# 2020 Index IEEE Transactions on Systems, Man, and Cybernetics: Systems Vol. 50

This index covers all technical items—papers, correspondence, reviews, etc.—that appeared in this periodical during 2020, and items from previous years that were commented upon or corrected in 2020. 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**

#### Α

- Abbaspour, A., Yen, K.K., Forouzannezhad, P., and Sargolzaei, A., A Neural Adaptive Approach for Active Fault-Tolerant Control Design in UAV; *TSMC* Sept. 2020 3401-3411
- Abellan, J., and Bosse, E., Critique of Recent Uncertainty Measures Developed Under the Evidence Theory and Belief Intervals; *TSMC March 2020 1186-1192*
- Abid, A., Khan, M.T., and Khan, M.S., Multidomain Features-Based GA Optimized Artificial Immune System for Bearing Fault Detection; *TSMC Jan.* 2020 348-359
- Abraham, A., see Agrawal, S., TSMC Nov. 2020 4688-4696
- Adigun, O., and Kosko, B., Bidirectional Backpropagation; TSMC May 2020 1982-1994
- Aghababa, M.P., Stabilization of Canonical Systems via Adaptive Chattering Free Sliding Modes With No Singularity Problems; *TSMC May 2020 1696-1703*
- Aghdam, A.G., see Asadi, M.M., TSMC March 2020 972-987
- Agrawal, S., Panda, R., and Abraham, A., A Novel Diagonal Class Entropy-Based Multilevel Image Thresholding Using Coral Reef Optimization; *TSMC Nov. 2020 4688-4696*
- Ahmadi, A., see Hwang, J., TSMC May 2020 1918-1931
- Al Ghazo, A.T., Ibrahim, M., Ren, H., and Kumar, R., A2G2V: Automatic Attack Graph Generation and Visualization and Its Applications to Computer and SCADA Networks; *TSMC Oct. 2020 3488-3498*
- Al-Fuqaha, A., see Mu, T., TSMC Nov. 2020 4183-4196
- Alamri, A., see Ferdous, J., TSMC Feb. 2020 455-467
- Alnowibet, K., see Hafidi, Y., TSMC Oct. 2020 3577-3591
- Alonso-Betanzos, A., see Fernandez-Francos, D., TSMC Feb. 2020 386-396
- Alqassem, I., Rahwan, I., and Svetinovic, D., The Anti-Social System Properties: Bitcoin Network Data Analysis; *TSMC Jan. 2020 21-31*
- Alsaadi, F.E., see Zhu, S., TSMC April 2020 1580-1589
- Alsaadi, F.E., see Luo, Y., TSMC May 2020 1964-1975
- Alsaadi, F.E., see Ma, L., TSMC Sept. 2020 3258-3268
- Alyazidi, N.M., see Mahmoud, M.S., TSMC March 2020 1134-1146
- Amjadifard, R., see Beheshtipour, Z., TSMC March 2020 1074-1082
- An, B., see Jiang, J., TSMC Feb. 2020 617-632
- An, J., see Gong, H., TSMC Nov. 2020 4746-4761
- An, V., Qu, Z., Crosby, F., and Roberts, R., A Triangulation-Based Coverage Path Planning; *TSMC June 2020 2157-2169*
- An, V., see An, V., TSMC June 2020 2157-2169
- An, W., see Mishra, M., TSMC Jan. 2020 318-335
- Anavatti, S.G., see Santoso, F., TSMC Aug. 2020 3059-3071
- Anderson, E., see Bayrak, A.E., TSMC July 2020 2716-2728
- Araabi, B.N., see Jahandari, S., TSMC May 2020 1865-1876

- Arefinia, E., Talebi, H.A., and Doustmohammadi, A., A Robust Adaptive Model Reference Impedance Control of a Robotic Manipulator With Actuator Saturation; *TSMC Feb. 2020 409-420*
- Asadi, M.M., Khosravi, M., Aghdam, A.G., and Blouin, S., Expected Convergence Rate to Consensus in Asymmetric Networks: Analysis and Distributed Estimation; *TSMC March 2020 972-987*
- Asemani, M.H., see Vafamand, N., TSMC Jan. 2020 233-244
- Atkins, E.M., see Nasir, A., TSMC March 2020 923-934
- Avola, D., Cinque, L., Foresti, G.L., Martinel, N., Pannone, D., and Piciarelli, C., A UAV Video Dataset for Mosaicking and Change Detection From Low-Altitude Flights; *TSMC June 2020 2139-2149*
- Avvari, G.V., see Sidoti, D., TSMC March 2020 1055-1073
- Ayala, D.F.M., see Sidoti, D., TSMC March 2020 1055-1073
- Ayala, D.F.M., see Mishra, M., TSMC Jan. 2020 318-335
- Azimi, V., Nguyen, T.T., Sharifi, M., Fakoorian, S.A., and Simon, D., Robust Ground Reaction Force Estimation and Control of Lower-Limb Prostheses: Theory and Simulation; *TSMC Aug. 2020 3024-3035*

#### В

- Babamir, S.M., see Majma, N., TSMC Sept. 2020 3344-3357
- Bae, J.W., Lee, J., Kim, D., Lee, K., Lee, J., Kim, K., and Moon, I., Layered Behavior Modeling via Combining Descriptive and Prescriptive Approaches: A Case Study of Infantry Company Engagement; *TSMC July* 2020 2551-2565
- Bai, Y., see Gong, H., TSMC Nov. 2020 4746-4761
- Bain, P.A., see Lee, H.K., TSMC Feb. 2020 686-699
- Balasingam, B., see Martinez Ayala, D.F., TSMC April 2020 1230-1241
- Baldi, S., see Liu, D., TSMC Nov. 2020 4160-4170
- Baldimtsi, F., see Yuan, Y., TSMC Jan. 2020 2-8
- Balusamy, B., see Khari, M., TSMC Jan. 2020 73-80
- Bandyopadhyay, S., see Basu, S., TSMC July 2020 2338-2350
- Bao, W., see Qi, Y., TSMC April 2020 1442-1454
- Baron, C., see Xue, R., TSMC Oct. 2020 3541-3553
- Basin, M.V., see Celentano, L., TSMC Aug. 2020 3010-3023
- Basin, M.V., see Sun, T., TSMC Sept. 2020 3358-3368
- Basin, M.V., Guerra-Avellaneda, F., and Shtessel, Y.B., Stock Management Problem: Adaptive Fixed-Time Convergent Continuous Controller Design; *TSMC Dec. 2020 4974-4983*
- Basu, S., Roy, S., Bandyopadhyay, S., and Das Bit, S., A Utility Driven Post Disaster Emergency Resource Allocation System Using DTN; *TSMC July* 2020 2338-2350
- Bayrak, A.E., Egilmez, M.M., Kuang, H., Li, X., Park, J.M., Umpfenbach, E., Anderson, E., Gorsich, D., Hu, J., Papalambros, P.Y., and Epureanu, B.I., A System-of-Systems Approach to the Strategic Feasibility of Modular Vehicle Fleets; *TSMC July 2020 2716-2728*
- Beheshtipour, Z., Khaloozadeh, H., and Amjadifard, R., On the Solvability of Feedback Complete Linearization of Nonlinear Stochastic Systems; *TSMC March* 2020 1074-1082
- BenZina, A., see Gammoudi, A., TSMC Dec. 2020 5092-5105
- Bera, A., and Bhattacharjee, D., Human Identification Using Selected Features From Finger Geometric Profiles; TSMC March 2020 747-761
- Bernardi, S., see Rodriguez, R.J., TSMC Aug. 2020 2834-2844
- Bhattacharjee, D., see Bera, A., TSMC March 2020 747-761
- Bian, G., see Zhou, X., TSMC Nov. 2020 4836-4849
- Bian, Y., see Yan, S., TSMC Dec. 2020 5058-5073
- Blouin, S., see Asadi, M.M., TSMC March 2020 972-987
- Bosse, E., see Abellan, J., TSMC March 2020 1186-1192
- Broomhead, P., see Danishvar, M., TSMC May 2020 1649-1662
- Bu, X., see Dong, H., TSMC Aug. 2020 2938-2947

Bu, X., Hou, Z., Yu, Q., and Yang, Y., Quantized Data Driven Iterative Learning Control for a Class of Nonlinear Systems With Sensor Saturation; *TSMC Dec. 2020 5119-5129* 

## С

- Cai, C., see Ma, L., TSMC Sept. 2020 3258-3268
- Cai, C., see Zhou, D., TSMC Nov. 2020 4787-4795
- Cai, G., see Wang, Y., TSMC June 2020 2093-2100
- Cai, W., see Zhong, J., TSMC Nov. 2020 4492-4505
- Cai, Y., see Choi, T., TSMC Dec. 2020 5049-5057
- Cai, Y., see Chan, H., TSMC Dec. 2020 4856-4869
- Cai, Z., see Gong, W., TSMC April 2020 1499-1513
- Cao, D., see Chen, L., TSMC Feb. 2020 397-408
- Cao, J., Wang, S., Li, B., Wang, X., Ding, Z., and Wang, F., Integrating Multisourced Texts in Online Business Intelligence Systems; *TSMC May 2020* 1638-1648
- Cao, J., see Wan, Y., TSMC Aug. 2020 2795-2803
- Cao, J., see Liu, Y., TSMC Sept. 2020 3290-3299
- Cao, J., see Zhuang, J., TSMC Nov. 2020 4807-4816
- Cao, J., see Li, K., TSMC Nov. 2020 4676-4687
- Cao, J., see Liu, D., TSMC Nov. 2020 4160-4170
- Cao, J., see Xu, X., TSMC Nov. 2020 4212-4223
- Cao, J., see Manivannan, R., TSMC Nov. 2020 4243-4255
- Cao, L., see Wang, S., TSMC March 2020 935-946
- Cao, L., Sun, F., Kotagiri, R., Huang, W., Cheng, W., and Liu, X., Real-Time Recurrent Tactile Recognition: Momentum Batch-Sequential Echo State Networks; *TSMC April 2020 1350-1361*
- Cao, Q., Tan, Y., Dong, R., and Shen, W., A Modeling Method of Electromagnetic Micromirror in Random Noisy Environment; *TSMC July 2020 2578-2587*
- Cao, Q., see Zhang, J., TSMC Nov. 2020 4472-4481
- Cao, Z., Chen, X., Yu, Y., Yu, J., Liu, X., Zhou, C., and Tan, M., Image Dynamics-Based Visual Servoing for Quadrotors Tracking a Target With a Nonlinear Trajectory Observer; *TSMC Jan. 2020 376-384*
- Carnevali, L., Tarani, F., and Vicario, E., Performability Evaluation of Water Distribution Systems During Maintenance Procedures; *TSMC May 2020* 1704-1720
- Catterson, V.M., see Galloway, G.S., TSMC April 2020 1252-1259
- Celentano, L., and Basin, M.V., An Approach to Design Robust Tracking Controllers for Nonlinear Uncertain Systems; *TSMC Aug. 2020 3010-3023*
- Chadli, M., see Xu, Y., TSMC April 2020 1455-1464
- Chai, T., see Li, M., TSMC March 2020 1208-1215
- Chai, T., see Fu, J., TSMC June 2020 2150-2156
- Chai, T., see Fan, J., TSMC Nov. 2020 4033-4042
- Chan, F.T.S., see Eltoukhy, A.E.E., *TSMC Dec. 2020 4919-4932*
- Chan, H., see Shi, X., TSMC April 2020 1622-1634
- Chan, H., Choi, T., Cai, Y., and Shen, B., Environmental Taxes in Newsvendor Supply Chains: A Mean-Downside-Risk Analysis; *TSMC Dec. 2020 4856-4869*
- Chandra, S., Hayashibe, M., and Thondiyath, A., Muscle Fatigue Induced Hand Tremor Clustering in Dynamic Laparoscopic Manipulation; *TSMC Dec.* 2020 5420-5431
- Chang, B., Chen, E., Zhu, F., Liu, Q., Xu, T., and Wang, Z., Maximum a Posteriori Estimation for Information Source Detection; TSMC June 2020 2242-2256
- Chang, E., see Lin, Y., TSMC April 2020 1429-1441
- Chang, T., and Svetinovic, D., Improving Bitcoin Ownership Identification Using Transaction Patterns Analysis; *TSMC Jan. 2020 9-20*
- Chang, X., Xiong, J., and Park, J.H., Estimation for a Class of Parameter-Controlled Tunnel Diode Circuits; *TSMC Nov. 2020 4697-4707*
- Che, A., see Wu, P., TSMC June 2020 2187-2197
- Che, W., Su, H., Shi, P., and Wu, Z., Nonfragile and Nonsynchronous Synthesis of Reachable Set for Bernoulli Switched Systems; *TSMC Feb. 2020 726-731* Chen, B., see Shang, Y., *TSMC July 2020 2436-2444*

- Chen, B., Li, Y., Dong, J., Lu, N., and Qin, J., Common Spatial Patterns Based on the Quantized Minimum Error Entropy Criterion; *TSMC Nov. 2020 4557-4568*
- Chen, C., see Ding, L., TSMC July 2020 2512-2523
- Chen, C., see Wang, X., TSMC Aug. 2020 2948-2957
- Chen, C., Ulya, M.A., and Mancasari, U.A., A Study of Product Quality and Marketing Efforts in Closed-Loop Supply Chains With Remanufacturing; *TSMC Dec. 2020 4870-4881*
- Chen, E., see Chang, B., TSMC June 2020 2242-2256
- Chen, G., see Wen, G., TSMC June 2020 2293-2304
- Chen, G., see Wang, Y., TSMC June 2020 2093-2100
- Chen, G., Sun, J., and Chen, J., Passivity-Based Robust Sampled-Data Control for Markovian Jump Systems; *TSMC July 2020 2671-2684*
- Chen, G., see Kong, Q., TSMC Oct. 2020 3817-3827
- Chen, G., see Fu, D., TSMC Dec. 2020 4894-4904
- **Chen, H.,** Shi, K., Zhong, S., and Liu, X., Error State Convergence on Master– Slave Generalized Uncertain Neural Networks Using Robust Nonlinear  $H_{\infty}$ Control Theory; *TSMC June 2020 2042-2055*
- Chen, H., Liu, X., Liu, X., and Zhong, S., A Hybrid Proportional Impulsive Plus Integral Robust Control Algorithm for H∞ Stabilization; *TSMC Dec. 2020* 5211-5220
- Chen, H., Shi, P., and Lim, C., Synchronization Control for Neutral Stochastic Delay Markov Networks via Single Pinning Impulsive Strategy; *TSMC Dec.* 2020 5406-5419
- Chen, J., see Chen, L., TSMC Feb. 2020 397-408
- Chen, J., Liu, Y., Ding, F., and Zhu, Q., Gradient-Based Particle Filter Algorithm for an ARX Model With Nonlinear Communication Output; *TSMC June 2020 2198-2207*
- Chen, J., see Chen, G., TSMC July 2020 2671-2684
- Chen, J., see Chu, H., TSMC July 2020 2456-2465
- Chen, J., Shu, T., Li, T., and de Silva, C.W., Deep Reinforced Learning Tree for Spatiotemporal Monitoring With Mobile Robotic Wireless Sensor Networks; *TSMC Nov. 2020 4197-4211*
- Chen, K., Wang, J., Zhang, Y., and Liu, Z., Leader-Following Consensus for a Class of Nonlinear Strick-Feedback Multiagent Systems With State Time-Delays; *TSMC July 2020 2351-2361*
- Chen, L., Fan, L., Chen, J., Cao, D., and Wang, F., A Full Density Stereo Matching System Based on the Combination of CNNs and Slanted-Planes; *TSMC Feb. 2020 397-408*
- Chen, L., Wu, M., Zhou, M., Liu, Z., She, J., and Hirota, K., Dynamic Emotion Understanding in Human–Robot Interaction Based on Two-Layer Fuzzy SVR-TS Model; *TSMC Feb. 2020 490-501*
- Chen, L., see Fan, G., TSMC April 2020 1260-1274
- Chen, L., see Lai, X., TSMC July 2020 2534-2540
- Chen, L., see Zhao, J., TSMC Nov. 2020 4773-4786
- Chen, M.Z.Q., see Wen, G., TSMC June 2020 2293-2304
- Chen, Q., see Peng, Y., TSMC Nov. 2020 4109-4122
- Chen, S., see Liang, L., TSMC April 2020 1242-1251
- Chen, S., see Liu, P., TSMC Oct. 2020 3741-3756
- Chen, W., see Liu, Z., TSMC March 2020 815-828
- Chen, X., Wang, X., and Gong, K., The Effect of Bidimensional Power Structure on Supply Chain Decisions and Performance; *TSMC March 2020 1095-1110*
- Chen, X., Yu, J., Wu, Z., Meng, Y., and Kong, S., Toward a Maneuverable Miniature Robotic Fish Equipped With a Novel Magnetic Actuator System; *TSMC July 2020 2327-2337*
- Chen, X., see Wang, X., TSMC Aug. 2020 2948-2957
- Chen, X., see Wang, W., TSMC Nov. 2020 4123-4134
- Chen, X., see Leng, J., TSMC Jan. 2020 182-192
- Chen, X., see Cao, Z., TSMC Jan. 2020 376-384
- Chen, Y., and Shi, Y., Distributed Consensus of Linear Multiagent Systems: Laplacian Spectra-Based Method; *TSMC Feb. 2020 700-706*
- Chen, Y., see Ma, Z., TSMC July 2020 2421-2435
- Chen, Y., see Shen, C., TSMC July 2020 2501-2511
- Chen, Y., see Wang, H., TSMC Aug. 2020 2883-2896
- Chen, Y., see Karoui, O., TSMC Oct. 2020 3613-3627
- Chen, Y., see Wang, Q., TSMC Nov. 2020 4506-4512

C

- Chen, Y., Hsu, J., Hung, C., Wu, J., Lai, F., and Kuo, S., Surgical Wounds Assessment System for Self-Care; *TSMC Dec. 2020 5076-5091*
- Chen, Z., Zhang, B., Zhang, Y., and Zhang, Z., Dissipative Fuzzy Filtering for Nonlinear Networked Systems With Limited Communication Links; *TSMC March* 2020 962-971
- Chen, Z., see Zhang, J., TSMC Nov. 2020 4513-4529
- Cheng, H., Wei, J., Lin, C., and Ye, J., Detecting Seam-Carved Image by Extreme Learning Machines Using Patch Analysis Method, Jury Voting, and Combinatorial Fusion; *TSMC May 2020 1850-1864*
- Cheng, L., see Liu, H., TSMC April 2020 1549-1558
- Cheng, W., see Cao, L., TSMC April 2020 1350-1361
- Cheng, Y., see Wang, X., TSMC May 2020 1897-1908
- Cheng, Y., see Geng, H., TSMC July 2020 2599-2611
- Cheng, Y., see Wang, X., TSMC Aug. 2020 2948-2957
- Cheng, Y., Xie, Y., Zhao, D., Ji, P., and Tao, F., Scalable Hypernetwork-Based Manufacturing Services Supply Demand Matching Toward Industrial Internet Platforms; *TSMC Dec. 2020 5000-5014*
- Chillet, D., see Gammoudi, A., TSMC Dec. 2020 5092-5105
- Choi, C., see Kwon, S.J., TSMC March 2020 1147-1160
- Choi, M., see Hwang, J., TSMC May 2020 1918-1931
- Choi, S.H., and Kim, T.G., A Heuristic Approach for Selecting Best-Subset Including Ranking Within the Subset; *TSMC Oct. 2020 3852-3862*
- Choi, S.H., and Kim, T.G., Pareto Set Selection for Multiobjective Stochastic Simulation Model; *TSMC Nov. 2020* 4256-4269
- Choi, T., see Guo, S., TSMC Feb. 2020 673-685
- Choi, T., see Wang, M., TSMC Nov. 2020 4598-4610
- Choi, T., Guest Editorial to the Special Issue on Logistics and Supply Chain Systems Engineering; TSMC Dec. 2020 4852-4855
- Choi, T., Zhang, J., and Cai, Y., Consumer-to-Consumer Digital-Product-Exchange in the Sharing Economy System With Risk Considerations: Will Digital-Product-Developers Suffer?; *TSMC Dec.* 2020 5049-5057
- Choi, T., see Wen, X., TSMC Dec. 2020 4933-4947
- Choi, T., see Hosseini-Motlagh, S., TSMC Dec. 2020 4882-4893
- Choi, T., see Wang, X., TSMC Dec. 2020 4948-4958
- Choi, T., see Chan, H., TSMC Dec. 2020 4856-4869
- Chou, J., see Tsai, J., TSMC March 2020 1193-1207
- Chou, J., see Tsai, J., TSMC April 2020 1300-1309
- Chou, P., see Tsai, J., TSMC March 2020 1193-1207
- Christensen, J.H., see Dai, W., TSMC March 2020 851-862
- Chu, E.T., see Lin, Y., TSMC April 2020 1429-1441
- Chu, F., see Wu, P., TSMC June 2020 2187-2197
- Chu, H., Yi, B., Zhang, G., and Zhang, W., Performance Improvement of Consensus Tracking for Linear Multiagent Systems With Input Saturation: A Gain Scheduled Approach; *TSMC March 2020 734-746*
- Chu, H., Chen, J., Yue, D., and Dou, C., Observer-Based Consensus of Nonlinear Multiagent Systems With Relative State Estimate Constraints; *TSMC* July 2020 2456-2465
- Chu, H., Gao, L., Yue, D., and Dou, C., Consensus of Lipschitz Nonlinear Multiagent Systems With Input Delay via Observer-Based Truncated Prediction Feedback; *TSMC Oct. 2020 3784-3794*
- Chung, F., see Zhang, Y., TSMC Aug. 2020 2996-3009
- Chung, S., see Wen, X., TSMC Dec. 2020 4933-4947
- Chung, S.H., see Eltoukhy, A.E.E., TSMC Dec. 2020 4919-4932
- Cinque, L., see Avola, D., TSMC June 2020 2139-2149
- Contreras, W., and Ziavras, S., Low-Cost, Efficient Output-Only Infrastructure Damage Detection With Wireless Sensor Networks; *TSMC March 2020* 1003-1012
- Crosby, F., see An, V., TSMC June 2020 2157-2169
- Cross, J., see Kohn, W., TSMC June 2020 2083-2092
- Cui, L., Wu, J., Pi, D., Zhang, P., and Kennedy, P., Dual Implicit Mining-Based Latent Friend Recommendation; *TSMC May 2020 1663-1678*
- Cui, R., see Guo, X., TSMC Nov. 2020 4068-4077
- Cui, S., see Duan, L., TSMC Dec. 2020 5255-5270

# D

Dababneh, F., see Sun, Z., TSMC June 2020 2101-2112

- Dai, W., Pang, C., Vyatkin, V., Christensen, J.H., and Guan, X., Discrete-Event-Based Deterministic Execution Semantics With Timestamps for Industrial Cyber-Physical Systems; *TSMC March 2020 851-862*
- Dai, W., see Wang, Y., TSMC Aug. 2020 2926-2937
- Danishvar, M., Mousavi, A., and Broomhead, P., EventiC: A Real-Time Unbiased Event-Based Learning Technique for Complex Systems; *TSMC May* 2020 1649-1662
- Daoui, C., see Lefebvre, D., TSMC June 2020 2273-2283
- Das Bit, S., see Basu, S., TSMC July 2020 2338-2350
- De Cillis, F., Faramondi, L., Inderst, F., Marsella, S., Marzoli, M., Pascucci, F., and Setola, R., Hybrid Indoor Positioning System for First Responders; *TSMC Feb. 2020 468-479*
- de la Rosa, E., and Yu, W., Data-Driven Fuzzy Modeling Using Restricted Boltzmann Machines and Probability Theory; *TSMC July 2020 2316-2326*
- de Lima Neto, F.B., see Martins, D.M.L., TSMC March 2020 863-870
- de Silva, C.W., see Chen, J., TSMC Nov. 2020 4197-4211
- Deans, M.C., see Pham, H.X., TSMC April 2020 1537-1548
- Deng, F., see Xing, M., TSMC Jan. 2020 203-210
- Deng, S., Wang, B., Huang, S., Yue, C., Zhou, J., and Wang, G., Self-Adaptive Framework for Efficient Stream Data Classification on Storm; *TSMC Jan.* 2020 123-136
- Deng, Y., Wu, J., Xiao, Y., Zhang, M., Yu, Y., and Zhang, Y., Optimal Disintegration Strategy With Heterogeneous Costs in Complex Networks; *TSMC* Aug. 2020 2905-2913
- Deng, Z., see Ding, L., TSMC July 2020 2512-2523
- Deng, Z., see Li, S., TSMC Nov. 2020 4171-4182
- Diaz-Morales, R., and Navia-Vazquez, A., Distributed Nonlinear Semiparametric Support Vector Machine for Big Data Applications on Spark Frameworks; *TSMC Nov. 2020 4664-4675*
- Ding, D., see Li, J., TSMC May 2020 1909-1917
- Ding, D., see Zhao, D., TSMC June 2020 2170-2180
- Ding, D., see Wei, G., TSMC Nov. 2020 4611-4622
- Ding, F., see Ma, J., TSMC March 2020 1035-1045
- Ding, F., see Chen, J., TSMC June 2020 2198-2207
- Ding, L., Li, S., Gao, H., Chen, C., and Deng, Z., Adaptive Partial Reinforcement Learning Neural Network-Based Tracking Control for Wheeled Mobile Robotic Systems; *TSMC July 2020 2512-2523*
- Ding, L., see Ge, X., TSMC Sept. 2020 3112-3125
- Ding, L., see Han, Q., TSMC Sept. 2020 3108-3111
- Ding, L., see Li, S., TSMC Nov. 2020 4171-4182
- Ding, L., see Li, W., TSMC Jan. 2020 336-347
- Ding, S.X., see Zhao, Z., TSMC Feb. 2020 514-524
- Ding, S.X., see Liu, D., TSMC July 2020 2398-2407
- Ding, X., see Meng, D., TSMC May 2020 1885-1896
- Ding, Y., see Huang, L., TSMC Nov. 2020 4283-4294
- Ding, Z., see Cao, J., TSMC May 2020 1638-1648
- Ding, Z., see Wu, Z., TSMC Sept. 2020 3252-3257
- Ding, Z., see Wang, M., TSMC Oct. 2020 3628-3645
- Ding, Z., see Wang, M., TSMC Oct. 2020 3598-3612
- Dong, C., see Shi, X., TSMC April 2020 1622-1634
- Dong, H., Gao, S., Ning, B., Tang, T., Li, Y., and Valavanis, K.P., Error-Driven Nonlinear Feedback Design for Fuzzy Adaptive Dynamic Surface Control of Nonlinear Systems With Prescribed Tracking Performance; *TSMC March* 2020 1013-1023
- Dong, H., Bu, X., Wang, Z., and Han, F., Finite-Horizon Distributed State Estimation Under Randomly Switching Topologies and Redundant Channels; *TSMC Aug. 2020 2938-2947*
- Dong, J., see Zhai, D., TSMC May 2020 1840-1849
- Dong, J., see Wang, J., TSMC May 2020 1777-1793
- Dong, J., see Xiao, S., TSMC Sept. 2020 3448-3455
- Dong, J., see Chen, B., TSMC Nov. 2020 4557-4568
- Dong, J., see Huang, X., TSMC Jan. 2020 89-99
- Dong, M., see Zhou, Z., TSMC Jan. 2020 43-57
- Dong, R., see Cao, Q., TSMC July 2020 2578-2587

