of Lipschitz Multiagents Using Lipschitz Nonlinear Protocol. *Rehman, A.U., +, TSMC Nov. 2021 7040-7050*
- Lyapunov Control Method for Mismatched Uncertainty and Gain Variation Compensation in Switched Systems. *Aghababa, M.P., TSMC July 2021 4227-4237*
- Multi-Kernel Online Reinforcement Learning for Path Tracking Control of Intelligent Vehicles. *Liu, J., +, TSMC Nov. 2021 6962-6975*
- Neural Integral Backstepping Hierarchical Sliding Mode Control for a Rideable Ballbot Under Uncertainties and Input Saturation. *Do, V., +, TSMC Nov. 2021 7214-7227*
- Neural Network-Based Sampled-Data Control for Switched Uncertain Nonlinear Systems. *Li, S., +, TSMC Sept. 2021 5437-5445*
- Neural Networks-Based Fault Tolerant Control of a Robot via Fast Terminal Sliding Mode. *Zhang, S., +, TSMC July 2021 4091-4101*
- Neuro-Fuzzy-Based Adaptive Dynamic Surface Control for Fractional-Order Nonlinear Strict-Feedback Systems With Input Constraint. *Song, S., +, TSMC June 2021 3575-3586*
- Nonfragile Observer-Based Control for Markovian Jump Systems Subject to Asynchronous Modes. *Tao, J., +, TSMC June 2021 3533-3540*
- Nonfragile Sampled-Data Filtering of Uncertain Fuzzy Systems With Time-Varying Delays. *Luo, J., +, TSMC Aug. 2021 4993-5004*