Dong, R., Tan, Y., and Tan, Q., Mirror Angle Tuning of Electromagnetic Micro-Mirrors With Oscillation Compensation; *TSMC Aug. 2020 2969-2977* 

Dong, X., see Yu, J., TSMC April 2020 1465-1475

- Dong, X., see Hua, Y., TSMC Oct. 2020 3795-3803
- Dong, Z., see Wang, X., TSMC Dec. 2020 5338-5350
- Donida Labati, R., Genovese, A., Piuri, V., Scotti, F., and Sforza, G., A Decision Support System for Wind Power Production; *TSMC Jan. 2020 290-304*
- Dotoli, M., and Epicoco, N., Integrated Network Design of Agile Resource-Efficient Supply Chains Under Uncertainty; *TSMC Nov. 2020 4530-4544*
- Dou, C., see Chu, H., TSMC July 2020 2456-2465
- Dou, C., see Chu, H., TSMC Oct. 2020 3784-3794
- Doustmohammadi, A., see Arefinia, E., TSMC Feb. 2020 409-420
- Dragicevic, T., see Vafamand, N., TSMC Jan. 2020 233-244
- Du, H., see Huang, C., TSMC June 2020 2257-2272
- Du, J., Hu, X., and Sun, Y., Adaptive Robust Nonlinear Control Design for Course Tracking of Ships Subject to External Disturbances and Input Saturation; *TSMC Jan. 2020 193-202*
- Du, S., Liu, T., and Ho, D.W.C., Dynamic Event-Triggered Control for Leader-Following Consensus of Multiagent Systems; *TSMC Sept. 2020 3243-3251*
- Du, S., see Li, Q., TSMC Dec. 2020 4905-4918
- Duan, H., Liu, C., Zeng, Q., and Zhou, M., Refinement-Based Hierarchical Modeling and Correctness Verification of Cross-Organization Collaborative Emergency Response Processes; *TSMC Aug. 2020 2845-2859*
- Duan, H., see Zeng, Q., TSMC Oct. 2020 3685-3700
- Duan, J., see Tang, H., TSMC March 2020 762-770
- Duan, L., Cui, S., Qiao, Y., and Yuan, B., Clustering Based on Supervised Learning of Exemplar Discriminative Information; *TSMC Dec. 2020 5255-5270*
- Duan, N., see Min, H., TSMC Feb. 2020 480-489
- Duan, P., Liu, K., Huang, N., and Duan, Z., Event-Based Distributed Tracking Control for Second-Order Multiagent Systems With Switching Networks; *TSMC Sept. 2020 3220-3230*
- Duan, X., see Zhao, C., TSMC Aug. 2020 2978-2988
- Duan, Z., see Lv, Y., TSMC April 2020 1602-1609
- Duan, Z., see Duan, P., TSMC Sept. 2020 3220-3230
- Dunn, G.L., see Lee, C., TSMC April 2020 1384-1394
- Dutta, A., see Fu, D., TSMC Dec. 2020 4894-4904

## E

- Egilmez, M.M., see Bayrak, A.E., TSMC July 2020 2716-2728
- Eltoukhy, A.E.E., Wang, Z.X., Chan, F.T.S., Chung, S.H., Ma, H., and Wang, X.P., Robust Aircraft Maintenance Routing Problem Using a Turn-Around Time Reduction Approach; *TSMC Dec.* 2020 4919-4932
- Entezari-Maleki, R., Etesami, S.E., Ghorbani, N., Niaki, A.A., Sousa, L., and Movaghar, A., Modeling and Evaluation of Service Composition in Commercial Multiclouds Using Timed Colored Petri Nets; *TSMC March 2020* 947-961
- Epicoco, N., see Dotoli, M., TSMC Nov. 2020 4530-4544
- Epureanu, B.I., see Bayrak, A.E., TSMC July 2020 2716-2728
- Esteban, P., see Xue, R., TSMC Oct. 2020 3541-3553
- Etesami, S.E., see Entezari-Maleki, R., TSMC March 2020 947-961

# F

- Fakoorian, S.A., see Azimi, V., TSMC Aug. 2020 3024-3035
- Fan, B., see Lu, X., TSMC Dec. 2020 5162-5171
- Fan, G., Chen, L., Yu, H., and Liu, D., Modeling and Analyzing Dynamic Fault-Tolerant Strategy for Deadline Constrained Task Scheduling in Cloud Computing; *TSMC April 2020 1260-1274*
- Fan, J., Wu, Q., Jiang, Y., Chai, T., and Lewis, F.L., Model-Free Optimal Output Regulation for Linear Discrete-Time Lossy Networked Control Systems; *TSMC Nov. 2020 4033-4042*
- Fan, L., see Chen, L., TSMC Feb. 2020 397-408
- Fang, B., see Liu, H., TSMC July 2020 2466-2474
- Fang, L., see Lai, Z., TSMC Nov. 2020 4349-4361
- Fang, M., see Xu, Y., TSMC April 2020 1455-1464
- Fang, X., see Zhang, Y., TSMC June 2020 2068-2082

- Fanti, M.P., Mangini, A.M., Pedroncelli, G., and Ukovich, W., Fleet Sizing for Electric Car Sharing Systems in Discrete Event System Frameworks; *TSMC March* 2020 1161-1177
- Fanti, M.P., see Wisniewski, R., TSMC Oct. 2020 3484-3487
- Faramondi, L., see De Cillis, F., TSMC Feb. 2020 468-479
- Fay, T., see Galloway, G.S., TSMC April 2020 1252-1259
- Feil-Seifer, D., see Pham, H.X., TSMC April 2020 1537-1548
- Feng, G., see Li, Y., TSMC May 2020 1956-1963
- Feng, G., see Ma, J., TSMC Sept. 2020 3231-3242
- Feng, G., see Li, Z., TSMC Dec. 2020 5317-5329
- Feng, J., see Tang, Z., TSMC Dec. 2020 5395-5405
- Feng, J., Li, F., Xu, C., and Zhong, R.Y., Data-Driven Analysis for RFID-Enabled Smart Factory: A Case Study; TSMC Jan. 2020 81-88
- Feng, L., see Zhong, J., TSMC Nov. 2020 4492-4505
- Feng, Y., Xing, K., Zhou, M., and Liu, H., Liveness Analysis and Deadlock Control for Automated Manufacturing Systems With Multiple Resource Requirements; *TSMC Feb. 2020 525-538*
- Feng, Y., Xing, K., Zhou, M., Wang, X., and Liu, H., Robust Deadlock Prevention for Automated Manufacturing Systems With Unreliable Resources by Using General Petri Nets; *TSMC Oct. 2020 3515-3527*
- Ferdous, J., Mollah, M.P., Razzaque, M.A., Hassan, M.M., Alamri, A., Fortino, G., and Zhou, M., Optimal Dynamic Pricing for Trading-Off User Utility and Operator Profit in Smart Grid; *TSMC Feb. 2020 455-467*
- Fernandez-Francos, D., Fontenla-Romero, O., and Alonso-Betanzos, A., One-Class Convex Hull-Based Algorithm for Classification in Distributed Environments; *TSMC Feb. 2020 386-396*
- Florez, A.J., and Giraldo, L.F., Structural Sparsity in Networked Control Systems; TSMC Dec. 2020 5152-5161
- Fontenla-Romero, O., see Fernandez-Francos, D., TSMC Feb. 2020 386-396
- Foresti, G.L., see Avola, D., TSMC June 2020 2139-2149
- Forouzannezhad, P., see Abbaspour, A., TSMC Sept. 2020 3401-3411
- Fortino, G., see Ferdous, J., TSMC Feb. 2020 455-467
- Friedel, J.E., Holzer, T.H., and Sarkani, S., Development, Optimization, and Validation of Unintended Radiated Emissions Processing System for Threat Identification; *TSMC June 2020 2208-2219*
- Fu, D., Zhang, H., Dutta, A., and Chen, G., A Cooperative Distributed Model Predictive Control Approach to Supply Chain Management; *TSMC Dec.* 2020 4894-4904
- Fu, H., see Wang, W., TSMC Nov. 2020 4123-4134
- Fu, J., Tian, F., Chai, T., Jing, Y., Li, Z., and Su, C., Motion Tracking Control Design for a Class of Nonholonomic Mobile Robot Systems; *TSMC June* 2020 2150-2156
- Fu, X., see Liu, Z., TSMC March 2020 815-828
- Fu, Y., Zhou, M., Guo, X., and Qi, L., Scheduling Dual-Objective Stochastic Hybrid Flow Shop With Deteriorating Jobs via Bi-Population Evolutionary Algorithm; *TSMC Dec. 2020 5037-5048*
- Fukui, R., see Wan, W., TSMC Jan. 2020 270-280

## G

- Galloway, G.S., Catterson, V.M., Love, C., Robb, A., and Fay, T., Modeling and Interpretation of Tidal Turbine Vibration Through Weighted Least Squares Regression; *TSMC April 2020 1252-1259*
- Gammoudi, A., BenZina, A., Khalgui, M., and Chillet, D., Energy-Efficient Scheduling of Real-Time Tasks in Reconfigurable Homogeneous Multicore Platforms; *TSMC Dec.* 2020 5092-5105
- Gan, J., Wang, J., Yu, H., Li, Q., and Shi, Z., Online Rail Surface Inspection Utilizing Spatial Consistency and Continuity; *TSMC July 2020 2741-2751* Gan, Y., see Jiao, T., *TSMC June 2020 2056-2067*
- Gall, 1., see jiao, 1., *ISMC June* 2020 2050-2007
- Gandomi, A.H., see Khari, M., TSMC Jan. 2020 73-80
- Gao, D.W., see Su, H., TSMC Nov. 2020 3996-4008
- Gao, H., see Ding, L., TSMC July 2020 2512-2523
- Gao, H., see Li, S., *TSMC Nov. 2020 4171-4182* Gao, H., see Li, Z., *TSMC Nov. 2020 4224-4232*
- Gao, H., see Li, W., TSMC Jan. 2020 336-347
- Gao, K., see Yang, F., TSMC Oct. 2020 3646-3657
- Gao, K., see Tang, T., TSMC Oct. 2020 5040 5057
- Gao, L., see Chu, H., TSMC Oct. 2020 3784-3794

- Gao, L., see Zhang, B., TSMC Dec. 2020 4984-4999
- Gao, R., see Yuan, H., TSMC Jan. 2020 111-122
- Gao, S., see Dong, H., TSMC March 2020 1013-1023
- Gao, X., see Liu, X., TSMC Sept. 2020 3382-3390
- Gao, Z., see Mu, C., TSMC Nov. 2020 4056-4067
- Garg, A.K., see Khari, M., TSMC Jan. 2020 73-80
- Garratt, M.A., see Santoso, F., TSMC Aug. 2020 3059-3071
- Garvey, S., and Koziol, S., Robot Path Planning Using Analog Circuit Phase Delay; TSMC Oct. 2020 3898-3911
- Gasmi, M., Mosbahi, O., Khalgui, M., Gomes, L., and Li, Z., Performance Optimization of Reconfigurable Real-Time Wireless Sensor Networks; *TSMC* July 2020 2623-2637
- Ge, B., see Li, J., TSMC Dec. 2020 5172-5179
- Ge, Q., Wei, Z., Liu, M., Yu, J., and Wen, C., Adaptive Quantized Estimation Fusion Using Strong Tracking Filtering and Variational Bayesian; *TSMC March* 2020 899-910
- Ge, S., see Ping, Z., TSMC Aug. 2020 2989-2995
- Ge, S.S., see Liu, X., TSMC July 2020 2705-2715
- Ge, X., Han, Q., Ding, L., Wang, Y., and Zhang, X., Dynamic Event-Triggered Distributed Coordination Control and its Applications: A Survey of Trends and Techniques; *TSMC Sept. 2020 3112-3125*
- Ge, X., see Han, Q., TSMC Sept. 2020 3108-3111
- Geng, H., Liang, Y., and Cheng, Y., Target State and Markovian Jump Ionospheric Height Bias Estimation for OTHR Tracking Systems; *TSMC July* 2020 2599-2611
- Geng, K., see Li, Y., TSMC Nov. 2020 4326-4338
- Geng, Z., see Peng, X., TSMC April 2020 1610-1621
- Genovese, A., see Donida Labati, R., TSMC Jan. 2020 290-304
- Ghorbani, N., see Entezari-Maleki, R., TSMC March 2020 947-961
- Giraldo, L.F., see Florez, A.J., TSMC Dec. 2020 5152-5161
- Gomes, L., see Gasmi, M., TSMC July 2020 2623-2637
- Gomes, L., see Wisniewski, R., TSMC Oct. 2020 3484-3487
- Gong, H., Li, R., An, J., Bai, Y., and Li, K., Quantitative Modeling and Analytical Calculation of Anelasticity for a Cyber-Physical System; *TSMC Nov.* 2020 4746-4761
- Gong, K., see Chen, X., TSMC March 2020 1095-1110
- Gong, W., Wang, Y., Cai, Z., and Wang, L., Finding Multiple Roots of Nonlinear Equation Systems via a Repulsion-Based Adaptive Differential Evolution; *TSMC April 2020 1499-1513*
- Gong, W., see Liao, Z., TSMC April 2020 1590-1601
- Gorsich, D., see Bayrak, A.E., TSMC July 2020 2716-2728
- Grichi, H., Mosbahi, O., Khalgui, M., and Li, Z., An Extended Object Constraint Language for Adaptive Discrete Event Systems With Application to Reconfigurable Wireless Sensor Networks; *TSMC Oct. 2020 3562-3576*
- Grimble, M.J., see Pang, Y., TSMC June 2020 2129-2138
- Guan, X., see Dai, W., TSMC March 2020 851-862
- Guan, X., see Shen, C., TSMC July 2020 2501-2511
- Guan, X., see Liu, X., TSMC July 2020 2693-2704
- Guan, X., see Hua, C., TSMC Nov. 2020 4309-4317
- Guan, X., see Tan, F., TSMC Dec. 2020 5369-5385
- Guan, Y., see Wu, Y., TSMC Sept. 2020 3210-3219
- Guan, Z., see Lei, Y., TSMC Sept. 2020 3181-3188
- Guan, Z., see Zhou, D., TSMC Nov. 2020 4787-4795
- Guang, Y., see Wu, Y., TSMC June 2020 2120-2128
- Guerra-Avellaneda, F., see Basin, M.V., TSMC Dec. 2020 4974-4983
- Gui, W., see Xie, S., TSMC July 2020 2408-2420
- Guo, D., see Liu, H., TSMC July 2020 2466-2474
- Guo, D., see Li, Z., TSMC Dec. 2020 5244-5254
- Guo, J., see Wan, Y., TSMC Aug. 2020 2795-2803
- Guo, L., see Yao, X., TSMC April 2020 1476-1485
- Guo, L., see Yuan, Y., TSMC Sept. 2020 3391-3400
- Guo, L., see Wang, C., TSMC Nov. 2020 4708-4718
- Guo, R., see Zhang, Z., TSMC Aug. 2020 3072-3085
- Guo, S., Choi, T., Shen, B., and Jung, S., Coordination and Enhancement Schemes for Quick Response Mass Customization Supply Chains With Consumer Returns and Salvage Value Considerations; *TSMC Feb. 2020 673-685*

- Guo, X., Yan, W., and Cui, R., Integral Reinforcement Learning-Based Adaptive NN Control for Continuous-Time Nonlinear MIMO Systems With Unknown Control Directions; *TSMC Nov. 2020 4068-4077*
- Guo, X., see Fu, Y., TSMC Dec. 2020 5037-5048
- Guo, Z., Liu, L., and Wang, J., Multistability of Recurrent Neural Networks With Piecewise-Linear Radial Basis Functions and State-Dependent Switching Parameters; *TSMC Nov. 2020* 4458-4471
- Gupta, R., see Khari, M., TSMC Jan. 2020 73-80

# Н

- Ha, M., Wang, D., and Liu, D., Event-Triggered Adaptive Critic Control Design for Discrete-Time Constrained Nonlinear Systems; *TSMC Sept. 2020 3158-3168*
- Hadjiefthymiades, S., see Kolomvatsos, K., TSMC April 2020 1417-1428
- Hafidi, Y., Kahloul, L., Khalgui, M., Li, Z., Alnowibet, K., and Qu, T., On Methodology for the Verification of Reconfigurable Timed Net Condition/Event Systems; *TSMC Oct. 2020 3577-3591*
- Hamker, F., see Tran, D.H., TSMC Oct. 2020 3701-3712
- Han, F., see Dong, H., TSMC Aug. 2020 2938-2947
- Han, H., Wu, X., and Qiao, J., Design of Robust Sliding Mode Control With Adaptive Reaching Law; TSMC Nov. 2020 4415-4424
- Han, J., see Liu, X., TSMC Sept. 2020 3382-3390
- Han, L., see Hua, Y., TSMC Oct. 2020 3795-3803
- Han, M., Lyu, Z., Qiu, T., and Xu, M., A Review on Intelligence Dehazing and Color Restoration for Underwater Images; *TSMC May 2020 1820-1832*
- Han, Q., see Ge, X., TSMC Sept. 2020 3112-3125
- Han, Q., Ding, L., and Ge, X., Special Issue on Event-Triggered Control and Filtering of Distributed Networked Systems; *TSMC Sept. 2020 3108-3111*
- Han, S., see Yu, J., TSMC July 2020 2445-2455
- Han, W., Lu, X.S., Zhou, M., Shen, X., Wang, J., and Xu, J., An Evaluation and Optimization Methodology for Efficient Power Plant Programs; *TSMC Feb.* 2020 707-716
- Han, X., see Sidoti, D., TSMC March 2020 1055-1073
- Han, X., see Mishra, M., TSMC Jan. 2020 318-335
- Hansen, J.A., see Sidoti, D., TSMC March 2020 1055-1073
- Hansen, J.A., see Mishra, M., TSMC Jan. 2020 318-335
- Hao, K., see Huang, L., TSMC Nov. 2020 4283-4294
- Hassan, M.M., see Ferdous, J., TSMC Feb. 2020 455-467
- Hayashibe, M., see Chandra, S., TSMC Dec. 2020 5420-5431
- He, D., see Zhou, D., TSMC Nov. 2020 4787-4795
- He, H., see Zhong, X., TSMC July 2020 2362-2374
- He, H., see Yang, X., TSMC Aug. 2020 2870-2882
- He, H., see Wang, Z., TSMC Aug. 2020 2815-2827
- He, H., see Yang, X., TSMC Sept. 2020 3145-3157
- He, H., see Wang, Y., TSMC Oct. 2020 3713-3725
- He, H., see Yang, X., TSMC Nov. 2020 4043-4055
- He, H., see Zhu, Y., TSMC Nov. 2020 3959-3971
- He, H., see Yang, X., TSMC Jan. 2020 58-72
- He, K., Yang, H., Jin, Y., Hu, Q., and Ji, P., The Orthogonal Packing and Scheduling Problem: Model, Heuristic, and Benchmark; *TSMC April 2020 1372-1383*
- He, S., see Wu, Y., TSMC June 2020 2120-2128
- He, S., see Wu, Y., TSMC Sept. 2020 3210-3219
- He, W., see He, X., TSMC Dec. 2020 5285-5295
- He, X., He, W., Liu, Y., Wang, Y., Li, G., and Wang, Y., Robust Adaptive Control of an Offshore Ocean Thermal Energy Conversion System; *TSMC Dec. 2020* 5285-5295
- He, Y., see Zhi, Y., TSMC Oct. 2020 3936-3942
- He, Y., Sun, X., Liu, J., and Wu, Y., Stability Analysis for Homogeneous Hybrid Systems With Delays; *TSMC Oct. 2020 3554-3561*
- Hipel, K.W., see Zhu, Z., TSMC June 2020 2231-2241
- Hirasawa, K., see Song, T., TSMC Nov. 2020 4020-4032
- Hirota, K., see Chen, L., TSMC Feb. 2020 490-501
- Ho, D.W., see Tang, Y., TSMC Sept. 2020 3300-3310
- Ho, D.W.C., see Du, S., TSMC Sept. 2020 3243-3251
- Holzer, T.H., see Friedel, J.E., TSMC June 2020 2208-2219

- Hosseini-Motlagh, S., Nematollahi, M., Johari, M., and Choi, T., Reverse Supply Chain Systems Coordination Across Multiple Links With Duopolistic Third Party Collectors; TSMC Dec. 2020 4882-4893
- Hou, J., Wang, D., Liu, D., and Zhang, Y., Model-Free H<sub>x</sub> Optimal Tracking Control of Constrained Nonlinear Systems via an Iterative Adaptive Learning Algorithm; TSMC Nov. 2020 4097-4108
- Hou, X., see Yue, M., TSMC Dec. 2020 5180-5188
- Hou, Y., see Zhu, Q., TSMC Dec. 2020 5015-5023
- Hou, Z., see Liu, H., TSMC April 2020 1549-1558
- Hou, Z., see Zhou, X., TSMC Nov. 2020 4836-4849
- Hou, Z., see Bu, X., TSMC Dec. 2020 5119-5129
- Hsu, J., see Chen, Y., TSMC Dec. 2020 5076-5091
- Hu, B., see Zhou, D., TSMC Nov. 2020 4787-4795
- Hu, C., see Liao, Z., TSMC April 2020 1590-1601
- Hu, C., see Hu, X., TSMC June 2020 2017-2028
- Hu, G., see Nguyen, L., TSMC Dec. 2020 5306-5316
- Hu, H., see Qiu, Z., TSMC April 2020 1331-1342
- Hu, H., see Ping, Z., TSMC Aug. 2020 2989-2995
- Hu, H., see Yue, H., TSMC Oct. 2020 3528-3540
- Hu, H., see Yang, Y., TSMC Oct. 2020 3670-3684 Hu, H., see Wang, X., TSMC Oct. 2020 3499-3514
- Hu, H., see Wang, X., TSMC Dec. 2020 5024-5036
- Hu, J., see Bayrak, A.E., TSMC July 2020 2716-2728
- Hu, Q., see He, K., TSMC April 2020 1372-1383
- Hu, Q., see Wang, C., TSMC Nov. 2020 4708-4718
- Hu, T., see Lu, X., TSMC Dec. 2020 5162-5171
- Hu, X., Zhao, Y., Xu, B., and Hu, C., Robust Adaptive Fuzzy Tracking Control for Uncertain MIMO Nonlinear Nonminimum Phase System; TSMC June 2020 2017-2028
- Hu, X., see Du, J., TSMC Jan. 2020 193-202
- Hu, Z., see Xing, M., TSMC Jan. 2020 203-210
- Hua, C., Liu, S., Li, Y., and Guan, X., Distributed Adaptive Output Feedback Leader-Following Consensus Control for Nonlinear Multiagent Systems; TSMC Nov. 2020 4309-4317
- Hua, Y., Dong, X., Han, L., Li, Q., and Ren, Z., Finite-Time Time-Varying Formation Tracking for High-Order Multiagent Systems With Mismatched Disturbances; TSMC Oct. 2020 3795-3803
- Huang, B., see Ma, J., TSMC March 2020 1035-1045
- Huang, C., Lin, Y., and Yeng, L.C., System Reliability Assessment of a Fast Retransmit Through k Separate Minimal Paths Under the Latency; TSMC April 2020 1395-1405
- Huang, C., Naghdy, F., and Du, H., Delta Operator-Based Model Predictive Control With Fault Compensation for Steer-by-Wire Systems; TSMC June 2020 2257-2272
- Huang, D., Ma, X., and Zhang, S., Performance Analysis of the Raft Consensus Algorithm for Private Blockchains; TSMC Jan. 2020 172-181
- Huang, H., see Zheng, W., TSMC Dec. 2020 4959-4973
- Huang, L., Li, Y., and Tong, S., Fuzzy Adaptive Output Feedback Control for MIMO Switched Nontriangular Structure Nonlinear Systems With Unknown Control Directions; TSMC Feb. 2020 550-564
- Huang, L., Ding, Y., Zhou, M., Jin, Y., and Hao, K., Multiple-Solution Optimization Strategy for Multirobot Task Allocation; TSMC Nov. 2020 4283-4294
- Huang, N., see Duan, P., TSMC Sept. 2020 3220-3230
- Huang, S., see Deng, S., TSMC Jan. 2020 123-136
- Huang, T., see Xu, Y., TSMC April 2020 1455-1464
- Huang, T., see Li, H., TSMC July 2020 2612-2622
- Huang, T., see Luo, B., TSMC Nov. 2020 3948-3958
- Huang, T., see Wang, X., TSMC Dec. 2020 5189-5200
- Huang, T., see Xu, Y., TSMC Jan. 2020 211-219
- Huang, T., see Xiong, W., TSMC Jan. 2020 245-255
- Huang, W., see Cao, L., TSMC April 2020 1350-1361
- Huang, W., see Wang, X., TSMC May 2020 1897-1908
- Huang, W., see Wan, Y., TSMC Aug. 2020 2795-2803
- Huang, W., see Liu, D., TSMC Nov. 2020 4160-4170

Huang, X., and Dong, J., Reliable Leader-to-Follower Formation Control of Multiagent Systems Under Communication Quantization and Attacks; TSMC Jan. 2020 89-99

Huang, Y., see Ping, Z., TSMC Aug. 2020 2989-2995

Hung, C., see Chen, Y., TSMC Dec. 2020 5076-5091

Huynh, V., see Nguyen, V., TSMC April 2020 1318-1330

Hwang, J., Kim, J., Ahmadi, A., Choi, M., and Tani, J., Dealing With Large-Scale Spatio-Temporal Patterns in Imitative Interaction Between a Robot and a Human by Using the Predictive Coding Framework; TSMC May 2020 1918-1931

I

Ibrahim, M., see Al Ghazo, A.T., TSMC Oct. 2020 3488-3498 Inderst, F., see De Cillis, F., TSMC Feb. 2020 468-479

## J

- Jahandari, S., Kalhor, A., and Araabi, B.N., Online Forecasting of Synchronous Time Series Based on Evolving Linear Models; TSMC May 2020 1865-1876
- Jang, S., Tan, G., Toh, K., and Teoh, A.B.J., Online Heterogeneous Face Recognition Based on Total-Error-Rate Minimization; TSMC April 2020 1286-1299
- Ji, H., see Ma, J., TSMC Sept. 2020 3231-3242
- Ji, L., Yu, X., and Li, C., Group Consensus for Heterogeneous Multiagent Systems in the Competition Networks With Input Time Delays; TSMC Nov. 2020 4655-4663
- Ji, P., see He, K., TSMC April 2020 1372-1383
- Ji, P., see Cheng, Y., TSMC Dec. 2020 5000-5014
- Jia, Y., Kwong, S., and Wang, R., Applying Exponential Family Distribution to Generalized Extreme Learning Machine; TSMC May 2020 1794-1804
- Jiang, B., see Xiao, P., TSMC March 2020 911-922
- Jiang, B., see Liu, C., TSMC Aug. 2020 2804-2814
- Jiang, B., see Liu, Y., TSMC Sept. 2020 3290-3299
- Jiang, B., see Zheng, A., TSMC Jan. 2020 149-158
- Jiang, B., see Lu, N., TSMC Jan. 2020 137-148
- Jiang, C., see Wang, M., TSMC Oct. 2020 3628-3645
- Jiang, C., see Wang, M., TSMC Oct. 2020 3598-3612
- Jiang, G., see Rong, L., TSMC Dec. 2020 5361-5368
- Jiang, H., see Zhang, H., TSMC Feb. 2020 432-441
- Jiang, H., see Zhang, H., TSMC Sept. 2020 3169-3180
- Jiang, J., An, B., Jiang, Y., and Lin, D., Context-Aware Reliable Crowdsourcing in Social Networks; TSMC Feb. 2020 617-632
- Jiang, J., see Zhang, G., TSMC March 2020 785-801
- Jiang, J., see Mo, Y., TSMC Oct. 2020 3912-3924
- Jiang, J., see Li, J., TSMC Dec. 2020 5172-5179
- Jiang, K., Zhang, H., Karimi, H.R., Lin, J., and Song, L., Simultaneous Input and State Estimation for Integrated Motor-Transmission Systems in a Controller Area Network Environment via an Adaptive Unscented Kalman Filter; TSMC April 2020 1570-1579
- Jiang, L., Liu, J., Zhou, D., Zhou, Q., Yang, X., and Yu, G., Predicting the Evolution of Hot Topics: A Solution Based on the Online Opinion Dynamics Model in Social Network; TSMC Oct. 2020 3828-3840
- Jiang, Y., see Jiang, J., TSMC Feb. 2020 617-632
- Jiang, Y., see Fan, J., TSMC Nov. 2020 4033-4042
- Jiao, T., Gan, Y., Xiao, G., and Wonham, W.M., Exploiting Symmetry of Discrete-Event Systems by Relabeling and Reconfiguration; TSMC June 2020 2056-2067
- Jin, L., see Xiao, L., TSMC Dec. 2020 5233-5243
- Jin, Q., Wu, S., Zhang, R., and Lu, R., Improved Minmax Control for Industrial Networked Systems Over Imperfect Communication; TSMC April 2020 1310-1317
- Jin, Q., Wu, S., and Zhang, R., Improved Constrained Model Predictive Tracking Control for Networked Coke Furnace Systems Over Uncertainty and Communication Loss; TSMC May 2020 1877-1884
- Jin, Q., see Wang, Y., TSMC Aug. 2020 2926-2937
- Jin, Q., see Song, T., TSMC Nov. 2020 4020-4032

Huang, H., see Wang, J., TSMC Nov. 2020 4732-4745

- Jin, Y., see He, K., TSMC April 2020 1372-1383
- Jin, Y., see Huang, L., TSMC Nov. 2020 4283-4294
- Jing, Y., see Fu, J., TSMC June 2020 2150-2156
- Jing, Y., and Yang, G., Fuzzy Adaptive Quantized Fault-Tolerant Control of Strict-Feedback Nonlinear Systems With Mismatched External Disturbances; *TSMC Sept. 2020 3424-3434*
- Jo, S., see Kaongoen, N., TSMC March 2020 1178-1185
- Johari, M., see Hosseini-Motlagh, S., TSMC Dec. 2020 4882-4893

Jung, S., see Guo, S., TSMC Feb. 2020 673-685

## Κ

- Kahloul, L., see Hafidi, Y., TSMC Oct. 2020 3577-3591
- Kalhor, A., see Jahandari, S., TSMC May 2020 1865-1876
- Kang, B., see Kwon, S.J., TSMC March 2020 1147-1160
- Kaongoen, N., Yu, M., and Jo, S., Two-Factor Authentication System Using P300 Response to a Sequence of Human Photographs; *TSMC March 2020* 1178-1185
- Karatkevich, A.G., and Wisniewski, R., A Polynomial-Time Algorithm to Obtain State Machine Cover of Live and Safe Petri Nets; *TSMC Oct. 2020* 3592-3597
- Karimi, H.R., see Jiang, K., TSMC April 2020 1570-1579
- Karoui, O., Chen, Y., Li, Z., Wu, N., and Khalgui, M., On Hierarchical Construction of the State Space of an Automated Manufacturing System Modeled With Petri Nets; *TSMC Oct. 2020 3613-3627*
- Kaviarasan, B., see Sakthivel, R., TSMC Feb. 2020 646-655
- Kaynak, O., Luo, H., and Yin, S., Guest Editorial Special Issue on Fault Diagnosis and Adaptive Fault-Tolerant Control for Automatic Control Systems; *TSMC Sept. 2020 3330-3332*
- Kellmeyer, D.L., see Sidoti, D., TSMC March 2020 1055-1073
- Kennedy, P., see Cui, L., TSMC May 2020 1663-1678
- Khalgui, M., see Gasmi, M., TSMC July 2020 2623-2637
- Khalgui, M., see Grichi, H., TSMC Oct. 2020 3562-3576
- Khalgui, M., see Karoui, O., TSMC Oct. 2020 3613-3627
- Khalgui, M., see Hafidi, Y., TSMC Oct. 2020 3577-3591
- Khalgui, M., see Gammoudi, A., TSMC Dec. 2020 5092-5105
- Khaloozadeh, H., see Beheshtipour, Z., TSMC March 2020 1074-1082
- Khan, M.S., see Abid, A., TSMC Jan. 2020 348-359
- Khan, M.T., see Abid, A., TSMC Jan. 2020 348-359
- Khari, M., Garg, A.K., Gandomi, A.H., Gupta, R., Patan, R., and Balusamy, B., Securing Data in Internet of Things (IoT) Using Cryptography and Steganography Techniques; *TSMC Jan. 2020 73-80*
- Khayatiyan, A., see Vafamand, N., TSMC Jan. 2020 233-244
- Khooban, M.H., see Vafamand, N., TSMC Jan. 2020 233-244
- Khosravi, M., see Asadi, M.M., TSMC March 2020 972-987
- Kilgour, D.M., see Zhu, Z., TSMC June 2020 2231-2241
- Kim, D., see Bae, J.W., TSMC July 2020 2551-2565
- Kim, J., see Hwang, J., TSMC May 2020 1918-1931
- Kim, J., Target Following and Close Monitoring Using an Unmanned Surface Vehicle; TSMC Nov. 2020 4233-4242
- Kim, J.H., Lee, J., and Oh, Y., A Theoretical Framework for Stability Regions for Standing Balance of Humanoids Based on Their LIPM Treatment; *TSMC Nov. 2020 4569-4586*
- Kim, K., see Bae, J.W., TSMC July 2020 2551-2565
- Kim, T.G., see Choi, S.H., TSMC Oct. 2020 3852-3862
- Kim, T.G., see Choi, S.H., TSMC Nov. 2020 4256-4269
- Kim, T.G.K., see Kwon, S.J., TSMC March 2020 1147-1160
- King, J., Prasad, M., Tsai, T., Ming, Y., and Lin, C., Influence of Time Pressure on Inhibitory Brain Control During Emergency Driving; *TSMC Nov. 2020* 4408-4414
- Kleinman, D.L., see Mishra, M., TSMC Jan. 2020 318-335
- Kobayashi, E., see Li, B.N., TSMC March 2020 1111-1121
- Kohn, W., see Placek, P.C., TSMC April 2020 1362-1371
- Kohn, W., Placek, P.C., Zabinsky, Z.B., and Cross, J., An Incremental Probability Model for Dynamic Systems; *TSMC June 2020 2083-2092*
- Kolmanovsky, I., see Nasir, A., TSMC March 2020 923-934

- Kolomvatsos, K., and Hadjiefthymiades, S., Predictive Intelligence in Analytics Aggregation of Partial Ordered Subsets; *TSMC April 2020 1417-1428*
- Konar, A., see Sadhu, A.K., TSMC Aug. 2020 2779-2794
- Kong, L., see Zhang, Z., TSMC Dec. 2020 5106-5118
- Kong, Q., Mao, W., Chen, G., and Zeng, D., Exploring Trends and Patterns of Popularity Stage Evolution in Social Media; *TSMC Oct. 2020 3817-3827*
- Kong, S., see Chen, X., TSMC July 2020 2327-2337
- Kosko, B., see Adigun, O., TSMC May 2020 1982-1994
- Kotagiri, R., see Cao, L., TSMC April 2020 1350-1361
- Kou, G., see Li, T., *TSMC April 2020 1218-1229* Koziol, S., see Garvey, S., *TSMC Oct. 2020 3898-3911*
- **Kozma, R.,** Editorial; *TSMC June 2020 1998*
- Kuang, H., see Bayrak, A.E., *TSMC July 2020 2716-2728*
- Kumar, R., see Al Ghazo, A.T., TSMC Oct. 2020 3488-3498
- Kumar, R., see Wisniewski, R., TSMC Oct. 2020 3484-3487
- Kuo, S., see Chen, Y., TSMC Dec. 2020 5076-5091
- Kurths, J., see Wang, X., TSMC Dec. 2020 5189-5200
- Kwon, S.J., Kang, B., Choi, C., and Kim, T.G.K., Adaptive Discrete Event Simulation Systems to Embrace Changes of Requirements Using Event Control Models; *TSMC March 2020 1147-1160*
- Kwong, S., see Jia, Y., TSMC May 2020 1794-1804

## L

- La, H.M., see Pham, H.X., TSMC April 2020 1537-1548
- Lai, F., see Chen, Y., TSMC Dec. 2020 5076-5091
- Lai, J., Lu, X., Yu, X., Monti, A., and Zhou, H., Distributed Voltage Regulation for Cyber-Physical Microgrids With Coupling Delays and Slow Switching Topologies; *TSMC Jan. 2020 100-110*
- Lai, X., see Wang, Y., TSMC March 2020 1046-1054
- Lai, X., Zhang, P., Wang, Y., Chen, L., and Wu, M., Continuous State Feedback Control Based on Intelligent Optimization for First-Order Nonholonomic Systems; *TSMC July 2020 2534-2540*
- Lai, Y., see Lin, Y., TSMC April 2020 1429-1441
- Lai, Z., Yang, P., Fang, L., and Wu, X., Reweighted Price Relative Tracking System for Automatic Portfolio Optimization; *TSMC Nov. 2020 4349-4361*
- Laili, Y., see Li, F., TSMC July 2020 2386-2397
- Laitila, P., and Virtanen, K., On Theoretical Principle and Practical Applicability of Ranked Nodes Method for Constructing Conditional Probability Tables of Bayesian Networks; *TSMC May 2020 1943-1955*
- Lambert, J.H., see Yuan, Y., TSMC Jan. 2020 2-8
- Lathkar, M.S., Shendge, P.D., and Phadke, S.B., Active Control of Uncertain Seat Suspension System Based on a State and Disturbance Observer; *TSMC March* 2020 840-850
- Le, J., Zhang, D., Nankun, M., Liao, X., and Yang, F., Anonymous Privacy Preservation Based on *m*-Signature and Fuzzy Processing for Real-Time Data Release; *TSMC Oct. 2020 3871-3883*
- Le, J., see Zhang, D., TSMC Jan. 2020 32-42
- Leclercq, E., see Lefebvre, D., TSMC Sept. 2020 3369-3381
- Lee, C., Dunn, G.L., Oakley, I., and Ryu, J., Visual Guidance for a Spatial Discrepancy Problem of in Encountered-Type Haptic Display; *TSMC April* 2020 1384-1394
- Lee, H.K., Li, J., Musa, A.J., Bain, P.A., and Nelson, K., Modeling and Analysis of Patient Transitions in Community Hospitals: A Systems Approach; *TSMC Feb. 2020 686-699*
- Lee, J., see Bae, J.W., TSMC July 2020 2551-2565
- Lee, J., see Bae, J.W., TSMC July 2020 2551-2565
- Lee, J., see Kim, J.H., TSMC Nov. 2020 4569-4586
- Lee, K., see Bae, J.W., TSMC July 2020 2551-2565
- Lee, T., see Zhang, D., TSMC May 2020 1833-1839
- Lefebvre, D., and Daoui, C., Control Design for Bounded Partially Controlled TPNs Using Timed Extended Reachability Graphs and MDP; *TSMC June* 2020 2273-2283
- Lefebvre, D., Rachidi, S., Leclercq, E., and Pigne, Y., Diagnosis of Structural and Temporal Faults for *k*-Bounded Non-Markovian Stochastic Petri Nets; *TSMC Sept. 2020 3369-3381*

- Lei, Y., Wang, Y., Guan, Z., and Shen, Y., Event-Triggered Adaptive Output Regulation for a Class of Nonlinear Systems With Unknown Control Direction; TSMC Sept. 2020 3181-3188
- Leng, J., Yan, D., Liu, Q., Xu, K., Zhao, J.L., Shi, R., Wei, L., Zhang, D., and Chen, X., ManuChain: Combining Permissioned Blockchain With a Holistic Optimization Model as Bi-Level Intelligence for Smart Manufacturing; TSMC Jan. 2020 182-192
- Lewis, F.L., see Fan, J., TSMC Nov. 2020 4033-4042
- Lewis, F.L., see Liu, D., TSMC Nov. 2020 3944-3947
- Lewis, F.L., see Song, R., TSMC Nov. 2020 4009-4019
- Li, B., see Cao, J., TSMC May 2020 1638-1648
- Li, B., see Zheng, W., TSMC Dec. 2020 4959-4973
- Li, B.N., Shan, X., Xiang, K., Kobayashi, E., Wang, M., and Li, X., OpenMRE: A Numerical Platform for MRE Study; TSMC March 2020 1111-1121
- Li, C., see Ji, L., TSMC Nov. 2020 4655-4663
- Li, C., see Wang, X., TSMC Dec. 2020 5189-5200
- Li, C., see Zheng, A., TSMC Jan. 2020 149-158
- Li, D., see Song, T., TSMC Nov. 2020 4020-4032
- Li, F., Shen, Y., Wang, L., and Wang, Y., Consensus of Upper-Triangular Multiagent Systems With Sampled and Delayed Measurements via Output Feedback; TSMC Feb. 2020 600-608
- Li, F., see Xie, S., TSMC July 2020 2408-2420
- Li, F., Zhang, L., Liu, Y., and Laili, Y., QoS-Aware Service Composition in Cloud Manufacturing: A Gale-Shapley Algorithm-Based Approach; TSMC July 2020 2386-2397
- Li, F., Xu, S., and Zhang, B., Resilient Asynchronous H<sub>∞</sub> Control for Discrete-Time Markov Jump Singularly Perturbed Systems Based on Hidden Markov Model; TSMC Aug. 2020 2860-2869
- Li, F., see Feng, J., TSMC Jan. 2020 81-88
- Li, G., Zeng, F., Li, H., and Qin, A.K., Matrix Function Optimization Problems Under Orthonormal Constraint; TSMC March 2020 802-814
- Li, G., see He, X., TSMC Dec. 2020 5285-5295
- Li, H., see Li, G., TSMC March 2020 802-814
- Li, H., see Pan, H., TSMC May 2020 1766-1776
- Li, H., see Wang, Z., TSMC July 2020 2491-2500
- Li, H., Lu, Q., Liao, X., and Huang, T., Accelerated Convergence Algorithm for Distributed Constrained Optimization under Time-Varying General Directed Graphs; TSMC July 2020 2612-2622
- Li, H., see Wang, Y., TSMC Dec. 2020 5386-5394

- Li, J., Wei, G., Ding, D., and Li, Y., Quantized Control for Networked Switched Systems With a More General Switching Rule; TSMC May 2020 1909-1917
- Li, J., Yu, X., and Zhou, M., Analysis of Unbounded Petri Net With Lean Reachability Trees; TSMC June 2020 2007-2016
- Li, J., Zhang, B., Lu, R., and Xu, Y., Robust Distributed H<sub>∞</sub> State Estimation for Stochastic Periodic Systems Over Constraint Sensor Networks; TSMC Nov. 2020 4396-4407
- Li, J., Zhang, Y., and Mao, M., Continuous and Discrete Zeroing Neural Network for Different-Level Dynamic Linear System With Robot Manipulator Control; TSMC Nov. 2020 4633-4642
- Li, J., see Xu, X., TSMC Nov. 2020 4212-4223
- Li, J., see Song, R., TSMC Nov. 2020 4009-4019
- Li, J., Zhang, J., Pang, N., and Qin, X., Weighted Outlier Detection of High-Dimensional Categorical Data Using Feature Grouping; TSMC Nov. 2020 4295-4308
- Li, J., Zhao, D., Ge, B., Jiang, J., and Yang, K., Disintegration of Operational Capability of Heterogeneous Combat Networks Under Incomplete Information; TSMC Dec. 2020 5172-5179
- Li, J., see Xu, Y., TSMC Jan. 2020 211-219
- Li, K., see Tang, X., TSMC July 2020 2638-2649
- Li, K., see Gong, H., TSMC Nov. 2020 4746-4761
- Li, K., Liu, Q., Yang, S., Cao, J., and Lu, G., Cooperative Optimization of Dual Multiagent System for Optimal Resource Allocation; TSMC Nov. 2020 4676-4687

- Li, K., Tong, S., and Li, Y., Finite-Time Adaptive Fuzzy Decentralized Control for Nonstrict-Feedback Nonlinear Systems With Output-Constraint; TSMC Dec. 2020 5271-5284
- Li, K., see Xiao, L., TSMC Dec. 2020 5233-5243
- Li, L., see Wang, G., TSMC Feb. 2020 421-431
- Li, L., see Zhao, Z., TSMC Feb. 2020 514-524
- Li, L., see Sun, Z., TSMC June 2020 2101-2112
- Li, L., see Liu, D., TSMC July 2020 2398-2407
- Li, M., Zhou, P., Wang, H., and Chai, T., Nonlinear Multiobjective MPC-Based Optimal Operation of a High Consistency Refining System in Papermaking; TSMC March 2020 1208-1215
- Li, M., see Zhang, G., TSMC March 2020 785-801
- Li, N., see Li, S., TSMC Nov. 2020 4171-4182
- Li, P., Yu, X., and Zhang, Y., The Design of Quasi-Optimal Higher Order Sliding Mode Control via Disturbance Observer and Switching-Gain Adaptation; TSMC Nov. 2020 4817-4827
- Li, P., Sun, X., and Zhao, X., Stabilization of Linear Systems With Input Saturation and Large Delay; TSMC Nov. 2020 4482-4491
- Li, P., see Yan, H., TSMC Dec. 2020 5330-5337
- Li, Q., see Yu, J., TSMC April 2020 1465-1475
- Li, Q., see Gan, J., TSMC July 2020 2741-2751
- Li, Q., see Hua, Y., TSMC Oct. 2020 3795-3803
- Li, Q., Lin, H., Tan, X., and Du, S., H<sub>∞</sub> Consensus for Multiagent-Based Supply Chain Systems Under Switching Topology and Uncertain Demands; TSMC Dec. 2020 4905-4918
- Li, R., see Gong, H., TSMC Nov. 2020 4746-4761
- Li, S., see Zhang, C., TSMC Feb. 2020 577-589
- Li, S., see Ding, L., TSMC July 2020 2512-2523
- Li, S., see Liu, R., TSMC July 2020 2475-2490
- Li, S., see Yu, Z., TSMC Nov. 2020 4545-4556
- Li, S., Ding, L., Gao, H., Liu, Y., Li, N., and Deng, Z., Reinforcement Learning Neural Network-Based Adaptive Control for State and Input Time-Delayed Wheeled Mobile Robots; TSMC Nov. 2020 4171-4182
- Li, S., see Xiao, L., TSMC Dec. 2020 5233-5243
- Li, T., Kou, G., Peng, Y., and Shi, Y., Classifying With Adaptive Hyper-Spheres: An Incremental Classifier Based on Competitive Learning; TSMC April 2020 1218-1229
- Li, T., see Wang, Z., TSMC April 2020 1275-1285
- Li, T., see Yang, D., TSMC Nov. 2020 4086-4096
- Li, T., see Chen, J., TSMC Nov. 2020 4197-4211
- Li, T., see Li, Z., TSMC Dec. 2020 5317-5329
- Li, W., see Wei, G., TSMC Nov. 2020 4611-4622
- Li, W., Design and Analysis of a Novel Finite-Time Convergent and Noise-Tolerant Recurrent Neural Network for Time-Variant Matrix Inversion; TSMC Nov. 2020 4362-4376
- Li, W., Ding, L., Gao, H., and Tavakoli, M., Haptic Tele-Driving of Wheeled Mobile Robots Under Nonideal Wheel Rolling, Kinematic Control and Communication Time Delay; TSMC Jan. 2020 336-347
- Li, X., see Yan, J., TSMC March 2020 884-898
- Li, X., see Li, B.N., TSMC March 2020 1111-1121
- Li, X., Wang, R., Yang, B., and Wang, W., Stability Analysis for Delayed Neural Networks via Some Switching Methods; TSMC May 2020 1690-1695
- Li, X., see Yu, J., TSMC July 2020 2445-2455
- Li, X., see Bayrak, A.E., TSMC July 2020 2716-2728
- Li, X., see Yan, J., TSMC Sept. 2020 3412-3423
- Li, X., see Xu, X., TSMC Oct. 2020 3884-3897
- Li, X., see Zhang, B., TSMC Dec. 2020 4984-4999
- Li, Y., see Huang, L., TSMC Feb. 2020 550-564
- Li, Y., see Yang, Z., TSMC Feb. 2020 539-549
- Li, Y., see Dong, H., TSMC March 2020 1013-1023
- Li, Y., Luo, P., and Pin, P., Utility-Based Model for Characterizing the Evolution of Social Networks; TSMC March 2020 1083-1094
- Li, Y., see Li, J., TSMC May 2020 1909-1917
- Li, Y., Liu, L., and Feng, G., Finite-Time  $\mathcal{H}_{\infty}$  Controller Synthesis of T–S Fuzzy Systems; TSMC May 2020 1956-1963
- Li, Y., see Wang, Y., TSMC June 2020 2093-2100
- Li, Y., see Wu, Y., TSMC Sept. 2020 3210-3219

Li, J., see Lee, H.K., TSMC Feb. 2020 686-699 Li, J., see Oin, F., TSMC March 2020 1024-1034