- Observer-Based Containment Control for a Class of Nonlinear Multiagent Systems With Uncertainties. *Yang, Y., +, TSMC Jan. 2021 588-600*
- Observer-Based Finite-Time Control for Distributed Path Maneuvering of Underactuated Unmanned Surface Vehicles With Collision Avoidance and Connectivity Preservation. *Gu, N., +, TSMC Aug. 2021 5105-5115*
- Observer-Based Sliding Mode Control for Stabilization of Mismatched Disturbance Systems With or Without Time Delays. *Zhao, Y., +, TSMC Dec. 2021 7337-7345*
- On Finite-Duration Convergent Attracting Laws. *Sun, M., +, TSMC Aug. 2021 5017-5029*
- Output Tracking of Uncertain Nonminimum Phase Systems by Experience Replay. *Ye, L., +, TSMC May 2021 3159-3167*
- Output-Based Containment Control for Uncertain Nonaffine Nonlinear Multiagent Systems. *Yang, Y., +, TSMC Oct. 2021 5992-6002*
- Output-Feedback Adaptive Control of Nonlinear Systems With Input-Output-Dependent Lower-Triangular Growth Rate: A Logic-Based Switching Approach. *Huang, C., +, TSMC Aug. 2021 4804-4813*
- Prescribed Performance Neuroadaptive Fault-Tolerant Compensation for MIMO Nonlinear Systems Under Extreme Actuator Failures. *Zhou, S., +, TSMC Sept. 2021 5427-5436*
- Quantized Decentralized Adaptive Neural Network PI Tracking Control for Uncertain Interconnected Nonlinear Systems With Dynamic Uncertainties. *Sun, H., +, TSMC May 2021 3111-3124*
- Reduced Adaptive Fuzzy Tracking Control for High-Order Stochastic Nonstrict Feedback Nonlinear System With Full-State Constraints. *Sun, W., +, TSMC March 2021 1496-1506*
- Reduced-Order Estimator-Based Efficient Fault-Tolerant Tracking Control Optimization for Constrained LPV Systems. *Han, K., +, TSMC Sept. 2021 5855-5866*
- Reduced-Order Observer-Based Adaptive Fuzzy Tracking Control Scheme of Stochastic Switched Nonlinear Systems. *Niu, B., +, TSMC July 2021 4566-4578*
- Repetitive Learning Control for Control-Affine Systems With Time Delays. *Li, H., +, TSMC Aug. 2021 5142-5152*
- Robust Adaptive Control for State-Constrained Nonlinear Systems With Input Saturation and Unknown Control Direction. *Wu, Y., +, TSMC Feb. 2021 1192-1202*
- Robust Adaptive Neural Control of Nonminimum Phase Hypersonic Vehicle Model. *Xu, B., +, TSMC Feb. 2021 1107-1115*
- Robust Exact Predictive Scheme for Output-Feedback Control of Input-Delay Systems With Unmatched Sinusoidal Disturbances. *Shi, S., +, TSMC Sept. 2021 5357-5366*
- Robust H_∞ Sliding Mode Controller Design of a Class of Time-Delayed Discrete Conic-Type Nonlinear Systems. *He, S., +, TSMC Feb. 2021 885-892*
- Robust Iterative Learning Control of 2-D Linear Discrete FMMII Systems Subject to Iteration-Dependent Uncertainties. *Wan, K., +, TSMC Oct. 2021 5949-5961*
- Robust LMI-Based H-Infinite Controller Integrating AFS and DYC of Autonomous Vehicles With Parametric Uncertainties. *Cheng, S., +, TSMC Nov. 2021 6901-6910*
- Robust Particle Filtering With Time-Varying Model Uncertainty and Inaccurate Noise Covariance Matrix. *Li, W., +, TSMC Nov. 2021 7099-7108*
- Robust Resilient Control Based on Multi-Approximator for the Uncertain Turbofan System With Unmeasured States and Disturbances. *Li, Y., +, TSMC Oct. 2021 6040-6049*
- Robust Time-Varying Formation Control for Tail-Sitters in Flight Mode Transitions. *Liu, D., +, TSMC July 2021 4102-4111*
- Second-Order Sliding Mode Controller Design Subject to an Upper-Triangular Structure. *Mei, K., +, TSMC Jan. 2021 497-507*
- Sliding Mode Control for a Class of Nonlinear Singular Systems With Partly Immeasurable Premise Variables. *Sun, X., +, TSMC April 2021 2433-2443*
- Sliding Mode Control for Markov Jump Systems With Delays via Asynchronous Approach. *Fang, M., +, TSMC May 2021 2916-2925*
- Sliding-Mode Observer-Based Fault Reconstruction for T-S Fuzzy Descriptor Systems. *Li, R., +, TSMC Aug. 2021 5046-5055*
- Small-Gain Technique-Based Adaptive Neural Output-Feedback Fault-Tolerant Control of Switched Nonlinear Systems With Unmodeled Dynamics. *Ma, L., +, TSMC Nov. 2021 7051-7062*
- Takagi-Sugeno Model-Based Reliable Sliding Mode Control of Descriptor Systems With Semi-Markov Parameters: Average Dwell Time Approach. *Jiang, B., +, TSMC March 2021 1549-1558*
- Targeting Posture Control With Dynamic Obstacle Avoidance of Constrained Uncertain Wheeled Mobile Robots Including Unknown Skidding and Slipping. *Lu, Q., +, TSMC Nov. 2021 6650-6659*
- The Set-Invariance Paradigm in Fuzzy Adaptive DSC Design of Large-Scale Nonlinear Input-Constrained Systems. *Lv, M., +, TSMC Feb. 2021 1035-1045*
- Trajectory Tracking Control of Autonomous Underwater Vehicle With Unknown Parameters and External Disturbances. *Yang, X., +, TSMC Feb. 2021 1054-1063*
- Twofold Sliding Controller Design for Uncertain Switched Nonlinear Systems. *Aghababa, M.P., TSMC Feb. 2021 1203-1214*
- Unknown Dynamics Estimator-Based Output-Feedback Control for Nonlinear Pure-Feedback Systems. *Na, J., +, TSMC June 2021 3832-3843*
- Uncertainty**
- H_∞ Output Anti-Disturbance Control of Stochastic Markov Jump Systems With Multiple Disturbances. *Shen, M., +, TSMC Dec. 2021 7633-7643*
- Adaptive Backstepping Control for Fractional-Order Nonlinear Systems With External Disturbance and Uncertain Parameters Using Smooth Control. *Li, X., +, TSMC Dec. 2021 7860-7869*
- Constraint-Based Control Design for Uncertain Underactuated Mechanical System: Leakage-Type Adaptation Mechanism. *Sun, H., +, TSMC Dec. 2021 7663-7674*
- Deep Q-Learning With Q-Matrix Transfer Learning for Novel Fire Evacuation Environment. *Sharma, J., +, TSMC Dec. 2021 7363-7381*
- Event-Triggered Model Predictive Control With a Statistical Learning. *Yoo, J., +, TSMC April 2021 2571-2581*
- Fractional-Order Finite-Time Super-Twisting Sliding Mode Control of Micro Gyroscope Based on Double-Loop Fuzzy Neural Network. *Fei, J., +, TSMC Dec. 2021 7692-7706*
- Global Finite Time Active Disturbance Rejection Control for Parallel Manipulators With Unknown Bounded Uncertainties. *Nguyen, V., +, TSMC Dec. 2021 7838-7849*
- Observer-Based Interval Type-2 $L_2 - L_\infty/H_\infty$ Mixed Fuzzy Control for Uncertain Nonlinear Systems Under Measurement Outliers. *Zhang, Z., +, TSMC Dec. 2021 7652-7662*
- Observer-Based Sampled-Data Model-Free Adaptive Control for Continuous-Time Nonlinear Nonaffine Systems With Input Rate Constraints. *Hui, Y., +, TSMC Dec. 2021 7813-7822*
- Observer-Based Sliding Mode Control for Stabilization of Mismatched Disturbance Systems With or Without Time Delays. *Zhao, Y., +, TSMC Dec. 2021 7337-7345*
- Serial-Parallel Estimation Model-Based Sliding Mode Control of MEMS Gyroscopes. *Zhang, R., +, TSMC Dec. 2021 7764-7775*
- Uncertainty handling**
- Measures of Scatter and Fisher Discriminant Analysis for Uncertain Data. *Tavakkol, B., +, TSMC March 2021 1690-1703*
- Perturbation Analysis of Evidential Reasoning Rule. *Tang, S., +, TSMC Aug. 2021 4895-4910*
- Underwater vehicles**
- 3-D Path Planning With Multiple Motions for a Gliding Robotic Dolphin. *Wang, J., +, TSMC May 2021 2904-2915*
- Bank of High-Gain Observers in Output Feedback Control: Robustness Analysis Against Measurement Noise. *Esfandiari, K., +, TSMC April 2021 2476-2487*
- Distributed Lyapunov-Based Model Predictive Formation Tracking Control for Autonomous Underwater Vehicles Subject to Disturbances. *Wei, H., +, TSMC Aug. 2021 5198-5208*
- Event-Triggered H_∞ Depth Control of Remotely Operated Underwater Vehicles. *Batmani, Y., +, TSMC Feb. 2021 1224-1232*
- Model Predictive Control-Based Depth Control in Gliding Motion of a Gliding Robotic Dolphin. *Wang, J., +, TSMC Sept. 2021 5466-5477*

Prediction-Based Seabed Terrain Following Control for an Underwater Vehicle-Manipulator System. *Cai, M., +, TSMC Aug. 2021 4751-4760*
 Robust Distributed Formation Controller Design for a Group of Unmanned Underwater Vehicles. *Liu, H., +, TSMC Feb. 2021 1215-1223*
 Trajectory Tracking Control of Autonomous Underwater Vehicle With Unknown Parameters and External Disturbances. *Yang, X., +, TSMC Feb. 2021 1054-1063*

Unmanned aerial vehicles

A Switching Method to Event-Triggered Output Feedback Control for Unmanned Aerial Vehicles Over Cognitive Radio Networks. *Wu, Z., +, TSMC Dec. 2021 7530-7541*

Unsupervised learning

Bidirectional Associative Memories: Unsupervised Hebbian Learning to Bidirectional Backpropagation. *Kosko, B., TSMC Jan. 2021 103-115*
 Deep Adversarial Domain Adaptation Model for Bearing Fault Diagnosis. *Liu, Z., +, TSMC July 2021 4217-4226*
 Graph Embedding-Based Dimension Reduction With Extreme Learning Machine. *Yang, L., +, TSMC July 2021 4262-4273*

Upper bound

Enhanced Branch-and-Bound Framework for a Class of Sequencing Problems. *Zhang, Z., +, TSMC May 2021 2726-2736*
 Global Predefined Time and Accuracy Adaptive Neural Network Control for Uncertain Strict-Feedback Systems With Output Constraint and Dead Zone. *Ni, J., +, TSMC Dec. 2021 7903-7918*
 Observer-Based PID Security Control for Discrete Time-Delay Systems Under Cyber-Attacks. *Zhao, D., +, TSMC June 2021 3926-3938*

Urban areas

Solving Optimization Problems Through Fully Convolutional Networks: An Application to the Traveling Salesman Problem. *Ling, Z., +, TSMC Dec. 2021 7475-7485*