- Li, Y., Yin, G., Zhuang, W., Zhang, N., Wang, J., and Geng, K., Compensating Delays and Noises in Motion Control of Autonomous Electric Vehicles by Using Deep Learning and Unscented Kalman Predictor; *TSMC Nov. 2020* 4326-4338
- Li, Y., see Hua, C., TSMC Nov. 2020 4309-4317
- Li, Y., see Li, K., TSMC Dec. 2020 5271-5284
- Li, Y., see Su, Z., TSMC Dec. 2020 5432-5443
- Li, Z., see Lv, Y., TSMC April 2020 1602-1609
- Li, Z., see Fu, J., TSMC June 2020 2150-2156
- Li, Z., see Gasmi, M., TSMC July 2020 2623-2637
- Li, Z., see Liu, M., TSMC July 2020 2541-2550
- Li, Z., see Liu, Y., TSMC Aug. 2020 3047-3058
- Li, Z., see Wu, Z., TSMC Sept. 2020 3252-3257
- Li, Z., see Wu, Z., TSMC Sept. 2020 3252-3257
- Li, Z., see Grichi, H., TSMC Oct. 2020 3562-3576
- Li, Z., see Karoui, O., TSMC Oct. 2020 3613-3627
- Li, Z., see Hafidi, Y., TSMC Oct. 2020 3577-3591
- Li, Z., Teng, J., Qiu, J., and Gao, H., Filtering Design for Multirate Sampled-Data Systems; *TSMC Nov. 2020 4224-4232*
- Li, Z., Liao, B., Xu, F., and Guo, D., A New Repetitive Motion Planning Scheme With Noise Suppression Capability for Redundant Robot Manipulators; *TSMC Dec. 2020 5244-5254*
- Li, Z., Li, T., Feng, G., Zhao, R., and Shan, Q., Neural Network-Based Adaptive Control for Pure-Feedback Stochastic Nonlinear Systems With Time-Varying Delays and Dead-Zone Input; *TSMC Dec. 2020 5317-5329*
- Li, Z., Xu, C., Wei, Q., Shi, C., and Su, C., Human-Inspired Control of Dual-Arm Exoskeleton Robots With Force and Impedance Adaptation; *TSMC Dec. 2020 5296-5305*
- Li, Z., and Park, J.H., Dissipative Fuzzy Tracking Control for Nonlinear Networked Systems With Quantization; *TSMC Dec. 2020 5130-5141*
- Li, Z., see Wang, X., TSMC Dec. 2020 4948-4958
- Liang, B., see Mu, Z., TSMC May 2020 1746-1756
- Liang, J., see Wang, F., TSMC Jan. 2020 220-232
- Liang, L., Chen, S., and Wu, D.D., A Decision Support Approach to Liquidate a Distressed Debt Network; TSMC April 2020 1242-1251
- Liang, M., Wang, D., and Liu, D., Neuro-Optimal Control for Discrete Stochastic Processes via a Novel Policy Iteration Algorithm; *TSMC Nov. 2020* 3972-3985
- Liang, Y., see Geng, H., TSMC July 2020 2599-2611
- Liang, Y., see Zhang, H., TSMC Nov. 2020 4135-4150
- Liao, B., see Li, Z., TSMC Dec. 2020 5244-5254
- Liao, B., see Zhang, Z., TSMC Dec. 2020 5106-5118
- Liao, B., see Xiao, L., TSMC Dec. 2020 5233-5243
- Liao, X., see Li, H., TSMC July 2020 2612-2622
- Liao, X., see Le, J., TSMC Oct. 2020 3871-3883
- Liao, X., see Zhang, D., TSMC Jan. 2020 32-42
- Liao, Z., Gong, W., Yan, X., Wang, L., and Hu, C., Solving Nonlinear Equations System With Dynamic Repulsion-Based Evolutionary Algorithms; *TSMC April 2020 1590-1601*
- Lim, C., see Chen, H., TSMC Dec. 2020 5406-5419
- Lin, C., see Tsai, J., TSMC April 2020 1300-1309
- Lin, C., see Cheng, H., TSMC May 2020 1850-1864
- Lin, C., see Shang, Y., TSMC July 2020 2436-2444
- Lin, C., see Zhang, Z., TSMC Aug. 2020 3072-3085
- Lin, C., see King, J., TSMC Nov. 2020 4408-4414
- Lin, D., see Jiang, J., TSMC Feb. 2020 617-632
- Lin, H., see Li, Q., TSMC Dec. 2020 4905-4918
- Lin, J., see Jiang, K., TSMC April 2020 1570-1579
- Lin, M., see Yuan, H., TSMC Jan. 2020 111-122
- Lin, Y., Chu, E.T., Chang, E., and Lai, Y., Smoothed Graphic User Interaction on Smartphones With Motion Prediction; *TSMC April 2020 1429-1441*
- Lin, Y., see Huang, C., TSMC April 2020 1395-1405
- Lin, Z., see Zhao, S., TSMC Aug. 2020 2897-2904
- Liu, A., Zhang, W., Yu, L., Yan, H., and Zhang, R., Formation Control of Multiple Mobile Robots Incorporating an Extended State Observer and Distributed Model Predictive Approach; *TSMC Nov. 2020* 4587-4597

- Liu, B., see Xiao, P., TSMC March 2020 911-922
- Liu, C., see Duan, H., TSMC Aug. 2020 2845-2859
- Liu, C., Jiang, B., and Zhang, K., Adaptive Fault-Tolerant H-Infinity Output Feedback Control for Lead–Wing Close Formation Flight; *TSMC Aug. 2020* 2804-2814
- Liu, C., see Zeng, Q., TSMC Oct. 2020 3685-3700
- Liu, C., see Zhang, H., TSMC Nov. 2020 4135-4150
- Liu, C., see Xu, Y., TSMC Jan. 2020 211-219
- Liu, D., see Yang, Z., TSMC Feb. 2020 539-549
- Liu, D., see Fan, G., TSMC April 2020 1260-1274
- Liu, D., Yang, Y., Li, L., and Ding, S.X., Control Performance-Based Fault-Tolerant Control Strategy for Singular Systems; *TSMC July 2020 2398-2407*
- Liu, D., see Xue, S., TSMC Sept. 2020 3189-3199
- Liu, D., see Ha, M., TSMC Sept. 2020 3158-3168
- Liu, D., see Zhu, X., TSMC Oct. 2020 3731-3740
- Liu, D., Yu, W., Baldi, S., Cao, J., and Huang, W., A Switching-Based Adaptive Dynamic Programming Method to Optimal Traffic Signaling; *TSMC Nov.* 2020 4160-4170
- Liu, D., see Liang, M., TSMC Nov. 2020 3972-3985
- Liu, D., Lewis, F.L., and Wei, Q., Editorial Special Issue on Adaptive Dynamic Programming and Reinforcement Learning; *TSMC Nov. 2020 3944-3947*
- Liu, D., see Hou, J., TSMC Nov. 2020 4097-4108
- Liu, G., see Wang, M., TSMC Oct. 2020 3628-3645
- Liu, G., Predictive Control of Networked Nonlinear Multiagent Systems With Communication Constraints; *TSMC Nov. 2020 4447-4457*
- Liu, H., see Feng, Y., TSMC Feb. 2020 525-538
- Liu, H., Cheng, L., Tan, M., and Hou, Z., Exponential Finite-Time Consensus of Fractional-Order Multiagent Systems; *TSMC April 2020 1549-1558*
- Liu, H., Sun, F., Fang, B., and Guo, D., Cross-Modal Zero-Shot-Learning for Tactile Object Recognition; *TSMC July 2020 2466-2474*
- Liu, H., see Yuan, Y., TSMC Sept. 2020 3391-3400
- Liu, H., see Feng, Y., TSMC Oct. 2020 3515-3527
- Liu, H., and Yu, H., Finite-Time Control of Continuous-Time Networked Dynamical Systems; TSMC Nov. 2020 4623-4632
- Liu, J., see Jiang, L., TSMC Oct. 2020 3828-3840
- Liu, J., see He, Y., TSMC Oct. 2020 3554-3561
- Liu, K., see Duan, P., TSMC Sept. 2020 3220-3230
- Liu, L., see Wang, Z., TSMC April 2020 1275-1285
- Liu, L., see Li, Y., TSMC May 2020 1956-1963
- Liu, L., Zhao, X., Sun, X., and Zong, G., Stability and l<sub>2</sub>-Gain Analysis of Discrete-Time Switched Systems with Mode-Dependent Average Dwell Time; *TSMC June 2020 2305-2314*
- Liu, L., and Tang, L., Partial State Constraints-Based Control for Nonlinear Systems With Backlash-Like Hysteresis; *TSMC Aug. 2020 3100-3104*
- Liu, L., see Ma, J., TSMC Sept. 2020 3231-3242
- Liu, L., see Guo, Z., TSMC Nov. 2020 4458-4471
- Liu, L., see Zhang, H., TSMC Nov. 2020 3986-3995
- Liu, L., see Liu, Y., TSMC Dec. 2020 5351-5360
- Liu, M., see Ge, Q., TSMC March 2020 899-910
- Liu, M., Wang, X., and Li, Z., Robust Bipartite Consensus and Tracking Control of High-Order Multiagent Systems With Matching Uncertainties and Antagonistic Interactions; *TSMC July 2020 2541-2550*
- Liu, P., Chen, S., and Wang, P., Multiple-Attribute Group Decision-Making Based on q-Rung Orthopair Fuzzy Power Maclaurin Symmetric Mean Operators; *TSMC Oct. 2020 3741-3756*
- Liu, Q., see Chang, B., TSMC June 2020 2242-2256
- Liu, Q., see Zhi, Y., TSMC Oct. 2020 3936-3942
- Liu, Q., and Zhou, B., Consensus of Discrete-Time Multiagent Systems With State, Input, and Communication Delays; *TSMC Nov. 2020* 4425-4437
- Liu, Q., see Li, K., TSMC Nov. 2020 4676-4687
- Liu, Q., see Xu, X., TSMC Nov. 2020 4339-4348
- Liu, Q., see Leng, J., TSMC Jan. 2020 182-192
- Liu, R., Li, S., Yang, L., and Yin, J., Energy-Efficient Subway Train Scheduling Design With Time-Dependent Demand Based on an Approximate Dynamic Programming Approach; *TSMC July 2020 2475-2490*

- Liu, S., Luo, W., and Wu, L., Co-Design of Distributed Model-Based Control and Event-Triggering Scheme for Load Frequency Regulation in Smart Grids; *TSMC Sept. 2020 3311-3319*
- Liu, S., see Song, Y., TSMC Nov. 2020 4762-4772
- Liu, S., see Hua, C., TSMC Nov. 2020 4309-4317
- Liu, T., see Mu, Z., TSMC May 2020 1746-1756
- Liu, T., see Du, S., TSMC Sept. 2020 3243-3251
- Liu, X., see Cao, L., TSMC April 2020 1350-1361
- Liu, X., see Tao, X., TSMC April 2020 1486-1498
- Liu, X., see Chen, H., TSMC June 2020 2042-2055
- Liu, X., Ma, G., Pagilla, P.R., and Ge, S.S., Dynamic Output Feedback Asynchronous Control of Networked Markovian Jump Systems; *TSMC July 2020* 2705-2715
- Liu, X., Shen, C., Guan, X., and Zhou, Y., We Know Who You Are: Discovering Similar Groups Across Multiple Social Networks; *TSMC July 2020 2693-*2704
- Liu, X., see Zhang, Z., TSMC Aug. 2020 3072-3085
- Liu, X., Gao, X., and Han, J., Distributed Fault Estimation for a Class of Nonlinear Multiagent Systems; *TSMC Sept. 2020 3382-3390*
- Liu, X., see Vargas, A.N., TSMC Nov. 2020 4318-4325
- Liu, X., see Chen, H., TSMC Dec. 2020 5211-5220
- Liu, X., see Chen, H., TSMC Dec. 2020 5211-5220
- Liu, X., see Wang, F., TSMC Jan. 2020 220-232
- Liu, X., see Cao, Z., TSMC Jan. 2020 376-384
- Liu, Y., see Zhang, H., TSMC Feb. 2020 432-441
- Liu, Y., and Ma, H., Adaptive Fuzzy Tracking Control of Nonlinear Switched Stochastic Systems With Prescribed Performance and Unknown Control Directions; *TSMC Feb. 2020 590-599*
- Liu, Y., and Yang, G., Prescribed Performance-Based Consensus of Nonlinear Multiagent Systems With Unknown Control Directions and Switching Networks; TSMC Feb. 2020 609-616
- Liu, Y., see Liu, Z., TSMC March 2020 815-828
- Liu, Y., see Zhu, S., TSMC April 2020 1580-1589
- Liu, Y., see Chen, J., TSMC June 2020 2198-2207
- Liu, Y., see Wang, M., TSMC July 2020 2375-2385
- Liu, Y., see Li, F., TSMC July 2020 2386-2397
- Liu, Y., Li, Z., Zhang, T., and Zhao, S., Brain–Robot Interface-Based Navigation Control of a Mobile Robot in Corridor Environments; *TSMC Aug. 2020* 3047-3058
- Liu, Y., see Wang, X., TSMC Aug. 2020 2948-2957
- Liu, Y., Jiang, B., Lu, J., Cao, J., and Lu, G., Event-Triggered Sliding Mode Control for Attitude Stabilization of a Rigid Spacecraft; *TSMC Sept. 2020* 3290-3299
- Liu, Y., see Wei, G., TSMC Nov. 2020 4611-4622
- Liu, Y., see Zhang, H., TSMC Nov. 2020 3986-3995
- Liu, Y., Zhang, H., Yu, R., and Xing, Z., H<sub>∞</sub> Tracking Control of Discrete-Time System With Delays via Data-Based Adaptive Dynamic Programming; *TSMC Nov. 2020 4078-4085*
- Liu, Y., see Li, S., TSMC Nov. 2020 4171-4182
- Liu, Y., Zeng, Q., Liu, L., and Tong, S., An Adaptive Neural Network Controller for Active Suspension Systems With Hydraulic Actuator; *TSMC Dec. 2020* 5351-5360
- Liu, Y., see He, X., TSMC Dec. 2020 5285-5295
- Liu, Y., see Xiong, W., TSMC Jan. 2020 245-255
- Liu, Z., see Chen, L., TSMC Feb. 2020 490-501
- Liu, Z., Chen, W., Wang, H., Liu, Y., Shen, Y., and Fu, X., A Self-Repairing Algorithm With Optimal Repair Path for Maintaining Motion Synchronization of Mobile Robot Network; *TSMC March 2020 815-828*
- Liu, Z., see Chen, K., TSMC July 2020 2351-2361
- Liu, Z., see Que, H., TSMC Aug. 2020 2828-2833
- Liu, Z., see Luo, J., TSMC Oct. 2020 3658-3669
- Liu, Z., see Wu, H., TSMC Nov. 2020 4151-4159
- Liu, Z.-Y., see Yang, X., TSMC April 2020 1406-1416
- Lou, J., see Zhu, S., TSMC April 2020 1580-1589
- Love, C., see Galloway, G.S., TSMC April 2020 1252-1259

- Lu, C., Context-Aware Service Provisioning via Agentized and Reconfigurable Multimodel Cooperation for Real-Life IoT-Enabled Smart Home Systems; *TSMC Aug. 2020 2914-2925*
- Lu, G., see Liu, Y., TSMC Sept. 2020 3290-3299
- Lu, G., see Li, K., TSMC Nov. 2020 4676-4687
- Lu, J., see Zhu, S., TSMC April 2020 1580-1589
- Lu, J., see Wang, X., TSMC July 2020 2588-2598
- Lu, J., see Ping, Z., TSMC Aug. 2020 2989-2995
- Lu, J., see Liu, Y., TSMC Sept. 2020 3290-3299
- Lu, J., see Yang, X., TSMC Jan. 2020 58-72
- Lu, N., see Chen, B., TSMC Nov. 2020 4557-4568
- Lu, N., Jiang, B., Meng, X., and Zhao, H., Diagnosis, Diagnosticability Analysis, and Test Point Design for Multiple Faults Based on Multisignal Modeling and Blind Source Separation; *TSMC Jan. 2020 137-148*
- Lu, Q., see Li, H., TSMC July 2020 2612-2622
- Lu, R., see Jin, Q., TSMC April 2020 1310-1317
- Lu, R., see Ren, H., TSMC May 2020 1932-1942
- Lu, R., see Li, J., TSMC Nov. 2020 4396-4407
- Lu, S., see Tang, H., TSMC March 2020 762-770
- Lu, X., Ming, L., Hu, T., and Fan, B., Collaborative Learning-Based Clustered Support Vector Machine for Modeling of Nonlinear Processes Subject to Noise; *TSMC Dec. 2020 5162-5171*
- Lu, X., see Lai, J., TSMC Jan. 2020 100-110
- Lu, X.S., see Han, W., TSMC Feb. 2020 707-716
- Luo, B., see Yang, Z., TSMC Feb. 2020 539-549
- Luo, B., see Xue, S., TSMC Sept. 2020 3189-3199
- Luo, B., Yang, Y., Wu, H., and Huang, T., Balancing Value Iteration and Policy Iteration for Discrete-Time Control; *TSMC Nov. 2020 3948-3958*
- Luo, B., see Zheng, A., TSMC Jan. 2020 149-158
- Luo, H., see Kaynak, O., TSMC Sept. 2020 3330-3332
- Luo, J., Liu, Z., Zhou, M., and Xing, K., Deadlock-Free Scheduling of Flexible Assembly Systems Based on Petri Nets and Local Search; *TSMC Oct. 2020* 3658-3669
- Luo, L., see Zhou, S., TSMC Dec. 2020 5201-5210
- Luo, P., see Li, Y., TSMC March 2020 1083-1094
- Luo, W., see Liu, S., TSMC Sept. 2020 3311-3319
- **Luo, Y.,** Wang, Z., Wei, G., and Alsaadi, F.E., Nonfragile  $l_2 l_{\infty}$  Fault Estimation for Markovian Jump 2-D Systems With Specified Power Bounds; *TSMC May 2020 1964-1975*
- Luo, Y., see Su, H., TSMC Nov. 2020 3996-4008
- Lv, R., see Xia, Z., TSMC April 2020 1526-1536
- Lv, Y., Li, Z., and Duan, Z., Distributed PI Control for Consensus of Heterogeneous Multiagent Systems Over Directed Graphs; *TSMC April 2020 1602-*1609
- Lyu, Z., see Han, M., TSMC May 2020 1820-1832

#### Μ

- Ma, C., and Xie, L., Necessary and Sufficient Conditions for Leader-Following Bipartite Consensus With Measurement Noise; TSMC May 2020 1976-1981
- Ma, D., see Tang, L., TSMC Nov. 2020 4270-4282
- Ma, G., see Liu, X., TSMC July 2020 2705-2715
- Ma, H., see Liu, Y., TSMC Feb. 2020 590-599
- Ma, H., see Ma, Z., TSMC Sept. 2020 3435-3447
- Ma, H., see Eltoukhy, A.E.E., TSMC Dec. 2020 4919-4932
- Ma, J., Huang, B., and Ding, F., Iterative Identification of Hammerstein Parameter Varying Systems With Parameter Uncertainties Based on the Variational Bayesian Approach; *TSMC March 2020 1035-1045*
- Ma, J., see Wang, Y., TSMC Aug. 2020 2926-2937
- Ma, J., Liu, L., Ji, H., and Feng, G., Quantized Consensus of Multiagent Systems by Event-Triggered Control; *TSMC Sept. 2020 3231-3242*
- Ma, L., Wang, Z., Cai, C., and Alsaadi, F.E., Dynamic Event-Triggered State Estimation for Discrete-Time Singularly Perturbed Systems With Distributed Time-Delays; *TSMC Sept. 2020 3258-3268*
- Ma, X., see Huang, D., TSMC Jan. 2020 172-181
- Ma, Y., see Qiao, F., TSMC May 2020 1679-1689
- Ma, Z., see Wang, Y., TSMC June 2020 2093-2100

- Ma, Z., Zhu, J., and Chen, Y., A Probabilistic Linguistic Group Decision-Making Method From a Reliability Perspective Based on Evidential Reasoning; *TSMC July 2020 2421-2435*
- Ma, Z., and Ma, H., Decentralized Adaptive NN Output-Feedback Fault Compensation Control of Nonlinear Switched Large-Scale Systems With Actuator Dead-Zones; *TSMC Sept. 2020 3435-3447*
- Mahmoud, M.S., and Alyazidi, N.M., Quantized H<sub>∞</sub> Estimator Over Communication Networks for Distributed Generation Units; *TSMC March 2020* 1134-1146
- Majma, N., and Babamir, S.M., Model-Based Monitoring and Adaptation of Pacemaker Behavior Using Hierarchical Fuzzy Colored Petri-Nets; *TSMC* Sept. 2020 3344-3357
- Malaiya, Y.K., see Xiao, P., TSMC March 2020 911-922
- Man, Y., see Wang, M., TSMC July 2020 2375-2385
- Mancasari, U.A., see Chen, C., TSMC Dec. 2020 4870-4881
- Mangini, A.M., see Fanti, M.P., TSMC March 2020 1161-1177
- Manivannan, R., Samidurai, R., Cao, J., and Perc, M., Design of Resilient Reliable Dissipativity Control for Systems With Actuator Faults and Probabilistic Time-Delay Signals via Sampled-Data Approach; *TSMC Nov. 2020* 4243-4255
- Mao, M., see Li, J., TSMC Nov. 2020 4633-4642
- Mao, W., see Kong, Q., TSMC Oct. 2020 3817-3827
- Mao, Y., and Zhang, Z., Asymptotic Frequency Synchronization of Kuramoto Model by Step Force; TSMC Aug. 2020 2768-2778
- Marsella, S., see De Cillis, F., TSMC Feb. 2020 468-479
- Martinel, N., see Avola, D., TSMC June 2020 2139-2149
- Martinez Ayala, D.F., Balasingam, B., McComb, S., and Pattipati, K.R., Markov Modeling and Analysis of Team Communication; *TSMC April 2020* 1230-1241
- Martins, D.M.L., and de Lima Neto, F.B., Hybrid Intelligent Decision Support Using a Semiotic Case-Based Reasoning and Self-Organizing Maps; TSMC March 2020 863-870
- Marzoli, M., see De Cillis, F., TSMC Feb. 2020 468-479
- Mazenc, F., see Sun, X., TSMC July 2020 2752-2759
- McComb, S., see Martinez Ayala, D.F., TSMC April 2020 1230-1241
- Meng, D., and Moore, K.L., Contraction Mapping-Based Robust Convergence of Iterative Learning Control With Uncertain, Locally Lipschitz Nonlinearity; *TSMC Feb. 2020 442-454*
- Meng, D., Niu, W., Ding, X., and Zhao, L., Network-to-Network Control Over Heterogeneous Topologies: A Dynamic Graph Approach; *TSMC May 2020* 1885-1896
- Meng, L., see Ren, Y., TSMC Oct. 2020 3770-3783
- Meng, L., see Zhang, B., TSMC Dec. 2020 4984-4999
- Meng, X., see Lu, N., TSMC Jan. 2020 137-148
- Meng, Y., see Chen, X., TSMC July 2020 2327-2337
- Min, H., Xu, S., Zhang, B., and Duan, N., Practically Finite-Time Control for Nonlinear Systems With Mismatching Conditions and Application to a Robot System; *TSMC Feb. 2020 480-489*
- Ming, L., see Lu, X., TSMC Dec. 2020 5162-5171
- Ming, Y., see King, J., TSMC Nov. 2020 4408-4414
- Mishra, M., see Sidoti, D., TSMC March 2020 1055-1073
- Mishra, M., An, W., Sidoti, D., Han, X., Ayala, D.F.M., Hansen, J.A., Pattipati, K.R., and Kleinman, D.L., Context-Aware Decision Support for Anti-Submarine Warfare Mission Planning Within a Dynamic Environment; *TSMC Jan. 2020 318-335*
- Mo, Y., Xing, L., and Jiang, J., Modeling and Analyzing Linear Wireless Sensor Networks With Backbone Support; *TSMC Oct. 2020 3912-3924*
- Mollah, M.P., see Ferdous, J., TSMC Feb. 2020 455-467
- Montezuma, M.A.F., see Vargas, A.N., TSMC Nov. 2020 4318-4325
- Monti, A., see Lai, J., TSMC Jan. 2020 100-110
- Moon, I., see Bae, J.W., TSMC July 2020 2551-2565
- Moore, K.L., see Meng, D., TSMC Feb. 2020 442-454
- Mosbahi, O., see Gasmi, M., TSMC July 2020 2623-2637
- Mosbahi, O., see Grichi, H., TSMC Oct. 2020 3562-3576
- Mousavi, A., see Danishvar, M., TSMC May 2020 1649-1662
- Movaghar, A., see Entezari-Maleki, R., TSMC March 2020 947-961

- Mu, C., Zhang, Y., Gao, Z., and Sun, C., ADP-Based Robust Tracking Control for a Class of Nonlinear Systems With Unmatched Uncertainties; *TSMC Nov. 2020 4056-4067*
- Mu, N., see Zhang, D., TSMC Jan. 2020 32-42
- Mu, T., Al-Fuqaha, A., and Salah, K., Automating the Configuration of MapReduce: A Reinforcement Learning Scheme; TSMC Nov. 2020 4183-4196
- Mu, Z., Yuan, H., Xu, W., Liu, T., and Liang, B., A Segmented Geometry Method for Kinematics and Configuration Planning of Spatial Hyper-Redundant Manipulators; *TSMC May 2020 1746-1756*
- Musa, A.J., see Lee, H.K., TSMC Feb. 2020 686-699

#### Ν

- Naghdy, F., see Huang, C., TSMC June 2020 2257-2272
- Nankun, M., see Le, J., TSMC Oct. 2020 3871-3883
- Nasir, A., Atkins, E.M., and Kolmanovsky, I., Robust Science-Optimal Spacecraft Control for Circular Orbit Missions; *TSMC March 2020 923-934*
- Nassour, J., see Tran, D.H., TSMC Oct. 2020 3701-3712
- Navia-Vazquez, A., see Diaz-Morales, R., TSMC Nov. 2020 4664-4675
- Nelson, K., see Lee, H.K., TSMC Feb. 2020 686-699
- Nematollahi, M., see Hosseini-Motlagh, S., TSMC Dec. 2020 4882-4893
- Nguyen, L., Hu, G., and Spanos, C.J., Efficient Sensor Deployments for Spatio-Temporal Environmental Monitoring; *TSMC Dec. 2020 5306-5316*
- Nguyen, T.T., see Azimi, V., TSMC Aug. 2020 3024-3035
- Nguyen, V., Huynh, V., and Sriboonchitta, S., Integrating Community Context Information Into a Reliably Weighted Collaborative Filtering System Using Soft Ratings; *TSMC April 2020 1318-1330*
- Nguyen, V., see Tran, Q., TSMC July 2020 2659-2670
- Niaki, A.A., see Entezari-Maleki, R., TSMC March 2020 947-961
- Ning, B., see Dong, H., TSMC March 2020 1013-1023
- Niu, W., see Meng, D., TSMC May 2020 1885-1896
- Niu, Y., see Song, J., TSMC April 2020 1514-1525