V

Variable structure systems

A Disturbance Rejection Framework for Finite-Time and Fixed-Time Stabilization of Delayed Memristive Neural Networks. *Wang, L., +, TSMC Feb. 2021 905-915*
 A Finite-Time Control for a Pneumatic Cylinder Servo System Based on a Super-Twisting Extended State Observer. *Zhao, L., +, TSMC Feb. 2021 1164-1173*
 A New Fixed-Time Consensus Tracking Approach for Second-Order Multiagent Systems Under Directed Communication Topology. *Ni, J., +, TSMC April 2021 2488-2500*
 Adaptive Control for Three-Phase Power Converters With Disturbance Rejection Performance. *Yin, Y., +, TSMC Feb. 2021 674-685*
 Adaptive Fault-Tolerant Control for Attitude Tracking of Flexible Spacecraft With Limited Data Transmission. *Liu, Q., +, TSMC July 2021 4400-4408*
 Adaptive High-Order Terminal Sliding Mode Control Based on Time Delay Estimation for the Robotic Manipulators With Backlash Hysteresis. *Ahmed, S., +, TSMC Feb. 2021 1128-1137*
 Adaptive Neural Sliding Mode Control for Singular Semi-Markovian Jump Systems Against Actuator Attacks. *Cao, Z., +, TSMC March 2021 1523-1533*
 Adaptive Sliding Mode Fault-Tolerant Fuzzy Tracking Control With Application to Unmanned Marine Vehicles. *Wang, Y., +, TSMC Nov. 2021 6691-6700*
 Adaptive Type-2 FNN-Based Dynamic Sliding Mode Control of DC-DC Boost Converters. *Wang, J., +, TSMC April 2021 2246-2257*
 Command Filtered Backstepping-Based Attitude Containment Control for Spacecraft Formation. *Zhao, L., +, TSMC Feb. 2021 1278-1287*
 Cooperative Moving-Target Enclosing Control for Multiple Nonholonomic Vehicles Using Feedback Linearization Approach. *Peng, X., +, TSMC Aug. 2021 4929-4935*
 Coordinated Control of Underwater Biomimetic Vehicle-Manipulator System for Free Floating Autonomous Manipulation. *Cai, M., +, TSMC Aug. 2021 4793-4803*
 Coordination Tracking of Multiagent Systems With Active Replacement Strategy Under Node Failures. *Dong, L., +, TSMC Nov. 2021 6852-6862*

Design and Implementation of Observer-Based Sliding Mode for Underactuated Rendezvous System. *Du, C., +, TSMC Oct. 2021 6003-6014*
 Design of Observer-Based Event-Triggered Fuzzy ISMC for T-S Fuzzy Model and its Application to PMSG. *Mani, P., +, TSMC April 2021 2221-2231*
 Design of Sliding-Mode-Based Control for Nonlinear Systems With Mixed-Delays and Packet Losses Under Uncertain Missing Probability. *Hu, J., +, TSMC May 2021 3217-3228*
 Discrete-Time Sliding-Mode Controllers for MPTCP Networks. *Ignaciuk, P., +, TSMC Oct. 2021 6029-6039*
 Distributed Observer-Based Nash Equilibrium Seeking Algorithm for Quadratic Games With Nonlinear Dynamics. *Huang, B., +, TSMC Nov. 2021 7260-7268*
 Disturbance Observer-Based Adaptive Finite-Time Attitude Tracking Control for Rigid Spacecraft. *Zhang, J., +, TSMC Nov. 2021 6606-6613*
 Event-Triggered Sliding Mode Control of Switched Neural Networks With Mode-Dependent Average Dwell Time. *Yan, H., +, TSMC Feb. 2021 1233-1243*
 Exponential Stability of Markovian Jumping Systems via Adaptive Sliding Mode Control. *Xu, C., +, TSMC Feb. 2021 954-964*
 Fixed-Time Consensus Tracking for Second-Order Multiagent Systems Under Disturbance. *Liu, Y., +, TSMC Aug. 2021 4883-4894*
 Fully Distributed Finite-Time Consensus of Directed Multiquadcopter Systems via Pinning Control. *Zhou, Y., +, TSMC Aug. 2021 5080-5089*
 Fuzzy-Affine-Model-Based Output Feedback Dynamic Sliding Mode Controller Design of Nonlinear Systems. *Ji, W., +, TSMC March 2021 1652-1661*
 Input-Output Finite-Time Sliding-Mode Control for T-S Fuzzy Systems With Application. *Qi, W., +, TSMC Sept. 2021 5446-5455*
 IWSCR: An Intelligent Water Surface Cleaner Robot for Collecting Floating Garbage. *Kong, S., +, TSMC Oct. 2021 6358-6368*
 Lyapunov Control Method for Mismatched Uncertainty and Gain Variation Compensation in Switched Systems. *Aghababa, M.P., TSMC July 2021 4227-4237*
 Model Predictive Control-Based Depth Control in Gliding Motion of a Gliding Robotic Dolphin. *Wang, J., +, TSMC Sept. 2021 5466-5477*
 Nearly Optimal Integral Sliding-Mode Consensus Control for Multiagent Systems With Disturbances. *Zhang, H., +, TSMC Aug. 2021 4741-4750*
 Neural Integral Backstepping Hierarchical Sliding Mode Control for a Ridable Ballbot Under Uncertainties and Input Saturation. *Do, V., +, TSMC Nov. 2021 7214-7227*
 Neural Network-Based Adaptive Fault-Tolerant Control for Markovian Jump Systems With Nonlinearity and Actuator Faults. *Yang, H., +, TSMC June 2021 3687-3698*
 Neural Networks-Based Fault Tolerant Control of a Robot via Fast Terminal Sliding Mode. *Zhang, S., +, TSMC July 2021 4091-4101*
 Passivity-Based Fuzzy ISMC for Wind Energy Conversion Systems With PMSG. *Subramaniam, R., +, TSMC April 2021 2212-2220*
 Predefined-Time Consensus Tracking of Second-Order Multiagent Systems. *Ni, J., +, TSMC April 2021 2550-2560*
 Quantized Sliding Mode Control of Unmanned Marine Vehicles: Various Thruster Faults Tolerated With a Unified Model. *Hao, L., +, TSMC March 2021 2012-2026*
 Robust Adaptive Neural Control of Nonminimum Phase Hypersonic Vehicle Model. *Xu, B., +, TSMC Feb. 2021 1107-1115*
 Robust Exact Predictive Scheme for Output-Feedback Control of Input-Delay Systems With Unmatched Sinusoidal Disturbances. *Shi, S., +, TSMC Sept. 2021 5357-5366*
 Robust H_∞ Sliding Mode Controller Design of a Class of Time-Delayed Discrete Conic-Type Nonlinear Systems. *He, S., +, TSMC Feb. 2021 885-892*
 Second-Order Sliding Mode Controller Design Subject to an Upper-Triangular Structure. *Mei, K., +, TSMC Jan. 2021 497-507*
 Sliding Mode Control for a Class of Nonlinear Singular Systems With Partly Immeasurable Premise Variables. *Sun, X., +, TSMC April 2021 2433-2443*
 Sliding Mode Control for Markov Jump Systems With Delays via Asynchronous Approach. *Fang, M., +, TSMC May 2021 2916-2925*

Sliding Mode Controller Design for Conic-Type Nonlinear Semi-Markovian Jumping Systems of Time-Delayed Chua's Circuit. *Nie, R., +, TSMC April 2021 2467-2475*

Sliding-Mode Control for Fuzzy Stochastic Systems With Different Local-Input Matrices. *Wang, Y.Y., +, TSMC Aug. 2021 4761-4772*

Sliding-Mode Observer-Based Fault Reconstruction for T-S Fuzzy Descriptor Systems. *Li, R., +, TSMC Aug. 2021 5046-5055*

Stable Adaptive Controller Based on Generalized Regression Neural Networks and Sliding Mode Control for a Class of Nonlinear Time-Varying Systems. *Al-Mahasneh, A.J., +, TSMC April 2021 2525-2535*

Takagi–Sugeno Model-Based Reliable Sliding Mode Control of Descriptor Systems With Semi-Markov Parameters: Average Dwell Time Approach. *Jiang, B., +, TSMC March 2021 1549-1558*

Trajectory Tracking Control of Autonomous Underwater Vehicle With Unknown Parameters and External Disturbances. *Yang, X., +, TSMC Feb. 2021 1054-1063*

Twofold Sliding Controller Design for Uncertain Switched Nonlinear Systems. *Aghababa, M.P., TSMC Feb. 2021 1203-1214*

Vectors

Dissipativity-Based Asynchronous Control for 2-D Markov Jump Systems in Continuous-Time Domain. *Shen, Y., +, TSMC Sept. 2021 5349-5356*

Distance-Preserving Vector Space Embedding for Consensus Learning. *Nienkotter, A., +, TSMC Feb. 2021 1244-1257*

Force Sensorless Admittance Control for Teleoperation of Uncertain Robot Manipulator Using Neural Networks. *Yang, C., +, TSMC May 2021 3282-3292*

Nonlinear Pose Filters on the Special Euclidean Group SE(3) With Guaranteed Transient and Steady-State Performance. *Hashim, H.A., +, TSMC May 2021 2949-2962*