## 0

- Oakley, I., see Lee, C., TSMC April 2020 1384-1394
- Oh, Y., see Kim, J.H., TSMC Nov. 2020 4569-4586
- Olasupo, T.O., and Otero, C.E., The Impacts of Node Orientation on Radio Propagation Models for Airborne-Deployed Sensor Networks in Large-Scale Tree Vegetation Terrains; *TSMC Jan. 2020 256-269*
- Olson, D.L., and Wu, D.D., Guest Editorial Special Issue: Modeling Support to Various Levels of Decision-Making; *TSMC Oct. 2020 3728-3730*
- Olson, D.L., see Yuan, Y., TSMC Jan. 2020 2-8
- Ong, Y., see Zhong, J., TSMC Nov. 2020 4492-4505
- Ota, K., see Zhou, Z., TSMC Jan. 2020 43-57
- Otero, C.E., see Olasupo, T.O., TSMC Jan. 2020 256-269
- **Ozguner, U.,** *see* Zhang, Y., *TSMC June 2020 2068-2082*

#### Р

Pagilla, P.R., see Liu, X., TSMC July 2020 2705-2715

- Pan, H., Li, H., Sun, W., and Wang, Z., Adaptive Fault-Tolerant Compensation Control and Its Application to Nonlinear Suspension Systems; *TSMC May* 2020 1766-1776
- Pan, Q., see Zhang, B., TSMC Dec. 2020 4984-4999
- Pan, S., see Xiong, F., TSMC Oct. 2020 3804-3816
- Pan, Y., see Xu, Y., TSMC April 2020 1455-1464
- Panda, R., see Agrawal, S., TSMC Nov. 2020 4688-4696
- Pang, B., and Zhang, Q., Interval Observers Design for Polynomial Fuzzy Singular Systems by Utilizing Sum-of-Squares Program; *TSMC June 2020* 1999-2006
- Pang, C., see Dai, W., TSMC March 2020 851-862
- Pang, N., see Li, J., TSMC Nov. 2020 4295-4308
- Pang, Y., Xia, H., and Grimble, M.J., Resilient Nonlinear Control for Attacked Cyber-Physical Systems; *TSMC June 2020 2129-2138*
- Pannone, D., see Avola, D., TSMC June 2020 2139-2149

- Papalambros, P.Y., see Bayrak, A.E., TSMC July 2020 2716-2728
- Park, J.H., see Wu, L., TSMC Sept. 2020 3470-3480
- Park, J.H., see Chang, X., TSMC Nov. 2020 4697-4707
- Park, J.H., see Shen, H., TSMC Nov. 2020 4796-4806
- Park, J.H., see Xie, X., TSMC Nov. 2020 4387-4393
- Park, J.H., see Li, Z., TSMC Dec. 2020 5130-5141
- Park, J.H., see Tang, Z., TSMC Dec. 2020 5395-5405
- Park, J.M., see Bayrak, A.E., TSMC July 2020 2716-2728
- Pascucci, F., see De Cillis, F., TSMC Feb. 2020 468-479
- Patan, R., see Khari, M., TSMC Jan. 2020 73-80
- Pattipati, K.R., see Sidoti, D., TSMC March 2020 1055-1073
- Pattipati, K.R., see Martinez Ayala, D.F., TSMC April 2020 1230-1241
- Pattipati, K.R., see Mishra, M., TSMC Jan. 2020 318-335
- Pedroncelli, G., see Fanti, M.P., TSMC March 2020 1161-1177
- Pedrycz, W., see Zhao, J., TSMC Nov. 2020 4773-4786
- Peng, C., see Zhang, J., TSMC Sept. 2020 3126-3135
- Peng, K., see Zhang, B., TSMC Dec. 2020 4984-4999
- Peng, X., Geng, Z., and Sun, J., The Specified Finite-Time Distributed Observers-Based Velocity-Free Attitude Synchronization for Rigid Bodies on SO(3); TSMC April 2020 1610-1621
- Peng, Y., see Li, T., TSMC April 2020 1218-1229
- **Peng, Y.,** Chen, Q., and Sun, W., Reinforcement Q-Learning Algorithm for  $H_{\infty}$ Tracking Control of Unknown Discrete-Time Linear Systems; *TSMC Nov.* 2020 4109-4122
- Perc, M., see Zhuang, J., TSMC Nov. 2020 4807-4816
- Perc, M., see Manivannan, R., TSMC Nov. 2020 4243-4255
- Petersen, I., see Santoso, F., TSMC Aug. 2020 3059-3071
- Phadke, S.B., see Lathkar, M.S., TSMC March 2020 840-850
- Pham, H.X., La, H.M., Feil-Seifer, D., and Deans, M.C., A Distributed Control Framework of Multiple Unmanned Aerial Vehicles for Dynamic Wildfire Tracking; *TSMC April 2020 1537-1548*
- Pham, K.D., see Wang, J., TSMC Dec. 2020 5142-5151
- Pi, D., see Cui, L., TSMC May 2020 1663-1678
- Piciarelli, C., see Avola, D., TSMC June 2020 2139-2149
- Pigne, Y., see Lefebvre, D., TSMC Sept. 2020 3369-3381
- Pin, P., see Li, Y., TSMC March 2020 1083-1094
- Ping, Z., Hu, H., Huang, Y., Ge, S., and Lu, J., Discrete-Time Neural Network Approach for Tracking Control of Spherical Inverted Pendulum; *TSMC Aug.* 2020 2989-2995
- Piuri, V., see Donida Labati, R., TSMC Jan. 2020 290-304
- Placek, P.C., Kohn, W., and Zabinsky, Z.B., An I-frame Methodology for Approximating Nonlinear Least Squares; *TSMC April 2020 1362-1371*
- Placek, P.C., see Kohn, W., TSMC June 2020 2083-2092
- Prasad, M., see King, J., TSMC Nov. 2020 4408-4414
- Pu, Z., see Sun, J., TSMC Nov. 2020 4377-4386

# Q

- Qi, L., see Fu, Y., TSMC Dec. 2020 5037-5048
- Qi, M., see Zhang, G., TSMC March 2020 785-801
- Qi, Y., Zeng, P., and Bao, W., Event-Triggered and Self-Triggered H<sub>∞</sub> Control of Uncertain Switched Linear Systems; TSMC April 2020 1442-1454
- Qian, L., see Xu, X., TSMC Oct. 2020 3884-3897
- Qiao, F., Ma, Y., Zhou, M., and Wu, Q., A Novel Rescheduling Method for Dynamic Semiconductor Manufacturing Systems; *TSMC May 2020 1679-*1689
- Qiao, J., see Wang, C., TSMC Nov. 2020 4708-4718
- Qiao, J., see Han, H., TSMC Nov. 2020 4415-4424
- Qiao, Y., see Yang, F., TSMC March 2020 871-883
- Qiao, Y., see Yang, F., TSMC Oct. 2020 3646-3657
- Qiao, Y., see Duan, L., TSMC Dec. 2020 5255-5270
- Qiao, Y., see Zhu, Q., TSMC Dec. 2020 5015-5023
- Qiaoxu, H., see Yang, X., TSMC April 2020 1406-1416
- Qin, A.K., see Li, G., TSMC March 2020 802-814
- Qin, F., Zhang, D., Xing, D., Xu, D., and Li, J., Laser Beam Pointing Control With Piezoelectric Actuator Model Learning; *TSMC March 2020 1024-1034* Qin, J., see Chen, B., *TSMC Nov. 2020 4557-4568*

- Qin, X., see Zhang, J., TSMC March 2020 988-1002
- Qin, X., see Li, J., TSMC Nov. 2020 4295-4308
- Qin, Y., Zhang, Q., Zhou, C., and Xiong, N., A Risk-Based Dynamic Decision-Making Approach for Cybersecurity Protection in Industrial Control Systems; *TSMC Oct. 2020 3863-3870*
- Qiu, J., see Li, Z., TSMC Nov. 2020 4224-4232
- Qiu, T., see Han, M., TSMC May 2020 1820-1832
- Qiu, Z., Zhuang, Y., Hu, H., and Wang, W., Using Stacked Sparse Auto-Encoder and Superpixel CRF for Long-Term Visual Scene Understanding of UGVs; *TSMC April 2020 1331-1342*
- Qu, T., see Yang, F., TSMC March 2020 871-883
- Qu, T., see Hafidi, Y., TSMC Oct. 2020 3577-3591
- Qu, X., see Zhang, Z., TSMC Dec. 2020 5106-5118
- Qu, Z., see An, V., TSMC June 2020 2157-2169
- Que, H., Wu, Z., Liu, Z., and Su, H., Adaptive Stabilization of Discrete-Time Nonminimum Phase Systems; *TSMC Aug. 2020 2828-2833*

## R

- Rachidi, S., see Lefebvre, D., TSMC Sept. 2020 3369-3381
- Rahwan, I., see Alqassem, I., TSMC Jan. 2020 21-31
- Rao, D.M.K.K.V., and Ukil, A., Modeling of Room Temperature Dynamics for Efficient Building Energy Management; *TSMC Feb. 2020 717-725*
- Razzaque, M.A., see Ferdous, J., TSMC Feb. 2020 455-467
- Rego, L.C., and Vieira, G.I.A., Interactive Unawareness in the Graph Model for Conflict Resolution; *TSMC March 2020 829-839*
- Rego, L.C., and Vieira, G.I.A., Maximin Stability in the Graph Model for Conflict Resolution for Bilateral Conflicts; TSMC Oct. 2020 3760-3769
- Rego, L.C., and Vieira, G.I.A., A Note on Policy Equilibrium and Generalized Metarationalities for Multiple Decision-Maker Conflicts; *TSMC Oct. 2020* 3757-3759
- Ren, H., Lu, R., Xiong, J., and Xu, Y., Optimal Estimation for Discrete-Time Linear System with Communication Constraints and Measurement Quantization; *TSMC May 2020 1932-1942*
- Ren, H., see Al Ghazo, A.T., TSMC Oct. 2020 3488-3498
- Ren, J., see Xu, X., TSMC Oct. 2020 3884-3897
- Ren, R., and Wu, D., An Innovative Sentiment Analysis to Measure Herd Behavior; TSMC Oct. 2020 3841-3851
- Ren, W., see Wang, J., TSMC Nov. 2020 4732-4745
- Ren, Y., Zhang, C., Zhao, F., Triebe, M.J., and Meng, L., An MCDM-Based Multiobjective General Variable Neighborhood Search Approach for Disassembly Line Balancing Problem; *TSMC Oct. 2020 3770-3783*
- Ren, Z., see Yu, J., TSMC April 2020 1465-1475
- Ren, Z., see Hua, Y., TSMC Oct. 2020 3795-3803
- Robb, A., see Galloway, G.S., TSMC April 2020 1252-1259
- Roberts, R., see An, V., TSMC June 2020 2157-2169
- Rodriguez, R.J., Bernardi, S., and Zimmermann, A., An Evaluation Framework for Comparative Analysis of Generalized Stochastic Petri Net Simulation Techniques; *TSMC Aug. 2020 2834-2844*
- Rong, C., see Yuan, Y., TSMC Jan. 2020 2-8
- Rong, L., Wang, S., Jiang, G., and Xu, S., Distributed Observer-Based Consensus Over Directed Networks With Limited Communication Bandwidth Constraints; *TSMC Dec. 2020 5361-5368*
- Roy, S., see Basu, S., TSMC July 2020 2338-2350
- Ryu, J., see Lee, C., TSMC April 2020 1384-1394

#### S

- Sadhu, A.K., and Konar, A., An Efficient Computing of Correlated Equilibrium for Cooperative *Q*-Learning-Based Multi-Robot Planning; *TSMC Aug. 2020* 2779-2794
- Saeedi, J., Feasibility Study and Conceptual Design of Missile-Borne Synthetic Aperture Radar; *TSMC March 2020 1122-1133*
- Sakthivel, R., Selvaraj, P., and Kaviarasan, B., Modified Repetitive Control Design for Nonlinear Systems With Time Delay Based on T–S Fuzzy Model; *TSMC Feb. 2020 646-655*
- Salah, K., see Mu, T., TSMC Nov. 2020 4183-4196

- Samidurai, R., see Manivannan, R., TSMC Nov. 2020 4243-4255
- Sankavaram, M.S., see Sidoti, D., TSMC March 2020 1055-1073
- Santoso, F., Garratt, M.A., Anavatti, S.G., and Petersen, I., Robust Hybrid Nonlinear Control Systems for the Dynamics of a Quadcopter Drone; *TSMC* Aug. 2020 3059-3071
- Sargolzaei, A., see Abbaspour, A., TSMC Sept. 2020 3401-3411
- Sarkani, S., see Friedel, J.E., TSMC June 2020 2208-2219
- Scotti, F., see Donida Labati, R., TSMC Jan. 2020 290-304
- Selvaraj, P., see Sakthivel, R., TSMC Feb. 2020 646-655
- Seow, K.T., Supervisory Control of Blockchain Networks; TSMC Jan. 2020 159-171
- Setola, R., see De Cillis, F., TSMC Feb. 2020 468-479
- Sforza, G., see Donida Labati, R., TSMC Jan. 2020 290-304
- Shahnazi, R., and Wang, W., Distributed Adaptive FBC of Uncertain Nonaffine Multiagent Systems Preceded by Unknown Input Nonlinearities With Unknown Gain Sign; TSMC Aug. 2020 3036-3046
- Shan, Q., see Li, Z., TSMC Dec. 2020 5317-5329
- Shan, X., see Li, B.N., TSMC March 2020 1111-1121
- Shang, Y., Chen, B., and Lin, C., Consensus Tracking Control for Distributed Nonlinear Multiagent Systems via Adaptive Neural Backstepping Approach; *TSMC July 2020 2436-2444*
- Shao, S., see Wang, X., TSMC Dec. 2020 4948-4958
- Sharifi, M., see Azimi, V., TSMC Aug. 2020 3024-3035
- She, J., see Chen, L., TSMC Feb. 2020 490-501
- Shen, B., see Guo, S., TSMC Feb. 2020 673-685
- Shen, B., see Chan, H., TSMC Dec. 2020 4856-4869
- Shen, C., Chen, Y., Yang, G., and Guan, X., Toward Hand-Dominated Activity Recognition Systems With Wristband-Interaction Behavior Analysis; *TSMC* July 2020 2501-2511
- Shen, C., see Liu, X., TSMC July 2020 2693-2704
- Shen, H., Xing, M., Yan, H., and Park, J.H., Extended Dissipative Filtering for Persistent Dwell-Time Switched Systems With Packet Dropouts; *TSMC Nov.* 2020 4796-4806
- Shen, H., see Yan, H., TSMC Nov. 2020 4643-4654
- Shen, L., see Zhao, S., TSMC Aug. 2020 2897-2904
- Shen, W., see Cao, Q., TSMC July 2020 2578-2587
- Shen, X., see Han, W., TSMC Feb. 2020 707-716
- Shen, Y., see Li, F., TSMC Feb. 2020 600-608
- Shen, Y., see Liu, Z., TSMC March 2020 815-828
- Shen, Y., see Lei, Y., TSMC Sept. 2020 3181-3188
- Shendge, P.D., see Lathkar, M.S., TSMC March 2020 840-850
- Sheng, C., see Xu, X., TSMC Feb. 2020 656-672
- Sheng, Y., Zhang, H., and Zeng, Z., Stability and Robust Stability of Stochastic Reaction–Diffusion Neural Networks With Infinite Discrete and Distributed Delays; *TSMC May 2020 1721-1732*
- Shi, B., see Wan, W., TSMC Jan. 2020 270-280
- Shi, C., see Li, Z., TSMC Dec. 2020 5296-5305
- Shi, H., and Tao, L., Fine-Grained Visual Comparison Based on Relative Attribute Quadratic Discriminant Analysis; *TSMC June 2020 2113-2119*
- Shi, K., see Chen, H., TSMC June 2020 2042-2055
- Shi, P., see Che, W., TSMC Feb. 2020 726-731
- Shi, P., see Wang, Q., TSMC Nov. 2020 4506-4512
- Shi, P., see Chen, H., TSMC Dec. 2020 5406-5419
- Shi, R., see Leng, J., TSMC Jan. 2020 182-192
- Shi, X., Chan, H., and Dong, C., Value of Bargaining Contract in a Supply Chain System With Sustainability Investment: An Incentive Analysis; TSMC April 2020 1622-1634
- Shi, Y., and Zhang, Y., New Discrete-Time Models of Zeroing Neural Network Solving Systems of Time-Variant Linear and Nonlinear Inequalities; *TSMC Feb.* 2020 565-576
- Shi, Y., see Chen, Y., TSMC Feb. 2020 700-706
- Shi, Y., see Yan, J., TSMC March 2020 884-898
- Shi, Y., see Li, T., TSMC April 2020 1218-1229
- Shi, Y., see Xia, Z., TSMC April 2020 1526-1536
- Shi, Y., see Zhao, C., TSMC Aug. 2020 2978-2988
- Shi, Z., see Gan, J., TSMC July 2020 2741-2751
- Shtessel, Y.B., see Basin, M.V., TSMC Dec. 2020 4974-4983

Shu, T., see Chen, J., TSMC Nov. 2020 4197-4211

- Sidoti, D., Han, X., Zhang, L., Avvari, G.V., Ayala, D.F.M., Mishra, M., Sankavaram, M.S., Kellmeyer, D.L., Hansen, J.A., and Pattipati, K.R., Context-Aware Dynamic Asset Allocation for Maritime Interdiction Operations; *TSMC March 2020 1055-1073*
- Sidoti, D., see Mishra, M., TSMC Jan. 2020 318-335
- Simon, D., see Azimi, V., TSMC Aug. 2020 3024-3035
- Simon, I.W., see Yang, F., TSMC Oct. 2020 3646-3657
- Song, D., see Zheng, W., TSMC Dec. 2020 4959-4973
- Song, J., Niu, Y., and Xu, J., An Event-Triggered Approach to Sliding Mode Control of Markovian Jump Lur'e Systems Under Hidden Mode Detections; *TSMC April 2020 1514-1525*
- Song, L., see Jiang, K., TSMC April 2020 1570-1579
- Song, L., see Yang, Z., TSMC Aug. 2020 2958-2968
- Song, R., Li, J., and Lewis, F.L., Robust Optimal Control for Disturbed Nonlinear Zero-Sum Differential Games Based on Single NN and Least Squares; *TSMC Nov. 2020 4009-4019*
- Song, S., Zhang, B., Xia, J., and Zhang, Z., Adaptive Backstepping Hybrid Fuzzy Sliding Mode Control for Uncertain Fractional-Order Nonlinear Systems Based on Finite-Time Scheme; *TSMC April 2020 1559-1569*
- Song, T., Li, D., Jin, Q., and Hirasawa, K., Sparse Proximal Reinforcement Learning via Nested Optimization; *TSMC Nov. 2020 4020-4032*
- Song, Y., Wang, Z., Liu, S., and Wei, G., N-Step MPC for Systems With Persistent Bounded Disturbances Under SCP; TSMC Nov. 2020 4762-4772
- Sousa, L., see Entezari-Maleki, R., TSMC March 2020 947-961
- Spanos, C.J., see Nguyen, L., TSMC Dec. 2020 5306-5316
- Sriboonchitta, S., see Nguyen, V., TSMC April 2020 1318-1330
- Stavrou, A., see Yuan, Y., TSMC Jan. 2020 2-8
- Su, C., see Fu, J., TSMC June 2020 2150-2156
- Su, C., see Li, Z., TSMC Dec. 2020 5296-5305
- Su, C., see Xu, Y., TSMC Jan. 2020 211-219
- Su, H., see Che, W., TSMC Feb. 2020 726-731
- Su, H., see Tao, J., TSMC July 2020 2760-2765
- Su, H., see Que, H., TSMC Aug. 2020 2828-2833
- Su, H., and Zhang, W., Adaptive Fuzzy Tracking Control for a Class of Nonstrict-Feedback Stochastic Nonlinear Systems With Actuator Faults; *TSMC* Sept. 2020 3456-3469
- Su, H., see Yue, H., TSMC Oct. 2020 3528-3540
- Su, H., Zhang, H., Gao, D.W., and Luo, Y., Adaptive Dynamics Programming for H<sub>∞</sub> Control of Continuous-Time Unknown Nonlinear Systems via Generalized Fuzzy Hyperbolic Models; *TSMC Nov. 2020 3996-4008*
- Su, H., see Zhang, H., TSMC Nov. 2020 4135-4150
- Su, H., see Zhao, Y., TSMC Dec. 2020 5221-5232
- Su, R., see Yang, F., TSMC March 2020 871-883
- Su, R., see Yang, F., TSMC Oct. 2020 3646-3657
- Su, S., see Tran, Q., TSMC July 2020 2659-2670
- Su, Z., see Zhang, G., TSMC March 2020 785-801
- Su, Z., Zhao, G., Yang, J., and Li, Y., Disturbance Rejection of Nonlinear Boiler–Turbine Unit Using High-Order Sliding Mode Observer; *TSMC Dec.* 2020 5432-5443
- Sun, C., see Wang, Q., TSMC June 2020 2181-2186
- Sun, C., see Wang, Y., TSMC Oct. 2020 3713-3725
- Sun, C., see Mu, C., TSMC Nov. 2020 4056-4067
- Sun, F., see Cao, L., TSMC April 2020 1350-1361
- Sun, F., see Liu, H., TSMC July 2020 2466-2474
- Sun, J., see Peng, X., TSMC April 2020 1610-1621
- Sun, J., see Chen, G., TSMC July 2020 2671-2684
- Sun, J., see Wang, Z., TSMC July 2020 2566-2577
- Sun, J., see Yan, H., TSMC Sept. 2020 3320-3329
- Sun, J., see Wang, Y., TSMC Oct. 2020 3713-3725
- Sun, J., see Yu, Z., TSMC Nov. 2020 4545-4556
- Sun, J., Yi, J., Pu, Z., and Tan, X., Fixed-Time Sliding Mode Disturbance Observer-Based Nonsmooth Backstepping Control for Hypersonic Vehicles; *TSMC Nov. 2020 4377-4386*
- Sun, M., Two-Phase Attractors for Finite-Duration Consensus of Multiagent Systems; TSMC May 2020 1757-1765

- Sun, S., Wang, S., Wei, Y., and Zhang, G., A Clustering-Based Nonlinear Ensemble Approach for Exchange Rates Forecasting; *TSMC June 2020 2284-2292* Sun, S.X., see Yan, J., *TSMC March 2020 884-898*
- Sun, T., Zhou, D., Zhu, Y., and Basin, M.V., Stability, l<sub>2</sub>-Gain Analysis, and Parity Space-Based Fault Detection for Discrete-Time Switched Systems Under Dwell-Time Switching; *TSMC Sept. 2020 3358-3368*
- Sun, W., see Pan, H., TSMC May 2020 1766-1776
- Sun, W., see Peng, Y., TSMC Nov. 2020 4109-4122
- Sun, X., see Xia, Z., TSMC April 2020 1526-1536
- Sun, X., see Zhang, D., TSMC May 2020 1833-1839
- Sun, X., see Liu, L., TSMC June 2020 2305-2314
- Sun, X., Wang, X., and Mazenc, F., Delay-Hybrid-Dependent Stability for Systems With Large Delays; TSMC July 2020 2752-2759
- Sun, X., see He, Y., TSMC Oct. 2020 3554-3561
- Sun, X., see Li, P., TSMC Nov. 2020 4482-4491
- Sun, X., and Zhang, Q., Observer-Based Adaptive Sliding Mode Control for T–S Fuzzy Singular Systems; TSMC Nov. 2020 4438-4446
- Sun, Y., see Du, J., TSMC Jan. 2020 193-202
- Sun, Z., Dababneh, F., and Li, L., Joint Energy, Maintenance, and Throughput Modeling for Sustainable Manufacturing Systems; *TSMC June 2020 2101-*2112
- Sun, Z., see Xu, X., TSMC Oct. 2020 3884-3897
- Svetinovic, D., see Chang, T., TSMC Jan. 2020 9-20
- Svetinovic, D., see Alqassem, I., TSMC Jan. 2020 21-31

#### Т

- Talebi, H.A., see Arefinia, E., TSMC Feb. 2020 409-420
- Tamura, K., and Yasuda, K., The Spiral Optimization Algorithm: Convergence Conditions and Settings; TSMC Jan. 2020 360-375
- Tan, F., and Guan, X., Research Progress on Intelligent System's Learning, Optimization, and Control—Part II: Online Sparse Kernel Adaptive Algorithm; *TSMC Dec. 2020 5369-5385*
- Tan, G., see Jang, S., TSMC April 2020 1286-1299
- Tan, J., see Yang, Y., TSMC May 2020 1733-1745
- Tan, L.N., Distributed H<sub>∞</sub> Optimal Tracking Control for Strict-Feedback Nonlinear Large-Scale Systems With Disturbances and Saturating Actuators; *TSMC Nov. 2020 4719-4731*
- Tan, M., see Liu, H., TSMC April 2020 1549-1558
- Tan, M., see Cao, Z., TSMC Jan. 2020 376-384
- Tan, Q., see Dong, R., TSMC Aug. 2020 2969-2977
- Tan, X., see Sun, J., TSMC Nov. 2020 4377-4386
- Tan, X., see Li, Q., TSMC Dec. 2020 4905-4918
- Tan, Y., see Cao, Q., TSMC July 2020 2578-2587
- Tan, Y., see Dong, R., TSMC Aug. 2020 2969-2977
- Tang, H., Duan, J., and Lu, S., Stream-of-Variation (SOV) Theory Applied in Geometric Error Modeling for Six-Axis Motion Platform; *TSMC March* 2020 762-770
- Tang, L., see Liu, L., TSMC Aug. 2020 3100-3104
- Tang, L., see Zhuang, J., TSMC Nov. 2020 4807-4816
- Tang, L., Ma, D., and Zhao, J., Neural Networks-Based Active Fault-Tolerant Control for a Class of Switched Nonlinear Systems With Its Application to RCL Circuit; *TSMC Nov. 2020 4270-4282*
- Tang, L., see Wang, X., TSMC Dec. 2020 5338-5350
- Tang, Q., see Yuan, Y., TSMC Jan. 2020 2-8
- Tang, T., see Dong, H., TSMC March 2020 1013-1023
- Tang, X., Xiao, B., and Li, K., Indoor Crowd Density Estimation Through Mobile Smartphone Wi-Fi Probes; *TSMC July 2020 2638-2649*
- Tang, Y., Zhang, D., Ho, D.W., Yang, W., and Wang, B., Event-Based Tracking Control of Mobile Robot With Denial-of-Service Attacks; *TSMC Sept. 2020* 3300-3310
- Tang, Y., Distributed Optimal Steady-State Regulation for High-Order Multiagent Systems With External Disturbances; TSMC Nov. 2020 4828-4835
- Tang, Z., Park, J.H., Wang, Y., and Feng, J., Parameters Variation-Based Synchronization on Derivative Coupled Lur'e Networks; *TSMC Dec. 2020* 5395-5405
- Tani, J., see Hwang, J., TSMC May 2020 1918-1931