Solving Many-Objective Optimization Problems via Multistage Evolutionary Search. *Chen, H., +, TSMC June 2021 3552-3564*

Vehicle dynamics

A Linear Time-Varying Model Predictive Control-Based Motion Cueing Algorithm for Hexapod Simulation-Based Motion Platform. *Qazani, M.R.C., +, TSMC Oct. 2021 6096-6110*

Adaptive Vehicle Stability Control of Half-Car Active Suspension Systems With Partial Performance Constraints. *Zeng, Q., +, TSMC March 2021 1704-1714*

Cluster Event-Triggered Tracking Cooperative and Formation Control for Multivehicle Systems: An Extended Magnification Region Condition. *Wang, B., TSMC May 2021 3229-3239*

Curved Path Following for Unmanned Surface Vehicles With Heading Amendment. *Qu, Y., +, TSMC July 2021 4183-4192*

Output Homogenization and Synchronization of Heterogeneous Nonlinear Multiagent Networks. *Wei, Y., +, TSMC Dec. 2021 7295-7304*

RISE-Based Integrated Motion Control of Autonomous Ground Vehicles With Asymptotic Prescribed Performance. *Hu, C., +, TSMC Sept. 2021 5336-5348*

Robust Adaptive Neural Control of Nonminimum Phase Hypersonic Vehicle Model. *Xu, B., +, TSMC Feb. 2021 1107-1115*

Robust LMI-Based H-Infinite Controller Integrating AFS and DYC of Autonomous Vehicles With Parametric Uncertainties. *Cheng, S., +, TSMC Nov. 2021 6901-6910*

Robust Vehicle Driver Assistance Control for Handover Scenarios Considering Driving Performances. *Chen, Y., +, TSMC July 2021 4160-4170*

Time-Optimal Point Stabilization Control for WIP Vehicles Using Quasi-Convex Optimization and B-Spline Adaptive Interpolation Techniques. *Ning, Y., +, TSMC May 2021 3293-3303*

Vehicle routing

A Three-Layer Model for Studying Metro Network Dynamics. *Wu, X., +, TSMC May 2021 2665-2675*

Multiobjective Multiple Neighborhood Search Algorithms for Multiobjective Fleet Size and Mix Location-Routing Problem With Time Windows. *Wang, J., +, TSMC April 2021 2284-2298*

Two-Echelon Routing Problem for Parcel Delivery by Cooperated Truck and Drone. *Liu, Y., +, TSMC Dec. 2021 7450-7465*

Vehicles

Optimization-Based Control for Bearing-Only Target Search With a Mobile Vehicle. *Li, Z., +, TSMC July 2021 4149-4159*

Reliable Control for Vehicle Active Suspension Systems Under Event-Triggered Scheme With Frequency Range Limitation. *Fei, Z., +, TSMC March 2021 1630-1641*

Vehicular ad hoc networks

Toward Pre-Empted EV Charging Recommendation Through V2V-Based Reservation System. *Cao, Y., +, TSMC May 2021 3026-3039*

Velocity control

Distributed Velocity and Input Constrained Tracking Control of High-Speed Train Systems. *Lin, P., +, TSMC Dec. 2021 7882-7888*

Reliable Fuzzy H_∞ Control for Permanent Magnet Synchronous Motor Against Stochastic Actuator Faults. *Vadivel, R., +, TSMC April 2021 2232-2245*

Time-Efficient Indoor Navigation and Evacuation With Fastest Path Planning Based on Internet of Things Technologies. *Chen, L., +, TSMC May 2021 3125-3135*

Velocity measurement

Nonlinear Stochastic Estimators on the Special Euclidean Group SE(3) Using Uncertain IMU and Vision Measurements. *Hashim, H.A., +, TSMC Dec. 2021 7587-7600*

Vibration control

Active Fault-Tolerant Control for Discrete Vehicle Active Suspension Via Reduced-Order Observer. *Han, S., +, TSMC Nov. 2021 6701-6711*

Boundary Disturbance Observer-Based Control of a Vibrating Single-Link Flexible Manipulator. *Zhao, Z., +, TSMC April 2021 2382-2390*

Reliable Control for Vehicle Active Suspension Systems Under Event-Triggered Scheme With Frequency Range Limitation. *Fei, Z., +, TSMC March 2021 1630-1641*

Vibration and Position Control of Overhead Crane With Three-Dimensional Variable Length Cable Subject to Input Amplitude and Rate Constraints. *Xing, X., +, TSMC July 2021 4127-4138*

Vibrational signal processing

Deep Adversarial Domain Adaptation Model for Bearing Fault Diagnosis. *Liu, Z., +, TSMC July 2021 4217-4226*

Vibrations

Reinforcement Learning Control of a Flexible Two-Link Manipulator: An Experimental Investigation. *He, W., +, TSMC Dec. 2021 7326-7336*

Vibration and Position Control of Overhead Crane With Three-Dimensional Variable Length Cable Subject to Input Amplitude and Rate Constraints. *Xing, X., +, TSMC July 2021 4127-4138*

Virtual machines

An Intelligent Cloud Workflow Scheduling System With Time Estimation and Adaptive Ant Colony Optimization. *Jia, Y., +, TSMC Jan. 2021 634-649*

Virtual reality

Direct-Sense Brain–Computer Interfaces and Wearable Computers. *Lin, C., +, TSMC Jan. 2021 298-312*

Virtualization

Distributed Virtual Network Embedding System With Historical Archives and Set-Based Particle Swarm Optimization. *Song, A., +, TSMC Feb. 2021 927-942*

Visual databases

Fast Pore Comparison for High Resolution Fingerprint Images Based on Multiple Co-Occurrence Descriptors and Local Topology Similarities. *Xu, Y., +, TSMC Sept. 2021 5721-5731*

Visual evoked potentials

Classification of EEG Signals on VEP-Based BCI Systems With Broad Learning. *Gao, Z., +, TSMC Nov. 2021 7143-7151*

Visual servoing

Visual Servoing of a Flexible Aerial Refueling Boom With an Eye-in-Hand Camera. *Cui, L., +, TSMC Oct. 2021 6282-6292*

Voltage control

Adaptive Control for Three-Phase Power Converters With Disturbance Rejection Performance. *Yin, Y., +, TSMC Feb. 2021 674-685*

Adaptive Type-2 FNN-Based Dynamic Sliding Mode Control of DC–DC Boost Converters. *Wang, J., +, TSMC April 2021 2246-2257*

Robust Invariant Manifold-Based Output Voltage-Tracking Controller for DC/DC Boost Power Conversion Systems. *Kim, S.*, +, *TSMC March 2021 1582-1589*

W

Wastewater treatment

Intelligent Optimal Control System With Flexible Objective Functions and Its Applications in Wastewater Treatment Process. *Han, H.*, +, *TSMC June 2021 3464-3476*

Water supply

Secure State Estimation and Control of Cyber-Physical Systems: A Survey. *Ding, D.*, +, *TSMC Jan. 2021 176-190*

Water treatment

An Auto-Adjustable and Time-Consistent Model for Determining Coagulant Dosage Based on Operators' Experience. *Liu, Y.*, +, *TSMC Sept. 2021 5614-5625*

Wavelet transforms

Toward Optimal Risk-Averse Configuration for HESS With CGANs-Based PV Scenario Generation. *Yang, X.*, +, *TSMC March 2021 1779-1793*

Wearable computers

Direct-Sense Brain-Computer Interfaces and Wearable Computers. *Lin, C.*, +, *TSMC Jan. 2021 298-312*

Wearable computing

YSUY: Your Smartphone Understands You—Using Machine Learning to Address Fundamental Human Needs. *Akmandor, A.O.*, +, *TSMC Dec. 2021 7553-7568*

Wearable sensors

YSUY: Your Smartphone Understands You—Using Machine Learning to Address Fundamental Human Needs. *Akmandor, A.O.*, +, *TSMC Dec. 2021 7553-7568*

Web services

Location-Aware Deep Collaborative Filtering for Service Recommendation. *Zhang, Y.*, +, *TSMC June 2021 3796-3807*

Wheels

Distributed Formation Control of Nonholonomic Wheeled Mobile Robots Subject to Longitudinal Slippage Constraints. *Wang, Z.*, +, *TSMC May 2021 2992-3003*

Drivable Path Planning Using Hybrid Search Algorithm Based on E* and Bernstein-Bézier Motion Primitives. *Klančar, G.*, +, *TSMC Aug. 2021 4868-4882*

Time-Optimal Point Stabilization Control for WIP Vehicles Using Quasi-Convex Optimization and B-Spline Adaptive Interpolation Techniques. *Ning, Y.*, +, *TSMC May 2021 3293-3303*

Two Hybrid Multiobjective Motion Planning Schemes Synthesized by Recurrent Neural Networks for Wheeled Mobile Robot Manipulators. *Zhang, Z.*, +, *TSMC May 2021 3270-3281*