- Tao, F., see Cheng, Y., TSMC Dec. 2020 5000-5014
- Tao, J., Wu, Z., Su, H., and Wu, Y., Reliable Control for Two-Dimensional Systems Subject to Extended Dissipativity; *TSMC July 2020 2760-2765*
- Tao, L., see Shi, H., TSMC June 2020 2113-2119
- Tao, X., Zhang, D., Wang, Z., Liu, X., Zhang, H., and Xu, D., Detection of Power Line Insulator Defects Using Aerial Images Analyzed With Convolutional Neural Networks; *TSMC April 2020 1486-1498*
- Tarani, F., see Carnevali, L., TSMC May 2020 1704-1720
- Tavakoli, M., see Li, W., TSMC Jan. 2020 336-347
- Teng, J., see Li, Z., TSMC Nov. 2020 4224-4232
- Teoh, A.B.J., see Jang, S., TSMC April 2020 1286-1299
- Thondiyath, A., see Chandra, S., TSMC Dec. 2020 5420-5431
- Tian, F., see Fu, J., TSMC June 2020 2150-2156
- Toh, K., see Jang, S., TSMC April 2020 1286-1299
- Tong, S., see Huang, L., TSMC Feb. 2020 550-564
- Tong, S., see Li, K., TSMC Dec. 2020 5271-5284
- Tong, S., see Liu, Y., TSMC Dec. 2020 5351-5360
- Tran, D.H., Hamker, F., and Nassour, J., A Humanoid Robot Learns to Recover Perturbation During Swinging Motion; *TSMC Oct. 2020 3701-3712*
- Tran, Q., Su, S., and Nguyen, V., Pyramidal Lucas—Kanade-Based Noncontact Breath Motion Detection; *TSMC July 2020 2659-2670*
- Triebe, M.J., see Ren, Y., TSMC Oct. 2020 3770-3783
- Tsai, J., Chou, P., and Chou, J., Color Filter Polishing Optimization Using ANFIS With Sliding-Level Particle Swarm Optimizer; *TSMC March 2020* 1193-1207
- Tsai, J., Lin, C., and Chou, J., Intelligent Data-Driven Adaptive Method for Optimizing System Integration Scaling Factors for Touch Panel Lamination Machines; TSMC April 2020 1300-1309
- Tsai, T., see King, J., TSMC Nov. 2020 4408-4414

#### U

Ukil, A., see Rao, D.M.K.K.V., *TSMC Feb. 2020 717-725* 

- Ukovich, W., see Fanti, M.P., TSMC March 2020 1161-1177
- Ulya, M.A., see Chen, C., TSMC Dec. 2020 4870-4881

Umpfenbach, E., see Bayrak, A.E., TSMC July 2020 2716-2728

#### V

- Vafamand, N., Asemani, M.H., Khayatiyan, A., Khooban, M.H., and Dragicevic, T., TS Fuzzy Model-Based Controller Design for a Class of Nonlinear Systems Including Nonsmooth Functions; *TSMC Jan. 2020 233-244*
- Valaee, S., see Vedadi, F., TSMC Jan. 2020 305-317
- Valavanis, K.P., see Dong, H., TSMC March 2020 1013-1023
- Vargas, A.N., Montezuma, M.A.F., Liu, X., Xu, L., and Yu, X., Sliding-Mode Control for Stabilizing High-Order Stochastic Systems: Application to One-Degree-of-Freedom Aerial Device; *TSMC Nov. 2020* 4318-4325
- Vedadi, F., and Valaee, S., Automatic Visual Fingerprinting for Indoor Image-Based Localization Applications; *TSMC Jan. 2020 305-317*
- Vicario, E., see Carnevali, L., TSMC May 2020 1704-1720
- Vieira, G.I.A., see Rego, L.C., TSMC March 2020 829-839
- Vieira, G.I.A., see Rego, L.C., TSMC Oct. 2020 3760-3769
- Vieira, G.I.A., see Rego, L.C., TSMC Oct. 2020 3757-3759
- Virtanen, K., see Laitila, P., TSMC May 2020 1943-1955
- Vyatkin, V., see Dai, W., TSMC March 2020 851-862

#### W

- Wan, W., Shi, B., Wang, Z., and Fukui, R., Multirobot Object Transport via Robust Caging; *TSMC Jan. 2020 270-280*
- Wan, Y., Cao, J., Huang, W., Guo, J., and Wei, Y., Perimeter Control of Multiregion Urban Traffic Networks With Time-Varying Delays; *TSMC Aug. 2020* 2795-2803
- Wang, B., see Tang, Y., TSMC Sept. 2020 3300-3310
- Wang, B., see Zhou, Z., TSMC Jan. 2020 43-57
- Wang, B., see Deng, S., TSMC Jan. 2020 123-136
- Wang, C., see Wang, G., TSMC Feb. 2020 421-431

- Wang, C., Guo, L., Wen, C., Hu, Q., and Qiao, J., Adaptive Neural Network Control for a Class of Nonlinear Systems With Unknown Control Direction; *TSMC Nov. 2020 4708-4718*
- Wang, D., see Ha, M., TSMC Sept. 2020 3158-3168
- Wang, D., see Liang, M., TSMC Nov. 2020 3972-3985
- Wang, D., see Hou, J., TSMC Nov. 2020 4097-4108
- Wang, D., Zhou, J., Wang, Z., and Wang, W., Random Gradient-Free Optimization for Multiagent Systems With Communication Noises Under a Time-Varying Weight Balanced Digraph; *TSMC Jan. 2020 281-289*
- Wang, F., see Chen, L., TSMC Feb. 2020 397-408
- Wang, F., see Cao, J., TSMC May 2020 1638-1648
- Wang, F., see Yuan, Y., TSMC Jan. 2020 2-8
- Wang, F., Wang, Z., Liang, J., and Liu, X., Robust Finite-Horizon Filtering for 2-D Systems With Randomly Varying Sensor Delays; *TSMC Jan. 2020 220-232*
- Wang, G., Wang, C., and Li, L., Fully Distributed Low-Complexity Control for Nonlinear Strict-Feedback Multiagent Systems With Unknown Dead-Zone Inputs; *TSMC Feb. 2020 421-431*
- Wang, G., see Yang, X., TSMC Jan. 2020 58-72
- Wang, G., see Deng, S., TSMC Jan. 2020 123-136
- Wang, H., see Li, M., TSMC March 2020 1208-1215
- Wang, H., see Yan, J., TSMC March 2020 884-898
- Wang, H., see Liu, Z., TSMC March 2020 815-828
- Wang, H., Wu, J., Zhu, X., Chen, Y., and Zhang, C., Time-Variant Graph Classification; TSMC Aug. 2020 2883-2896
- Wang, H., and Yang, G., Fault Detection Approaches for Fuzzy Large-Scale Systems With Unknown Membership Functions; *TSMC Sept. 2020 3333-3343*
- Wang, H., see Xiong, F., TSMC Oct. 2020 3804-3816
- Wang, H., see Wang, X., TSMC Dec. 2020 5189-5200
- Wang, J., see Han, W., TSMC Feb. 2020 707-716
- Wang, J., Dong, J., Yue, X., and Zhong, Q., Information Sharing in a Supply Chain With a Coopetitive Contract Manufacturer; *TSMC May 2020 1777-1793*
- Wang, J., and Wang, L., A Knowledge-Based Cooperative Algorithm for Energy-Efficient Scheduling of Distributed Flow-Shop; TSMC May 2020 1805-1819
- Wang, J., see Chen, K., TSMC July 2020 2351-2361
- Wang, J., see Gan, J., TSMC July 2020 2741-2751
- Wang, J., see Zhou, Y., TSMC Aug. 2020 3086-3099
- Wang, J., Ren, W., Zhang, Z., Huang, H., and Zhou, Y., A Hybrid Multiobjective Memetic Algorithm for Multiobjective Periodic Vehicle Routing Problem With Time Windows; *TSMC Nov. 2020* 4732-4745
- Wang, J., see Yan, H., TSMC Nov. 2020 4643-4654
- Wang, J., see Guo, Z., TSMC Nov. 2020 4458-4471
- Wang, J., see Li, Y., TSMC Nov. 2020 4326-4338
- Wang, J., and Pham, K.D., An Approximate Distributed Gradient Estimation Method for Networked System Optimization Under Limited Communications: *TSMC Dec.* 2020 5142-5151
- Wang, L., see Zhang, C., TSMC Feb. 2020 577-589
- Wang, L., see Li, F., TSMC Feb. 2020 600-608
- Wang, L., see Gong, W., TSMC April 2020 1499-1513
- Wang, L., see Liao, Z., TSMC April 2020 1590-1601
- Wang, L., see Wang, J., TSMC May 2020 1805-1819
- Wang, L., see Zhang, C., TSMC July 2020 2685-2692
- Wang, M., see Li, B.N., TSMC March 2020 1111-1121
- Wang, M., see Zhang, Y., *TSMC June 2020 2068-2082*
- wang, w., see Zhang, 1., *ISMC June* 2020 2000-2002
- Wang, M., Liu, Y., and Man, Y., Switching Adaptive Controller for the Nonlinear Systems With Uncertainties From Unknown Powers; *TSMC July 2020* 2375-2385
- Wang, M., Ding, Z., Liu, G., Jiang, C., and Zhou, M., Measurement and Computation of Profile Similarity of Workflow Nets Based on Behavioral Relation Matrix; *TSMC Oct. 2020 3628-3645*
- Wang, M., Ding, Z., Zhao, P., Yu, W., and Jiang, C., A Dynamic Data Slice Approach to the Vulnerability Analysis of E-Commerce Systems; *TSMC* Oct. 2020 3598-3612

- Wang, M., Zhang, L., and Choi, T., Bi-Objective Optimal Scheduling With Raw Material's Shelf-Life Constraints in Unrelated Parallel Machines Production; *TSMC Nov. 2020 4598-4610*
- Wang, P., see Liu, P., TSMC Oct. 2020 3741-3756
- Wang, Q., and Sun, C., Adaptive Consensus of Multiagent Systems With Unknown High-Frequency Gain Signs Under Directed Graphs; *TSMC June* 2020 2181-2186
- Wang, Q., Wu, Z., Shi, P., Yan, H., and Chen, Y., Stability Analysis and Control for Switched System With Bounded Actuators; *TSMC Nov. 2020* 4506-4512
- Wang, R., see Li, X., TSMC May 2020 1690-1695
- Wang, R., see Jia, Y., TSMC May 2020 1794-1804
- Wang, S., and Cao, L., Inferring Implicit Rules by Learning Explicit and Hidden Item Dependency; TSMC March 2020 935-946
- Wang, S., see Cao, J., TSMC May 2020 1638-1648
- Wang, S., see Sun, S., TSMC June 2020 2284-2292
- Wang, S., see Zhang, Y., TSMC Aug. 2020 2996-3009
- Wang, S., see Rong, L., TSMC Dec. 2020 5361-5368
- Wang, S., see Yuan, Y., TSMC Jan. 2020 2-8
- Wang, W., see Qiu, Z., TSMC April 2020 1331-1342
- Wang, W., see Li, X., TSMC May 2020 1690-1695
- Wang, W., see Shahnazi, R., TSMC Aug. 2020 3036-3046
- Wang, W., see Zhao, J., TSMC Nov. 2020 4773-4786
- Wang, W., Chen, X., Fu, H., and Wu, M., Model-Free Distributed Consensus Control Based on Actor–Critic Framework for Discrete-Time Nonlinear Multiagent Systems; *TSMC Nov. 2020 4123-4134*
- Wang, W., see Wang, D., TSMC Jan. 2020 281-289
- Wang, X., see Chen, X., TSMC March 2020 1095-1110
- Wang, X., Huang, W., Cheng, Y., Yu, Q., and Wei, Z., Multisource Domain Attribute Adaptation Based on Adaptive Multikernel Alignment Learning; *TSMC May 2020 1897-1908*
- Wang, X., see Cao, J., TSMC May 2020 1638-1648
- Wang, X., Lu, J., and Wu, X., Recovering Network Structures With Time-Varying Nodal Parameters; TSMC July 2020 2588-2598
- Wang, X., see Sun, X., TSMC July 2020 2752-2759
- Wang, X., see Liu, M., TSMC July 2020 2541-2550
- Wang, X., see Zhao, S., TSMC Aug. 2020 2897-2904
- Wang, X., Chen, C., Cheng, Y., Chen, X., and Liu, Y., Zero-Shot Learning Based on Deep Weighted Attribute Prediction; *TSMC Aug. 2020 2948-2957*
- Wang, X., and Yang, G., Distributed Event-Triggered  $H_{\infty}$  Filtering for Discrete-Time T–S Fuzzy Systems Over Sensor Networks; *TSMC Sept. 2020* 3269-3280
- Wang, X., see Xiong, F., TSMC Oct. 2020 3804-3816
- Wang, X., see Feng, Y., TSMC Oct. 2020 3515-3527
- Wang, X., and Hu, H., A Robust Control Approach to Automated Manufacturing Systems Allowing Multitype and Multiquantity of Resources With Petri Nets; *TSMC Oct. 2020 3499-3514*
- Wang, X., Dong, Z., and Tang, L., Multiobjective Differential Evolution With Personal Archive and Biased Self-Adaptive Mutation Selection; *TSMC Dec.* 2020 5338-5350
- Wang, X., Wang, H., Li, C., Huang, T., and Kurths, J., Consensus Seeking in Multiagent Systems With Markovian Switching Topology Under Aperiodic Sampled Data; *TSMC Dec. 2020 5189-5200*
- Wang, X., Choi, T., Li, Z., and Shao, S., An Effective Local Search Algorithm for the Multidepot Cumulative Capacitated Vehicle Routing Problem; *TSMC Dec.* 2020 4948-4958
- Wang, X., and Hu, H., A Robust Control Approach to Automated Manufacturing Systems Combining Absorbing and Distributing Characteristics; *TSMC Dec.* 2020 5024-5036
- Wang, X.P., see Eltoukhy, A.E.E., TSMC Dec. 2020 4919-4932
- Wang, Y., see Li, F., TSMC Feb. 2020 600-608
- Wang, Y., Lai, X., Zhang, P., and Wu, M., Control Strategy Based on Model Reduction and Online Intelligent Calculation for Planar n-Link Underactuated Manipulators; *TSMC March 2020 1046-1054*
- Wang, Y., see Gong, W., TSMC April 2020 1499-1513
- Wang, Y., Li, Y., Ma, Z., Cai, G., and Chen, G., Cluster Lag Consensus for Second-Order Multiagent Systems with Nonlinear Dynamics and Switching Topologies; *TSMC June 2020 2093-2100*

Wang, Y., see Zhao, L., TSMC July 2020 2650-2658

5462

- Wang, Y., see Lai, X., TSMC July 2020 2534-2540
- Wang, Y., Dai, W., Jin, Q., and Ma, J., BciNet: A Biased Contest-Based Crowdsourcing Incentive Mechanism Through Exploiting Social Networks; *TSMC* Aug. 2020 2926-2937
- Wang, Y., see Ge, X., TSMC Sept. 2020 3112-3125
- Wang, Y., see Zhou, T., TSMC Sept. 2020 3136-3144
- Wang, Y., see Lei, Y., TSMC Sept. 2020 3181-3188
- Wang, Y., Sun, J., He, H., and Sun, C., Deterministic Policy Gradient With Integral Compensator for Robust Quadrotor Control; *TSMC Oct. 2020 3713-3725*
- Wang, Y., and Li, H., Interpoint Similarity-Based Uncertainty Measure for Robust Learning; TSMC Dec. 2020 5386-5394
- Wang, Y., see He, X., TSMC Dec. 2020 5285-5295
- Wang, Y., see He, X., TSMC Dec. 2020 5285-5295
- Wang, Y., see Tang, Z., TSMC Dec. 2020 5395-5405
- Wang, Z., see Tao, X., TSMC April 2020 1486-1498
- Wang, Z., Liu, L., Li, T., and Zhang, H., Minimum-Learning-Parameters-Based Adaptive Neural Fault Tolerant Control With Its Application to Continuous Stirred Tank Reactor; *TSMC April 2020 1275-1285*
- Wang, Z., see Luo, Y., TSMC May 2020 1964-1975
- Wang, Z., see Pan, H., TSMC May 2020 1766-1776
- Wang, Z., see Zhao, D., TSMC June 2020 2170-2180
- Wang, Z., see Chang, B., TSMC June 2020 2242-2256
- Wang, Z., Wu, H., and Li, H., Estimator-Based H<sub>∞</sub> Sampled-Data Fuzzy Control for Nonlinear Parabolic PDE Systems; *TSMC July 2020 2491-2500*
- Wang, Z., Sun, J., and Zhang, H., Stability Analysis of T–S Fuzzy Control System With Sampled-Dropouts Based on Time-Varying Lyapunov Function Method; *TSMC July 2020 2566-2577*
- Wang, Z., and He, H., Asynchronous Quasi-Consensus of Heterogeneous Multiagent Systems With Nonuniform Input Delays; *TSMC Aug. 2020 2815-2827*
- Wang, Z., see Dong, H., TSMC Aug. 2020 2938-2947
- Wang, Z., see Ma, L., TSMC Sept. 2020 3258-3268
- Wang, Z., see Yuan, Y., TSMC Sept. 2020 3391-3400
- Wang, Z., see Song, Y., TSMC Nov. 2020 4762-4772
- Wang, Z., see Wan, W., TSMC Jan. 2020 270-280
- Wang, Z., see Wang, F., TSMC Jan. 2020 220-232
- Wang, Z., see Wang, D., TSMC Jan. 2020 281-289
- Wang, Z.X., see Eltoukhy, A.E.E., TSMC Dec. 2020 4919-4932
- Wei, G., see Li, J., TSMC May 2020 1909-1917
- Wei, G., see Luo, Y., TSMC May 2020 1964-1975
- Wei, G., see Zhao, D., TSMC June 2020 2170-2180
- Wei, G., Li, W., Ding, D., and Liu, Y., Stability Analysis of Covariance Intersection-Based Kalman Consensus Filtering for Time-Varying Systems; *TSMC Nov. 2020 4611-4622*
- Wei, G., see Song, Y., TSMC Nov. 2020 4762-4772
- Wei, J., see Cheng, H., TSMC May 2020 1850-1864
- Wei, L., see Leng, J., TSMC Jan. 2020 182-192
- Wei, Q., see Liu, D., TSMC Nov. 2020 3944-3947
- Wei, Q., see Li, Z., TSMC Dec. 2020 5296-5305
- Wei, Y., see Sun, S., TSMC June 2020 2284-2292
- Wei, Y., see Wan, Y., TSMC Aug. 2020 2795-2803
- Wei, Z., see Ge, Q., TSMC March 2020 899-910
- Wei, Z., see Wang, X., TSMC May 2020 1897-1908
- Wen, C., see Zhang, C., TSMC Feb. 2020 577-589
- Wen, C., see Ge, Q., TSMC March 2020 899-910

+ Check author entry for coauthors

- Wen, C., see Zhang, C., TSMC July 2020 2685-2692
- Wen, C., see Wang, C., TSMC Nov. 2020 4708-4718
- Wen, G., Yu, W., Chen, M.Z.Q., Yu, X., and Chen, G., Pinning a Complex Network to Follow a Target System With Predesigned Control Inputs; *TSMC June 2020 2293-2304*
- Wen, X., Xu, X., Choi, T., and Chung, S., Optimal Pricing Decisions of Competing Air-Cargo-Carrier Systems—Impacts of Risk Aversion, Demand, and Cost Uncertainties; *TSMC Dec. 2020 4933-4947*
- Wisniewski, R., see Karatkevich, A.G., TSMC Oct. 2020 3592-3597

- Wisniewski, R., Zhou, M., Gomes, L., Fanti, M.P., and Kumar, R., Special Issue on Recent Advances in Petri Nets, Automata, and Discrete-Event Hybrid Systems; *TSMC Oct. 2020 3484-3487*
- Wonham, W.M., see Jiao, T., TSMC June 2020 2056-2067
- Wu, D., see Ren, R., TSMC Oct. 2020 3841-3851
- Wu, D., see Yuan, Y., TSMC Jan. 2020 2-8
- Wu, D.D., see Liang, L., TSMC April 2020 1242-1251
- Wu, D.D., see Olson, D.L., TSMC Oct. 2020 3728-3730
- Wu, G., see Yang, Z., TSMC Aug. 2020 2958-2968
- Wu, H., see Wang, Z., TSMC July 2020 2491-2500
- Wu, H., see Luo, B., TSMC Nov. 2020 3948-3958
- Wu, H., and Liu, Z., Data-Driven Guaranteed Cost Control Design via Reinforcement Learning for Linear Systems With Parameter Uncertainties; *TSMC Nov. 2020 4151-4159*
- Wu, J., see Cui, L., TSMC May 2020 1663-1678
- Wu, J., see Deng, Y., TSMC Aug. 2020 2905-2913
- Wu, J., see Wang, H., TSMC Aug. 2020 2883-2896
- Wu, J., see Chen, Y., TSMC Dec. 2020 5076-5091
- Wu, L., see Yao, X., TSMC April 2020 1476-1485
- Wu, L., and Park, J.H., Adaptive Fault-Tolerant Control of Uncertain Switched Nonaffine Nonlinear Systems With Actuator Faults and Time Delays; *TSMC* Sept. 2020 3470-3480
- Wu, L., see Liu, S., TSMC Sept. 2020 3311-3319
- Wu, M., see Chen, L., TSMC Feb. 2020 490-501
- Wu, M., see Wang, Y., TSMC March 2020 1046-1054
- Wu, M., see Lai, X., TSMC July 2020 2534-2540
- Wu, M., see Zhi, Y., TSMC Oct. 2020 3936-3942
- Wu, M., see Wang, W., TSMC Nov. 2020 4123-4134
- Wu, N., see Yang, F., TSMC March 2020 871-883
- Wu, N., see Yang, F., TSMC Oct. 2020 3646-3657
- Wu, N., see Karoui, O., TSMC Oct. 2020 3613-3627
- Wu, N., see Zhu, Q., TSMC Dec. 2020 5015-5023
- Wu, P., Chu, F., Che, A., and Zhao, Y., Dual-Objective Optimization for Lane Reservation With Residual Capacity and Budget Constraints; *TSMC June* 2020 2187-2197
- Wu, Q., see Qiao, F., TSMC May 2020 1679-1689
- Wu, Q., see Fan, J., TSMC Nov. 2020 4033-4042
- Wu, S., see Jin, Q., TSMC April 2020 1310-1317
- Wu, S., see Jin, Q., TSMC May 2020 1877-1884
- Wu, W., see Yue, H., TSMC Oct. 2020 3528-3540
- Wu, X., see Wang, X., TSMC July 2020 2588-2598
- Wu, X., see Han, H., TSMC Nov. 2020 4415-4424
- Wu, X., see Lai, Z., TSMC Nov. 2020 4349-4361
- Wu, X., see Yue, M., TSMC Dec. 2020 5180-5188
- Wu, Y., see Zhang, D., TSMC May 2020 1833-1839
- Wu, Y., Guang, Y., He, S., and Xin, M., An Industrial-Based Framework for Distributed Control of Heterogeneous Network Systems; *TSMC June 2020* 2120-2128
- Wu, Y., see Tao, J., TSMC July 2020 2760-2765
- Wu, Y., Li, Y., He, S., and Guan, Y., Sampled-Data Synchronization of Network Systems in Industrial Manufacture; *TSMC Sept. 2020 3210-3219*
- Wu, Y., see He, Y., TSMC Oct. 2020 3554-3561
- Wu, Z., see Che, W., TSMC Feb. 2020 726-731
- Wu, Z., see Xu, Y., TSMC April 2020 1455-1464
- Wu, Z., see Tao, J., TSMC July 2020 2760-2765
- Wu, Z., see Chen, X., TSMC July 2020 2327-2337
- Wu, Z., see Que, H., TSMC Aug. 2020 2828-2833
- Wu, Z., Li, Z., Ding, Z., and Li, Z., Distributed Continuous-Time Optimization With Scalable Adaptive Event-Based Mechanisms; *TSMC Sept. 2020 3252-3257*
- Wu, Z., see Wang, Q., TSMC Nov. 2020 4506-4512

Х

- Xi, C., see Zhai, D., TSMC May 2020 1840-1849
- Xia, H., see Pang, Y., *TSMC June 2020 2129-2138* Xia, J., see Song, S., *TSMC April 2020 1559-1569*