White noise

Logarithmic Hyperbolic Cosine Adaptive Filter and Its Performance Analysis. *Wang, S.*, +, *TSMC April 2021 2512-2524*

Optimal Control on Finite-Time Consensus of the Leader-Following Stochastic Multiagent System With Heuristic Method. *Xu, S.*, +, *TSMC June 2021 3617-3628*

Wind power plants

Fuzzy Sampled-Data Control for DFIG-Based Wind Turbine With Stochastic Actuator Failures. *Sharmila, V.*, +, *TSMC April 2021 2199-2211*

Passivity-Based Fuzzy ISMC for Wind Energy Conversion Systems With PMSG. *Subramaniam, R.*, +, *TSMC April 2021 2212-2220*

Stability and Stabilization for T-S Fuzzy Large-Scale Interconnected Power System With Wind Farm via Sampled-Data Control. *Shanmugam, L.*, +, *TSMC April 2021 2134-2144*

Wind turbines

Design of Interval Type-2 Fuzzy-Based Sampled-Data Controller for Nonlinear Systems Using Novel Fuzzy Lyapunov Functional and its Application to PMSM. *Shanmugam, L.*, +, *TSMC Jan. 2021 542-551*

Fuzzy Sampled-Data Control for DFIG-Based Wind Turbine With Stochastic Actuator Failures. *Sharmila, V.*, +, *TSMC April 2021 2199-2211*

Passivity-Based Fuzzy ISMC for Wind Energy Conversion Systems With PMSG. *Subramaniam, R.*, +, *TSMC April 2021 2212-2220*

Stability and Stabilization for T-S Fuzzy Large-Scale Interconnected Power System With Wind Farm via Sampled-Data Control. *Shanmugam, L.*, +, *TSMC April 2021 2134-2144*

Wireless channels

Distributed Fusion Estimation for Unstable Systems With Quantized Innovations. *Xiang, B.*, +, *TSMC Oct. 2021 6381-6387*

Resilient State Estimation of Cyber-Physical System With Multichannel Transmission Under DoS Attack. *Yuan, H.*, +, *TSMC Nov. 2021 6926-6937*

Wireless LAN

An Indoor Positioning Algorithm Based on Fingerprint and Mobility Prediction in RSS Fluctuation-Prone WLANs. *Lin, C.*, +, *TSMC May 2021 2926-2936*

Device-Free Orientation Detection Based on CSI and Visibility Graph. *Wu, Z.*, +, *TSMC July 2021 4433-4442*

Wireless networks

A Switching Method to Event-Triggered Output Feedback Control for Unmanned Aerial Vehicles Over Cognitive Radio Networks. *Wu, Z.*, +, *TSMC Dec. 2021 7530-7541*

Wireless sensor networks

A Prediction-Based Approach to Distributed Filtering With Missing Measurements and Communication Delays Through Sensor Networks. *Hu, J.*, +, *TSMC Nov. 2021 7063-7074*

An Efficient Lightweight Authentication Scheme With Adaptive Resilience of Asynchronization Attacks for Wireless Sensor Networks. *Xiong, L.*, +, *TSMC Sept. 2021 5626-5638*

Full Information Estimation for Time-Varying Systems Subject to Round-Robin Scheduling: A Recursive Filter Approach. *Zou, L.*, +, *TSMC March 2021 1904-1916*

On Feasibility of Multichannel Reconfigurable Wireless Sensor Networks Under Real-Time and Energy Constraints. *Aissa, Y.B.*, +, *TSMC March 2021 1446-1461*

Optimal Switching Attacks and Countermeasures in Cyber-Physical Systems. *Wu, G.*, +, *TSMC Aug. 2021 4825-4835*

Quick Convex Hull-Based Rendezvous Planning for Delay-Harsh Mobile Data Gathering in Disjoint Sensor Networks. *Liu, X.*, +, *TSMC June 2021 3844-3854*

Range-Based Reactive Deployment of Autonomous Drones for Optimal Coverage in Disaster Areas. *Savkin, A.V.*, +, *TSMC July 2021 4606-4610*

Resilient State Estimation of Cyber-Physical System With Multichannel Transmission Under DoS Attack. *Yuan, H.*, +, *TSMC Nov. 2021 6926-6937*

Workflow management software

An Intelligent Cloud Workflow Scheduling System With Time Estimation and Adaptive Ant Colony Optimization. *Jia, Y.*, +, *TSMC Jan. 2021 634-649*