- Xia, Y., see Zhuang, J., TSMC Nov. 2020 4807-4816
- Xia, Y., see Yuan, H., TSMC Jan. 2020 111-122
- Xia, Z., Yuan, C., Lv, R., Sun, X., Xiong, N.N., and Shi, Y., A Novel Weber Local Binary Descriptor for Fingerprint Liveness Detection; *TSMC April* 2020 1526-1536
- Xiang, K., see Li, B.N., TSMC March 2020 1111-1121
- Xiang, Y., see Yang, Z., TSMC July 2020 2524-2533
- Xiang, Y., see Zhou, Y., TSMC Aug. 2020 3086-3099
- Xiao, B., see Tang, X., TSMC July 2020 2638-2649
- Xiao, G., see Zhang, H., TSMC Feb. 2020 432-441
- Xiao, G., see Jiao, T., TSMC June 2020 2056-2067
- Xiao, G., see Zhang, H., TSMC Sept. 2020 3169-3180
- Xiao, G., see Zhang, H., TSMC Nov. 2020 3986-3995
- Xiao, L., Li, S., Li, K., Jin, L., and Liao, B., Co-Design of Finite-Time Convergence and Noise Suppression: A Unified Neural Model for Time Varying Linear Equations With Robotic Applications; *TSMC Dec. 2020 5233-5243*
- Xiao, P., Yin, Y., Liu, B., Jiang, B., and Malaiya, Y.K., Adaptive Testing Based on Moment Estimation; *TSMC March 2020 911-922*
- Xiao, S., and Dong, J., Robust Adaptive Fault-Tolerant Tracking Control for Uncertain Linear Systems With Actuator Failures Based on the Closed-Loop Reference Model; *TSMC Sept. 2020 3448-3455*
- Xiao, Y., see Deng, Y., TSMC Aug. 2020 2905-2913
- Xie, L., see Ma, C., TSMC May 2020 1976-1981
- Xie, S., see Yang, Z., TSMC July 2020 2524-2533
- Xie, S., Xie, Y., Li, F., Yang, C., and Gui, W., Optimal Setting and Control for Iron Removal Process Based on Adaptive Neural Network Soft-Sensor; *TSMC July 2020 2408-2420*
- Xie, W., and Zhu, Q., Self-Triggered State-Feedback Control for Stochastic Nonlinear Systems With Markovian Switching; *TSMC Sept. 2020 3200-3209*
- Xie, X., see Zhou, X., TSMC Nov. 2020 4836-4849
- Xie, X., see Yang, D., TSMC Nov. 2020 4086-4096
- Xie, X., Yue, D., and Park, J.H., Reducing the Conservatism of Stabilization for Discrete-Time Takagi–Sugeno Fuzzy Systems via a New Extended Representation Approach; *TSMC Nov. 2020 4387-4393*
- Xie, Y., see Xie, S., TSMC July 2020 2408-2420
- Xie, Y., see Cheng, Y., TSMC Dec. 2020 5000-5014
- Xin, M., see Wu, Y., TSMC June 2020 2120-2128
- Xing, D., see Qin, F., TSMC March 2020 1024-1034
- Xing, K., see Feng, Y., TSMC Feb. 2020 525-538
- Xing, K., see Feng, Y., TSMC Oct. 2020 3515-3527
- Xing, K., see Yue, H., TSMC Oct. 2020 3528-3540
- Xing, K., see Luo, J., TSMC Oct. 2020 3658-3669
- Xing, L., see Mo, Y., TSMC Oct. 2020 3912-3924
- Xing, M., see Shen, H., TSMC Nov. 2020 4796-4806
- Xing, M., Deng, F., and Hu, Z., Sampled-Data Consensus for Multiagent Systems With Time Delays and Packet Losses; *TSMC Jan. 2020 203-210*
- Xing, Z., see Liu, Y., TSMC Nov. 2020 4078-4085
- Xiong, F., Wang, X., Pan, S., Yang, H., Wang, H., and Zhang, C., Social Recommendation With Evolutionary Opinion Dynamics; *TSMC Oct. 2020 3804-3816*
- Xiong, J., see Ren, H., TSMC May 2020 1932-1942
- Xiong, J., see Chang, X., TSMC Nov. 2020 4697-4707
- Xiong, N., see Qin, Y., TSMC Oct. 2020 3863-3870
- Xiong, N.N., see Xia, Z., TSMC April 2020 1526-1536
- Xiong, W., Xu, L., Huang, T., Yu, X., and Liu, Y., Finite-Iteration Tracking of Singular Coupled Systems Based on Learning Control With Packet Losses; *TSMC Jan. 2020 245-255*
- Xu, B., see Hu, X., TSMC June 2020 2017-2028
- Xu, C., see Zhou, S., TSMC Dec. 2020 5201-5210
- Xu, C., see Li, Z., TSMC Dec. 2020 5296-5305
- Xu, C., see Feng, J., TSMC Jan. 2020 81-88
- Xu, D., see Xu, X., TSMC Feb. 2020 656-672
- Xu, D., see Qin, F., TSMC March 2020 1024-1034
- Xu, D., see Tao, X., TSMC April 2020 1486-1498
- **Xu, F.,** see Li, Z., *TSMC Dec.* 2020 5244-5254
- Xu, J., see Han, W., TSMC Feb. 2020 707-716

- Xu, J., see Song, J., TSMC April 2020 1514-1525
- Xu, J., see Xu, X., TSMC Nov. 2020 4212-4223
- Xu, K., see Leng, J., TSMC Jan. 2020 182-192
- Xu, L., see Vargas, A.N., TSMC Nov. 2020 4318-4325
- Xu, L., see Xiong, W., TSMC Jan. 2020 245-255
- Xu, M., see Han, M., TSMC May 2020 1820-1832
- Xu, S., see Min, H., TSMC Feb. 2020 480-489
- **Xu, S.,** see Li, F., *TSMC Aug. 2020 2860-2869*
- Xu, S., see Rong, L., TSMC Dec. 2020 5361-5368
- Xu, T., see Chang, B., TSMC June 2020 2242-2256
- Xu, W., see Mu, Z., TSMC May 2020 1746-1756
- Xu, X., Yan, X., Sheng, C., Yuan, C., Xu, D., and Yang, J., A Belief Rule-Based Expert System for Fault Diagnosis of Marine Diesel Engines; *TSMC Feb.* 2020 656-672
- Xu, X., Zuo, L., Li, X., Qian, L., Ren, J., and Sun, Z., A Reinforcement Learning Approach to Autonomous Decision Making of Intelligent Vehicles on Highways; *TSMC Oct. 2020 3884-3897*
- Xu, X., Li, J., Zhou, M., Xu, J., and Cao, J., Accelerated Two-Stage Particle Swarm Optimization for Clustering Not-Well-Separated Data; *TSMC Nov.* 2020 4212-4223
- Xu, X., Liu, Q., Zhang, C., and Zeng, Z., Prescribed Performance Controller Design for DC Converter System With Constant Power Loads in DC Microgrid; *TSMC Nov. 2020 4339-4348*
- Xu, X., see Wen, X., TSMC Dec. 2020 4933-4947
- Xu, X., see Yan, S., TSMC Dec. 2020 5058-5073
- Xu, Y., Fang, M., Wu, Z., Pan, Y., Chadli, M., and Huang, T., Input-Based Event-Triggering Consensus of Multiagent Systems Under Denial-of-Service Attacks; *TSMC April 2020 1455-1464*
- Xu, Y., see Ren, H., TSMC May 2020 1932-1942
- Xu, Y., see Li, J., TSMC Nov. 2020 4396-4407
- Xu, Y., Liu, C., Li, J., Su, C., and Huang, T., Finite-Horizon H<sub>∞</sub> State Estimation for Time-Varying Neural Networks with Periodic Inner Coupling and Measurements Scheduling; *TSMC Jan. 2020 211-219*
- Xue, R., Baron, C., Esteban, P., Yang, J., and Zheng, L., Toward an Improved Monitoring of Engineering Projects; *TSMC Oct. 2020 3541-3553*
- Xue, S., Luo, B., and Liu, D., Event-Triggered Adaptive Dynamic Programming for Zero-Sum Game of Partially Unknown Continuous-Time Nonlinear Systems; *TSMC Sept. 2020 3189-3199*
- Xun, Y., see Zhang, J., TSMC March 2020 988-1002

## Y

- Yan, D., see Leng, J., TSMC Jan. 2020 182-192
- Yan, H., Sun, J., Zhang, H., Zhan, X., and Yang, F., Event-Triggered H<sub>∞</sub> State Estimation of 2-DOF Quarter-Car Suspension Systems With Nonhomogeneous Markov Switching; *TSMC Sept. 2020 3320-3329*
- Yan, H., see Liu, A., TSMC Nov. 2020 4587-4597
- Yan, H., see Shen, H., TSMC Nov. 2020 4796-4806
- Yan, H., see Wang, Q., TSMC Nov. 2020 4506-4512
- Yan, H., Wang, J., Zhang, H., Shen, H., and Zhan, X., Event-Based Security Control for Stochastic Networked Systems Subject to Attacks; *TSMC Nov.* 2020 4643-4654
- Yan, H., Li, P., Zhang, H., Zhan, X., and Yang, F., Event-Triggered Distributed Fusion Estimation of Networked Multisensor Systems With Limited Information; *TSMC Dec. 2020 5330-5337*
- Yan, J., Li, X., Sun, S.X., Shi, Y., and Wang, H., A BDI Modeling Approach for Decision Support in Supply Chain Quality Inspection; *TSMC March 2020* 884-898
- Yan, J., Yang, G., and Li, X., Adaptive Fault-Tolerant Compensation Control for T–S Fuzzy Systems With Mismatched Parameter Uncertainties; *TSMC* Sept. 2020 3412-3423
- Yan, S., Xu, X., and Bian, Y., Pricing and Return Strategy: Whether to Adopt a Cross-Channel Return Option?; *TSMC Dec. 2020 5058-5073*
- Yan, W., see Yang, Z., TSMC July 2020 2524-2533
- Yan, W., see Guo, X., TSMC Nov. 2020 4068-4077
- Yan, X., see Xu, X., TSMC Feb. 2020 656-672
- Yan, X., see Liao, Z., TSMC April 2020 1590-1601

- Yang, B., see Li, X., TSMC May 2020 1690-1695
- Yang, C., see Xie, S., TSMC July 2020 2408-2420
- Yang, D., and Zhao, J., Dissipativity for Switched LPV Systems and Its Application: A Parameter and Dwell Time-Dependent Multiple Storage Functions Method; *TSMC Feb. 2020 502-513*
- Yang, D., Li, T., Xie, X., and Zhang, H., Event-Triggered Integral Sliding-Mode Control for Nonlinear Constrained-Input Systems With Disturbances via Adaptive Dynamic Programming; *TSMC Nov. 2020 4086-4096*
- Yang, F., Wu, N., Qiao, Y., Zhou, M., Su, R., and Qu, T., Modeling and Optimal Cyclic Scheduling of Time-Constrained Single-Robot-Arm Cluster Tools via Petri Nets and Linear Programming; *TSMC March 2020 871-883*
- Yang, F., see Yan, H., TSMC Sept. 2020 3320-3329
- Yang, F., see Le, J., TSMC Oct. 2020 3871-3883
- Yang, F., Qiao, Y., Gao, K., Wu, N., Zhu, Y., Simon, I.W., and Su, R., Efficient Approach to Scheduling of Transient Processes for Time-Constrained Single-Arm Cluster Tools With Parallel Chambers; *TSMC Oct. 2020 3646-3657*
- Yang, F., see Yan, H., TSMC Dec. 2020 5330-5337 Yang, G., see Liu, Y., TSMC Feb. 2020 609-616
- Yang, G., see Zhang, Z., *TSMC June 2020 2220-2230*
- Yang, G., see Shen, C., *TSMC July 2020 2501-2511*
- Yang, G., see Wang, X., TSMC Sury 2020 2001 2011 Yang, G., see Wang, X., TSMC Sept. 2020 3269-3280
- Yang, G., see Wang, H., TSMC Sept. 2020 3207 5200 Yang, G., see Wang, H., TSMC Sept. 2020 3333-3343
- Yang, G., see Jing, Y., TSMC Sept. 2020 3424-3434
- Yang, G., see Yan, J., TSMC Sept. 2020 3412-3423
- Yang, H., see He, K., TSMC April 2020 1372-1383
- Yang, H., see Zhao, L., TSMC July 2020 2650-2658
- Yang, H., see Xiong, F., TSMC Oct. 2020 3804-3816
- Yang, H., see Yuan, H., TSMC Jan. 2020 111-122
- Yang, J., see Zhang, C., TSMC Feb. 2020 577-589
- Yang, J., see Xu, X., TSMC Feb. 2020 656-672
- Yang, J., see Xue, R., TSMC Oct. 2020 3541-3553
- Yang, J., see Zhao, Y., TSMC Dec. 2020 5221-5232
- Yang, J., see Su, Z., TSMC Dec. 2020 5432-5443
- Yang, K., see Li, J., TSMC Dec. 2020 5172-5179
- Yang, L., see Liu, R., TSMC July 2020 2475-2490
- Yang, L.T., see Yuan, Y., TSMC Jan. 2020 2-8
- Yang, P., see Lai, Z., TSMC Nov. 2020 4349-4361
- Yang, S., see Li, K., TSMC Nov. 2020 4676-4687
- Yang, W., see Tang, Y., TSMC Sept. 2020 3300-3310
- Yang, X., Liu, Z.-Y., and Qiaoxu, H., Incorporating Discrete Constraints Into Random Walk-Based Graph Matching; *TSMC April 2020 1406-1416*
- Yang, X., and He, H., Adaptive Dynamic Programming for Decentralized Stabilization of Uncertain Nonlinear Large-Scale Systems With Mismatched Interconnections; *TSMC Aug. 2020 2870-2882*
- Yang, X., Zhang, W., and Yu, L., A Bank of Decentralized Extended Information Filters for Target Tracking in Event-Triggered WSNs; *TSMC Sept. 2020* 3281-3289
- Yang, X., and He, H., Event-Triggered Robust Stabilization of Nonlinear Input-Constrained Systems Using Single Network Adaptive Critic Designs; *TSMC Sept. 2020 3145-3157*
- Yang, X., see Jiang, L., TSMC Oct. 2020 3828-3840
- Yang, X., and He, H., Adaptive Critic Learning and Experience Replay for Decentralized Event-Triggered Control of Nonlinear Interconnected Systems; *TSMC Nov. 2020 4043-4055*
- Yang, X., Wang, G., He, H., Lu, J., and Zhang, Y., Automated Demand Response Framework in ELNs: Decentralized Scheduling and Smart Contract; *TSMC Jan. 2020 58-72*

Yang, Y., see Zhao, Z., TSMC Feb. 2020 514-524

- Yang, Y., Tan, J., and Yue, D., Prescribed Performance Tracking Control of a Class of Uncertain Pure-Feedback Nonlinear Systems With Input Saturation; *TSMC May 2020 1733-1745*
- Yang, Y., see Liu, D., TSMC July 2020 2398-2407
- Yang, Y., and Hu, H., A Distributed Control Approach to Automated Manufacturing Systems With Complex Routes and Operations Using Petri Nets; *TSMC Oct. 2020 3670-3684*

Yang, Y., see Yu, Z., TSMC Nov. 2020 4545-4556

Yang, Y., see Luo, B., TSMC Nov. 2020 3948-3958

- Yang, Y., see Bu, X., TSMC Dec. 2020 5119-5129
- Yang, Z., Luo, B., Liu, D., and Li, Y., Adaptive Synchronization of Delayed Memristive Neural Networks With Unknown Parameters; *TSMC Feb. 2020* 539-549
- Yang, Z., Zhang, Y., Xiang, Y., Yan, W., and Xie, S., Non-Negative Matrix Factorization With Dual Constraints for Image Clustering; *TSMC July 2020* 2524-2533
- Yang, Z., Wu, G., Song, L., and Zhang, L., Control Change Cause Analysis-Based Bayesian Network Modeling for System Risk Assessment; *TSMC* Aug. 2020 2958-2968
- Yao, X., see Zhang, G., TSMC March 2020 785-801
- Yao, X., Wu, L., and Guo, L., Disturbance-Observer-Based Fault Tolerant Control of High-Speed Trains: A Markovian Jump System Model Approach; *TSMC April 2020 1476-1485*
- Yasuda, K., see Tamura, K., TSMC Jan. 2020 360-375
- Ye, J., see Cheng, H., TSMC May 2020 1850-1864
- Yen, K.K., see Abbaspour, A., TSMC Sept. 2020 3401-3411
- Yeng, L.C., see Huang, C., TSMC April 2020 1395-1405
- Yi, B., see Chu, H., TSMC March 2020 734-746
- Yi, J., see Sun, J., TSMC Nov. 2020 4377-4386
- Yin, G., see Li, Y., TSMC Nov. 2020 4326-4338
- Yin, J., see Liu, R., TSMC July 2020 2475-2490
- Yin, S., see Kaynak, O., TSMC Sept. 2020 3330-3332
- Yin, Y., see Xiao, P., TSMC March 2020 911-922
- Yu, G., see Jiang, L., TSMC Oct. 2020 3828-3840
- Yu, H., see Fan, G., TSMC April 2020 1260-1274
- Yu, H., see Gan, J., TSMC July 2020 2741-2751
- Yu, H., see Liu, H., TSMC Nov. 2020 4623-4632
- Yu, J., see Ge, Q., TSMC March 2020 899-910
- Yu, J., Dong, X., Li, Q., and Ren, Z., Robust H<sub>∞</sub> Guaranteed Cost Time-Varying Formation Tracking for High-Order Multiagent Systems With Time-Varying Delays; *TSMC April 2020 1465-1475*
- Yu, J., Han, S., and Li, X., A Robust Game-Based Algorithm for Downlink Joint Resource Allocation in Hierarchical OFDMA Femtocell Network System; *TSMC July 2020 2445-2455*
- Yu, J., see Chen, X., TSMC July 2020 2327-2337
- Yu, J., see Cao, Z., TSMC Jan. 2020 376-384
- Yu, L., see Yang, X., TSMC Sept. 2020 3281-3289
- Yu, L., see Liu, A., TSMC Nov. 2020 4587-4597
- Yu, M., see Kaongoen, N., TSMC March 2020 1178-1185
- Yu, Q., see Wang, X., TSMC May 2020 1897-1908
- Yu, Q., see Bu, X., TSMC Dec. 2020 5119-5129
- Yu, R., see Liu, Y., TSMC Nov. 2020 4078-4085
- Yu, W., see Wen, G., TSMC June 2020 2293-2304
- Yu, W., see de la Rosa, E., TSMC July 2020 2316-2326
- Yu, W., see Wang, M., TSMC Oct. 2020 3598-3612
- Yu, W., see Liu, D., TSMC Nov. 2020 4160-4170
- Yu, X., see Zhang, J., TSMC March 2020 988-1002
- Yu, X., see Wen, G., TSMC June 2020 2293-2304
- Yu, X., see Li, J., TSMC June 2020 2007-2016
- Yu, X., see Li, P., TSMC Nov. 2020 4817-4827
- Yu, X., see Ji, L., TSMC Nov. 2020 4655-4663
- Yu, X., see Vargas, A.N., TSMC Nov. 2020 4318-4325
- Yu, X., see Lai, J., TSMC Jan. 2020 100-110
- Yu, X., see Xiong, W., TSMC Jan. 2020 245-255
- Yu, Y., see Deng, Y., TSMC Aug. 2020 2905-2913
- Yu, Y., see Cao, Z., TSMC Jan. 2020 376-384
- Yu, Z., Yang, Y., Li, S., and Sun, J., Observer-Based Adaptive Finite-Time Quantized Tracking Control of Nonstrict-Feedback Nonlinear Systems With Asymmetric Actuator Saturation; *TSMC Nov. 2020 4545-4556*
- Yu, Z., see Zhang, Z., TSMC Dec. 2020 5106-5118
- Yuan, B., see Duan, L., TSMC Dec. 2020 5255-5270
- Yuan, C., see Xu, X., TSMC Feb. 2020 656-672
- Yuan, C., see Xia, Z., TSMC April 2020 1526-1536
- Yuan, H., see Mu, Z., TSMC May 2020 1746-1756

- Yuan, H., Xia, Y., Lin, M., Yang, H., and Gao, R., Dynamic Pricing-Based Resilient Strategy Design for Cloud Control System Under Jamming Attack; *TSMC Jan. 2020 111-122*
- Yuan, Y., Wang, Z., Guo, L., and Liu, H., Barrier Lyapunov Functions-Based Adaptive Fault Tolerant Control for Flexible Hypersonic Flight Vehicles With Full State Constraints; *TSMC Sept. 2020 3391-3400*
- Yuan, Y., Wang, F., Rong, C., Stavrou, A., Zhang, J., Tang, Q., Baldimtsi, F., Yang, L.T., Wu, D., Wang, S., Olson, D.L., and Lambert, J.H., Guest Editorial Special Issue on Blockchain and Economic Knowledge Automation; *TSMC Jan. 2020 2-8*
- Yue, C., see Deng, S., TSMC Jan. 2020 123-136
- Yue, D., see Yang, Y., TSMC May 2020 1733-1745
- Yue, D., see Chu, H., TSMC July 2020 2456-2465
- Yue, D., see Chu, H., TSMC Oct. 2020 3784-3794
- Yue, D., see Xie, X., TSMC Nov. 2020 4387-4393
- Yue, H., Xing, K., Hu, H., Wu, W., and Su, H., Supervisory Control of Deadlock-Prone Production Systems With Routing Flexibility and Unreliable Resources; *TSMC Oct. 2020 3528-3540*
- Yue, M., Hou, X., Zhao, X., and Wu, X., Robust Tube-Based Model Predictive Control for Lane Change Maneuver of Tractor-Trailer Vehicles Based on a Polynomial Trajectory; *TSMC Dec.* 2020 5180-5188

Yue, X., see Wang, J., TSMC May 2020 1777-1793

Yue, X., see Zhang, J., TSMC Nov. 2020 4472-4481

## Z

- Zabinsky, Z.B., see Placek, P.C., TSMC April 2020 1362-1371
- Zabinsky, Z.B., see Kohn, W., TSMC June 2020 2083-2092
- Zeng, D., see Kong, Q., TSMC Oct. 2020 3817-3827
- Zeng, F., see Li, G., TSMC March 2020 802-814
- Zeng, P., see Qi, Y., TSMC April 2020 1442-1454
- Zeng, Q., see Duan, H., TSMC Aug. 2020 2845-2859
- Zeng, Q., Liu, C., Duan, H., and Zhou, M., Resource Conflict Checking and Resolution Controller Design for Cross-Organization Emergency Response Processes; *TSMC Oct. 2020 3685-3700*

Zeng, Q., see Liu, Y., TSMC Dec. 2020 5351-5360

- Zeng, Z., see Sheng, Y., TSMC May 2020 1721-1732
- Zeng, Z., see Zhang, F., TSMC June 2020 2029-2041
- Zeng, Z., see Xu, X., TSMC Nov. 2020 4339-4348
- Zhai, D., Xi, C., Dong, J., and Zhang, Q., Adaptive Fuzzy Fault-Tolerant Tracking Control of Uncertain Nonlinear Time-Varying Delay Systems; *TSMC May 2020 1840-1849*
- Zhan, X., see Yan, H., TSMC Sept. 2020 3320-3329
- Zhan, X., see Yan, H., TSMC Nov. 2020 4643-4654
- Zhan, X., see Yan, H., TSMC Dec. 2020 5330-5337
- Zhang, B., see Min, H., TSMC Feb. 2020 480-489
- Zhang, B., see Chen, Z., TSMC March 2020 962-971
- Zhang, B., see Song, S., TSMC April 2020 1559-1569
- Zhang, B., see Zhao, L., TSMC July 2020 2650-2658
- Zhang, B., see Li, F., TSMC Aug. 2020 2860-2869
- Zhang, B., see Li, J., TSMC Nov. 2020 4396-4407
- Zhang, B., Pan, Q., Gao, L., Meng, L., Li, X., and Peng, K., A Three-Stage Multiobjective Approach Based on Decomposition for an Energy-Efficient Hybrid Flow Shop Scheduling Problem; *TSMC Dec. 2020 4984-4999*
- Zhang, C., Yang, J., Wen, C., Wang, L., and Li, S., Realization of Exact Tracking Control for Nonlinear Systems via a Nonrecursive Dynamic Design; *TSMC Feb. 2020 577-589*
- Zhang, C., Wen, C., and Wang, L., Nonsmooth Decentralized Stabilization for Interconnected Systems Subject to Strongly Coupled Uncertain Interactions; *TSMC July 2020 2685-2692*
- Zhang, C., see Wang, H., TSMC Aug. 2020 2883-2896
- Zhang, C., see Xiong, F., TSMC Oct. 2020 3804-3816
- Zhang, C., see Ren, Y., TSMC Oct. 2020 3770-3783
- Zhang, C., see Xu, X., TSMC Nov. 2020 4339-4348
- Zhang, D., see Qin, F., TSMC March 2020 1024-1034
- Zhang, D., see Tao, X., TSMC April 2020 1486-1498

- Zhang, D., Lee, T., Sun, X., and Wu, Y., Practical Regulation of Nonholonomic Systems Using Virtual Trajectories and LaSalle Invariance Principle; *TSMC* May 2020 1833-1839
- Zhang, D., see Zhao, S., TSMC Aug. 2020 2897-2904
- Zhang, D., see Tang, Y., TSMC Sept. 2020 3300-3310
- Zhang, D., see Le, J., TSMC Oct. 2020 3871-3883
- Zhang, D., see Zhou, D., TSMC Nov. 2020 4787-4795
- Zhang, D., Le, J., Mu, N., and Liao, X., An Anonymous Off-Blockchain Micropayments Scheme for Cryptocurrencies in the Real World; *TSMC Jan. 2020* 32-42
- Zhang, D., see Leng, J., TSMC Jan. 2020 182-192
- Zhang, F., and Zeng, Z., Multiple Lagrange Stability Under Perturbation for Recurrent Neural Networks With Time-Varying Delays; *TSMC June 2020* 2029-2041
- Zhang, G., Su, Z., Li, M., Qi, M., Jiang, J., and Yao, X., A Task-Oriented Heuristic for Repairing Infeasible Solutions to Overlapping Coalition Structure Generation; *TSMC March 2020 785-801*
- Zhang, G., see Chu, H., TSMC March 2020 734-746
- Zhang, G., see Sun, S., TSMC June 2020 2284-2292
- Zhang, H., Liu, Y., Xiao, G., and Jiang, H., Data-Based Adaptive Dynamic Programming for a Class of Discrete-Time Systems With Multiple Delays; *TSMC Feb. 2020 432-441*
- Zhang, H., see Tao, X., TSMC April 2020 1486-1498
- Zhang, H., see Wang, Z., TSMC April 2020 1275-1285
- Zhang, H., see Jiang, K., TSMC April 2020 1570-1579
- Zhang, H., see Sheng, Y., TSMC May 2020 1721-1732
- Zhang, H., see Wang, Z., TSMC July 2020 2566-2577
- Zhang, H., Zhang, K., Xiao, G., and Jiang, H., Robust Optimal Control Scheme for Unknown Constrained-Input Nonlinear Systems via a Plug-n-Play Event-Sampled Critic-Only Algorithm; *TSMC Sept. 2020 3169-3180*
- Zhang, H., see Yan, H., TSMC Sept. 2020 3320-3329
- Zhang, H., see Yan, H., TSMC Nov. 2020 4643-4654
- Zhang, H., see Yang, D., TSMC Nov. 2020 4086-4096
- Zhang, H., Xiao, G., Liu, Y., and Liu, L., Value Iteration-Based H<sub>∞</sub> Controller Design for Continuous-Time Nonlinear Systems Subject to Input Constraints; *TSMC Nov. 2020 3986-3995*
- Zhang, H., see Su, H., TSMC Nov. 2020 3996-4008
- Zhang, H., see Liu, Y., TSMC Nov. 2020 4078-4085
- Zhang, H., Liang, Y., Su, H., and Liu, C., Event-Driven Guaranteed Cost Control Design for Nonlinear Systems With Actuator Faults via Reinforcement Learning Algorithm; *TSMC Nov. 2020 4135-4150*
- Zhang, H., see Yan, H., TSMC Dec. 2020 5330-5337
- Zhang, H., see Fu, D., TSMC Dec. 2020 4894-4904
- Zhang, J., Yu, X., Xun, Y., Zhang, S., and Qin, X., Scalable Mining of Contextual Outliers Using Relevant Subspace; *TSMC March 2020 988-1002*
- Zhang, J., see Zhou, Y., TSMC Aug. 2020 3086-3099
- Zhang, J., and Peng, C., Guaranteed Cost Control of Uncertain Networked Control Systems With a Hybrid Communication Scheme; *TSMC Sept. 2020* 3126-3135
- Zhang, J., Cao, Q., and Yue, X., Target or Not? Endogenous Advertising Strategy Under Competition; TSMC Nov. 2020 4472-4481
- Zhang, J., Zhu, Y., and Chen, Z., Evolutionary Game Dynamics of Multiagent Systems on Multiple Community Networks; *TSMC Nov. 2020 4513-4529*
- Zhang, J., see Li, J., TSMC Nov. 2020 4295-4308
- Zhang, J., see Choi, T., TSMC Dec. 2020 5049-5057
- Zhang, J., see Yuan, Y., TSMC Jan. 2020 2-8
- Zhang, K., see Liu, C., TSMC Aug. 2020 2804-2814
- Zhang, K., see Zhang, H., TSMC Sept. 2020 3169-3180
- Zhang, L., see Sidoti, D., TSMC March 2020 1055-1073
- Zhang, L., see Li, F., TSMC July 2020 2386-2397
- Zhang, L., see Yang, Z., TSMC Aug. 2020 2958-2968
- Zhang, L., see Wang, M., TSMC Nov. 2020 4598-4610
- Zhang, M., see Deng, Y., TSMC Aug. 2020 2905-2913
- Zhang, N., see Li, Y., TSMC Nov. 2020 4326-4338
- Zhang, P., see Wang, Y., TSMC March 2020 1046-1054
- Zhang, P., see Cui, L., TSMC May 2020 1663-1678
- Zhang, P., see Lai, X., TSMC July 2020 2534-2540

Zhang, P., see Zhang, Z., TSMC Dec. 2020 5106-5118

5466

- Zhang, Q., see Zhai, D., TSMC May 2020 1840-1849
- Zhang, Q., see Pang, B., TSMC June 2020 1999-2006
- Zhang, Q., see Qin, Y., TSMC Oct. 2020 3863-3870
- Zhang, Q., see Sun, X., TSMC Nov. 2020 4438-4446
- Zhang, R., see Jin, Q., TSMC April 2020 1310-1317
- Zhang, R., Improved Control for Industrial Systems Over Model Uncertainty: A Receding Horizon Expanded State Space Control Approach; TSMC April 2020 1343-1349
- Zhang, R., see Jin, Q., TSMC May 2020 1877-1884
- Zhang, R., see Liu, A., TSMC Nov. 2020 4587-4597
- Zhang, S., see Zhang, J., TSMC March 2020 988-1002
- Zhang, S., see Huang, D., TSMC Jan. 2020 172-181
- Zhang, T., see Liu, Y., TSMC Aug. 2020 3047-3058
- Zhang, W., see Chu, H., TSMC March 2020 734-746
- Zhang, W., see Yang, X., TSMC Sept. 2020 3281-3289
- Zhang, W., see Su, H., TSMC Sept. 2020 3456-3469
- Zhang, W., see Liu, A., TSMC Nov. 2020 4587-4597
- Zhang, W., see Zhao, Y., TSMC Dec. 2020 5221-5232
- Zhang, X., see Ge, X., TSMC Sept. 2020 3112-3125
- Zhang, X., see Zheng, A., TSMC Jan. 2020 149-158
- Zhang, Y., see Shi, Y., TSMC Feb. 2020 565-576
- Zhang, Y., see Chen, Z., TSMC March 2020 962-971
- Zhang, Y., Wang, M., Fang, X., and Ozguner, U., Unifying Analytical Methods With Numerical Methods for Traffic System Modeling and Control; *TSMC* June 2020 2068-2082
- Zhang, Y., see Yang, Z., TSMC July 2020 2524-2533
- Zhang, Y., see Chen, K., TSMC July 2020 2351-2361
- Zhang, Y., Chung, F., and Wang, S., Fast Exemplar-Based Clustering by Gravity Enrichment Between Data Objects; *TSMC Aug. 2020 2996-3009*
- Zhang, Y., see Deng, Y., TSMC Aug. 2020 2905-2913
- Zhang, Y., see Li, P., TSMC Nov. 2020 4817-4827
- Zhang, Y., see Li, J., TSMC Nov. 2020 4633-4642
- Zhang, Y., see Mu, C., TSMC Nov. 2020 4056-4067
- Zhang, Y., see Hou, J., TSMC Nov. 2020 4097-4108
- Zhang, Y., see Yang, X., TSMC Jan. 2020 58-72
- Zhang, Z., see Chen, Z., TSMC March 2020 962-971
- Zhang, Z., see Song, S., TSMC April 2020 1559-1569
- Zhang, Z., and Yang, G., Distributed Fault Detection and Isolation for Multiagent Systems: An Interval Observer Approach; *TSMC June 2020 2220-2230*
- Zhang, Z., see Mao, Y., TSMC Aug. 2020 2768-2778
- Zhang, Z., see Zhou, Y., TSMC Aug. 2020 3086-3099
- Zhang, Z., Guo, R., Liu, X., and Lin, C., Lagrange Exponential Stability of Complex-Valued BAM Neural Networks With Time-Varying Delays; *TSMC* Aug. 2020 3072-3085
- Zhang, Z., see Wang, J., TSMC Nov. 2020 4732-4745
- Zhang, Z., Kong, L., Zheng, L., Zhang, P., Qu, X., Liao, B., and Yu, Z., Robustness Analysis of a Power-Type Varying-Parameter Recurrent Neural Network for Solving Time-Varying QM and QP Problems and Applications; *TSMC Dec. 2020 5106-5118*
- Zhao, C., Duan, X., and Shi, Y., Analysis of Consensus-Based Economic Dispatch Algorithm Under Time Delays; *TSMC Aug. 2020 2978-2988*
- Zhao, D., Wang, Z., Ding, D., and Wei, G., H<sub>∞</sub> PID Control With Fading Measurements: The Output-Feedback Case; *TSMC June 2020 2170-2180*
- Zhao, D., see Zhu, Y., TSMC Nov. 2020 3959-3971
- Zhao, D., see Li, J., TSMC Dec. 2020 5172-5179
- Zhao, D., see Cheng, Y., TSMC Dec. 2020 5000-5014
- Zhao, F., see Ren, Y., TSMC Oct. 2020 3770-3783
- Zhao, G., see Su, Z., TSMC Dec. 2020 5432-5443
- Zhao, H., see Lu, N., TSMC Jan. 2020 137-148
- Zhao, J., see Yang, D., TSMC Feb. 2020 502-513
- Zhao, J., see Zhao, Y., TSMC Oct. 2020 3925-3935
- Zhao, J., Chen, L., Pedrycz, W., and Wang, W., A Novel Semi-Supervised Sparse Bayesian Regression Based on Variational Inference for Industrial Datasets With Incomplete Outputs; *TSMC Nov. 2020 4773-4786*

Zhao, J., see Tang, L., TSMC Nov. 2020 4270-4282

Zhao, J.L., see Leng, J., TSMC Jan. 2020 182-192

+ Check author entry for coauthors

Zhao, L., see Meng, D., TSMC May 2020 1885-1896

- Zhao, L., Zhang, B., Yang, H., and Wang, Y., Observer-Based Integral Sliding Mode Tracking Control for a Pneumatic Cylinder With Varying Loads; *TSMC July 2020 2650-2658*
- Zhao, P., see Wang, M., TSMC Oct. 2020 3598-3612
- Zhao, R., see Li, Z., TSMC Dec. 2020 5317-5329
- Zhao, S., Wang, X., Lin, Z., Zhang, D., and Shen, L., Integrating Vector Field Approach and Input-to-State Stability Curved Path Following for Unmanned Aerial Vehicles; *TSMC Aug. 2020 2897-2904*
- Zhao, S., see Liu, Y., TSMC Aug. 2020 3047-3058
- Zhao, X., see Liu, L., TSMC June 2020 2305-2314
- Zhao, X., see Li, P., TSMC Nov. 2020 4482-4491
- Zhao, X., see Yue, M., TSMC Dec. 2020 5180-5188
- Zhao, Y., see Wu, P., TSMC June 2020 2187-2197
- Zhao, Y., see Hu, X., TSMC June 2020 2017-2028
- **Zhao, Y.,** and Zhao, J.,  $H_{\infty}$  Reliable Bumpless Transfer Control for Switched Systems With State and Rate Constraints; *TSMC Oct. 2020 3925-3935*
- Zhao, Y., Zhang, W., Su, H., and Yang, J., Observer-Based Synchronization of Chaotic Systems Satisfying Incremental Quadratic Constraints and Its Application in Secure Communication; *TSMC Dec.* 2020 5221-5232
- Zhao, Z., Yang, Y., Ding, S.X., and Li, L., Fault-Tolerant Control for Systems With Model Uncertainty and Multiplicative Faults; *TSMC Feb. 2020 514-524*
- Zhen, L., A Bi-Objective Model on Multiperiod Green Supply Chain Network Design; TSMC March 2020 771-784
- Zheng, A., Zhang, X., Jiang, B., Luo, B., and Li, C., A Subspace Learning Approach to Multishot Person Reidentification; TSMC Jan. 2020 149-158
- Zheng, L., see Xue, R., TSMC Oct. 2020 3541-3553
- Zheng, L., see Zhang, Z., TSMC Dec. 2020 5106-5118
- Zheng, W., Huang, H., Song, D., and Li, B., Optimal CSR and Pricing Decisions With Risk-Averse Providers in a Competitive Shipping System; *TSMC Dec.* 2020 4959-4973
- Zhi, Y., He, Y., Wu, M., and Liu, Q., Dissipativity Analysis for Singular Time-Delay Systems Via State Decomposition Method; *TSMC Oct. 2020* 3936-3942
- Zhong, J., Feng, L., Cai, W., and Ong, Y., Multifactorial Genetic Programming for Symbolic Regression Problems; *TSMC Nov. 2020* 4492-4505
- Zhong, Q., see Wang, J., TSMC May 2020 1777-1793
- Zhong, R.Y., see Feng, J., TSMC Jan. 2020 81-88
- Zhong, S., see Chen, H., TSMC June 2020 2042-2055
- Zhong, S., see Chen, H., TSMC Dec. 2020 5211-5220
- Zhong, X., and He, H., GrHDP Solution for Optimal Consensus Control of Multiagent Discrete-Time Systems; TSMC July 2020 2362-2374
- Zhou, B., see Liu, Q., TSMC Nov. 2020 4425-4437
- Zhou, C., see Qin, Y., TSMC Oct. 2020 3863-3870
- Zhou, C., see Cao, Z., TSMC Jan. 2020 376-384
- Zhou, D., see Sun, T., TSMC Sept. 2020 3358-3368
- Zhou, D., see Jiang, L., TSMC Oct. 2020 3828-3840
- Zhou, D., Hu, B., Guan, Z., Cai, C., Zhang, D., and He, D., Sampled-Data State Estimation for Complex Networks With Partial Measurements; *TSMC Nov.* 2020 4787-4795
- Zhou, H., see Lai, J., TSMC Jan. 2020 100-110
- Zhou, J., see Wang, D., TSMC Jan. 2020 281-289
- Zhou, J., see Deng, S., TSMC Jan. 2020 123-136
- Zhou, M., see Ferdous, J., TSMC Feb. 2020 455-467
- Zhou, M., see Feng, Y., TSMC Feb. 2020 525-538
- Zhou, M., see Han, W., TSMC Feb. 2020 707-716
- Zhou, M., see Chen, L., TSMC Feb. 2020 490-501
- Zhou, M., see Yang, F., TSMC March 2020 871-883
- Zhou, M., see Qiao, F., TSMC May 2020 1679-1689
- Zhou, M., see Li, J., TSMC June 2020 2007-2016
- Zhou, M., see Duan, H., TSMC Aug. 2020 2845-2859
- Zhou, M., see Wang, M., TSMC Oct. 2020 3628-3645
- Zhou, M., see Feng, Y., TSMC Oct. 2020 3515-3527
- Zhou, M., see Zeng, Q., TSMC Oct. 2020 3685-3700

Zhou, M., see Wisniewski, R., TSMC Oct. 2020 3484-3487

Zhou, M., see Luo, J., TSMC Oct. 2020 3658-3669

- Zhou, M., see Xu, X., TSMC Nov. 2020 4212-4223
- Zhou, M., see Huang, L., TSMC Nov. 2020 4283-4294
- Zhou, M., see Fu, Y., TSMC Dec. 2020 5037-5048
- Zhou, M., see Zhu, Q., TSMC Dec. 2020 5015-5023
- Zhou, P., see Li, M., TSMC March 2020 1208-1215
- Zhou, Q., see Jiang, L., TSMC Oct. 2020 3828-3840
- Zhou, S., Xu, C., and Luo, L., Parameter Optimization of Reduced Fluid Model via Sparse Point Measurements; *TSMC Dec. 2020 5201-5210*
- Zhou, T., Zuo, Z., and Wang, Y., Self-Triggered and Event-Triggered Control for Linear Systems With Quantization; *TSMC Sept. 2020 3136-3144*
- Zhou, X., see Zhu, X., TSMC Oct. 2020 3731-3740
- Zhou, X., Bian, G., Xie, X., and Hou, Z., An Interventionalist-Behavior-Based Data Fusion Framework for Guidewire Tracking in Percutaneous Coronary Intervention; *TSMC Nov. 2020 4836-4849*
- Zhou, Y., see Liu, X., TSMC July 2020 2693-2704
- Zhou, Y., Zhu, M., Wang, J., Zhang, Z., Xiang, Y., and Zhang, J., Tri-Goal Evolution Framework for Constrained Many-Objective Optimization; *TSMC* Aug. 2020 3086-3099
- Zhou, Y., see Wang, J., TSMC Nov. 2020 4732-4745
- Zhou, Z., Wang, B., Dong, M., and Ota, K., Secure and Efficient Vehicle-to-Grid Energy Trading in Cyber Physical Systems: Integration of Blockchain and Edge Computing; *TSMC Jan. 2020 43-57*
- Zhu, F., see Chang, B., TSMC June 2020 2242-2256
- Zhu, H., Maximizing Group Performance While Minimizing Budget; TSMC Feb. 2020 633-645
- Zhu, H., Avoiding Critical Members in a Team by Redundant Assignment; TSMC July 2020 2729-2740
- Zhu, H., see Zhu, X., TSMC Oct. 2020 3731-3740
- Zhu, J., see Ma, Z., TSMC July 2020 2421-2435
- Zhu, M., see Zhou, Y., TSMC Aug. 2020 3086-3099
- Zhu, Q., see Chen, J., TSMC June 2020 2198-2207
- Zhu, Q., see Xie, W., TSMC Sept. 2020 3200-3209
- Zhu, Q., Zhou, M., Qiao, Y., Wu, N., and Hou, Y., Multiobjective Scheduling of Dual-Blade Robotic Cells in Wafer Fabrication; *TSMC Dec. 2020 5015-5023*
- Zhu, S., Liu, Y., Lou, J., Lu, J., and Alsaadi, F.E., Sampled-Data State Feedback Control for the Set Stabilization of Boolean Control Networks; *TSMC April* 2020 1580-1589
- Zhu, X., see Wang, H., TSMC Aug. 2020 2883-2896
- Zhu, X., Zhu, H., Liu, D., and Zhou, X., Criteria Making in Role Negotiation; TSMC Oct. 2020 3731-3740
- Zhu, Y., see Sun, T., TSMC Sept. 2020 3358-3368
- Zhu, Y., see Yang, F., TSMC Oct. 2020 3646-3657
- Zhu, Y., see Zhang, J., TSMC Nov. 2020 4513-4529
- Zhu, Y., Zhao, D., and He, H., Invariant Adaptive Dynamic Programming for Discrete-Time Optimal Control; TSMC Nov. 2020 3959-3971
- Zhu, Z., Kilgour, D.M., and Hipel, K.W., A New Approach to Coalition Analysis Within the Graph Model; *TSMC June 2020 2231-2241*
- Zhuang, J., Cao, J., Tang, L., Xia, Y., and Perc, M., Synchronization Analysis for Stochastic Delayed Multilayer Network With Additive Couplings; *TSMC Nov. 2020 4807-4816*
- Zhuang, W., see Li, Y., TSMC Nov. 2020 4326-4338
- Zhuang, Y., see Qiu, Z., TSMC April 2020 1331-1342
- Ziavras, S., see Contreras, W., TSMC March 2020 1003-1012
- Zimmermann, A., see Rodriguez, R.J., TSMC Aug. 2020 2834-2844
- Zong, G., see Liu, L., TSMC June 2020 2305-2314
- Zuo, L., see Xu, X., TSMC Oct. 2020 3884-3897
- Zuo, Z., see Zhou, T., TSMC Sept. 2020 3136-3144

## Subject Index

## A

- Active disturbance rejection control
- Disturbance Rejection of Nonlinear Boiler–Turbine Unit Using High-Order Sliding Mode Observer. Su, Z., +, TSMC Dec. 2020 5432-5443

#### Actuators

- *H*<sub>∞</sub> Reliable Bumpless Transfer Control for Switched Systems With State and Rate Constraints. *Zhao, Y*, +, *TSMC Oct. 2020 3925-3935*
- A Neural Adaptive Approach for Active Fault-Tolerant Control Design in UAV. *Abbaspour*, *A.*, +, *TSMC Sept. 2020 3401-3411*
- A Robust Adaptive Model Reference Impedance Control of a Robotic Manipulator With Actuator Saturation. *Arefinia, E., +, TSMC Feb. 2020* 409-420
- Adaptive Fault-Tolerant Compensation Control and Its Application to Nonlinear Suspension Systems. Pan, H., +, TSMC May 2020 1766-1776
- Adaptive Fault-Tolerant Compensation Control for T–S Fuzzy Systems With Mismatched Parameter Uncertainties. *Yan, J.*, +, *TSMC Sept. 2020 3412-3423*
- Adaptive Fault-Tolerant Control of Uncertain Switched Nonaffine Nonlinear Systems With Actuator Faults and Time Delays. *Wu, L.*, +, *TSMC Sept.* 2020 3470-3480
- Adaptive Fault-Tolerant H-Infinity Output Feedback Control for Lead–Wing Close Formation Flight. *Liu*, *C*., +, *TSMC Aug*. 2020 2804-2814
- Adaptive Fuzzy Tracking Control for a Class of Nonstrict-Feedback Stochastic Nonlinear Systems With Actuator Faults. *Su, H.*, +, *TSMC Sept.* 2020 3456-3469
- Barrier Lyapunov Functions-Based Adaptive Fault Tolerant Control for Flexible Hypersonic Flight Vehicles With Full State Constraints. *Yuan, Y.*, +, *TSMC Sept. 2020 3391-3400*
- Decentralized Adaptive NN Output-Feedback Fault Compensation Control of Nonlinear Switched Large-Scale Systems With Actuator Dead-Zones. *Ma*, *Z*., +, *TSMC Sept. 2020 3435-3447*
- Delta Operator-Based Model Predictive Control With Fault Compensation for Steer-by-Wire Systems. *Huang, C.*, +, *TSMC June 2020 2257-2272*
- Design of Resilient Reliable Dissipativity Control for Systems With Actuator Faults and Probabilistic Time-Delay Signals via Sampled-Data Approach. *Manivannan, R.*, +, *TSMC Nov. 2020 4243-4255*
- Fuzzy Adaptive Quantized Fault-Tolerant Control of Strict-Feedback Nonlinear Systems With Mismatched External Disturbances. *Jing, Y.*, +, *TSMC Sept. 2020 3424-3434*
- Minimum-Learning-Parameters-Based Adaptive Neural Fault Tolerant Control With Its Application to Continuous Stirred Tank Reactor. *Wang, Z.*, +, *TSMC April 2020 1275-1285*
- Motion Tracking Control Design for a Class of Nonholonomic Mobile Robot Systems. Fu, J., +, TSMC June 2020 2150-2156
- Observer-Based Adaptive Finite-Time Quantized Tracking Control of Nonstrict-Feedback Nonlinear Systems With Asymmetric Actuator Saturation. *Yu, Z.*, +, *TSMC Nov. 2020 4545-4556*
- Reliable Control for Two-Dimensional Systems Subject to Extended Dissipativity. Tao, J., +, TSMC July 2020 2760-2765
- Robust Adaptive Fault-Tolerant Tracking Control for Uncertain Linear Systems With Actuator Failures Based on the Closed-Loop Reference Model. *Xiao, S.*, +, *TSMC Sept. 2020 3448-3455*
- Robust Optimal Control Scheme for Unknown Constrained-Input Nonlinear Systems via a Plug-n-Play Event-Sampled Critic-Only Algorithm. *Zhang, H.*, +, *TSMC Sept. 2020 3169-3180*
- Simultaneous Input and State Estimation for Integrated Motor-Transmission Systems in a Controller Area Network Environment via an Adaptive Unscented Kalman Filter. *Jiang, K.*, +, *TSMC April 2020 1570-1579*
- Stability Analysis and Control for Switched System With Bounded Actuators. Wang, Q., +, TSMC Nov. 2020 4506-4512
- Adaptive control
  - A Robust Adaptive Model Reference Impedance Control of a Robotic Manipulator With Actuator Saturation. *Arefinia, E., +, TSMC Feb. 2020* 409-420
  - Adaptive Backstepping Hybrid Fuzzy Sliding Mode Control for Uncertain Fractional-Order Nonlinear Systems Based on Finite-Time Scheme. *Song*, *S.*, +, *TSMC April 2020 1559-1569*
  - Adaptive Consensus of Multiagent Systems With Unknown High-Frequency Gain Signs Under Directed Graphs. *Wang*, Q., +, *TSMC June 2020 2181-2186*

- Adaptive Critic Learning and Experience Replay for Decentralized Event-Triggered Control of Nonlinear Interconnected Systems. *Yang, X.*, +, *TSMC Nov. 2020 4043-4055*
- Adaptive Dynamics Programming for  $H_{\infty}$  Control of Continuous-Time Unknown Nonlinear Systems via Generalized Fuzzy Hyperbolic Models. *Su, H.*, +, *TSMC Nov. 2020 3996-4008*
- Adaptive Fault-Tolerant Compensation Control and Its Application to Nonlinear Suspension Systems. Pan, H., +, TSMC May 2020 1766-1776
- Adaptive Fault-Tolerant Compensation Control for T–S Fuzzy Systems With Mismatched Parameter Uncertainties. *Yan, J.*, +, *TSMC Sept. 2020 3412-3423*
- Adaptive Fault-Tolerant Control of Uncertain Switched Nonaffine Nonlinear Systems With Actuator Faults and Time Delays. *Wu, L.*, +, *TSMC Sept.* 2020 3470-3480
- Adaptive Fault-Tolerant H-Infinity Output Feedback Control for Lead–Wing Close Formation Flight. *Liu*, *C*., +, *TSMC Aug*. 2020 2804-2814
- Adaptive Fuzzy Fault-Tolerant Tracking Control of Uncertain Nonlinear Time-Varying Delay Systems. Zhai, D., +, TSMC May 2020 1840-1849
- Adaptive Fuzzy Tracking Control for a Class of Nonstrict-Feedback Stochastic Nonlinear Systems With Actuator Faults. Su, H., +, TSMC Sept. 2020 3456-3469
- Adaptive Fuzzy Tracking Control of Nonlinear Switched Stochastic Systems With Prescribed Performance and Unknown Control Directions. *Liu*, Y, +, *TSMC Feb. 2020 590-599*
- Adaptive Neural Network Control for a Class of Nonlinear Systems With Unknown Control Direction. Wang, C., +, TSMC Nov. 2020 4708-4718
- Adaptive Partial Reinforcement Learning Neural Network-Based Tracking Control for Wheeled Mobile Robotic Systems. *Ding, L.*, +, *TSMC July* 2020 2512-2523
- Adaptive Robust Nonlinear Control Design for Course Tracking of Ships Subject to External Disturbances and Input Saturation. *Du*, *J.*, +, *TSMC Jan.* 2020 193-202
- Adaptive Stabilization of Discrete-Time Nonminimum Phase Systems. *Que*, *H.*, +, *TSMC Aug*. 2020 2828-2833
- Adaptive Synchronization of Delayed Memristive Neural Networks With Unknown Parameters. Yang, Z., +, TSMC Feb. 2020 539-549
- ADP-Based Robust Tracking Control for a Class of Nonlinear Systems With Unmatched Uncertainties. *Mu, C.*, +, *TSMC Nov. 2020 4056-4067*
- An Adaptive Neural Network Controller for Active Suspension Systems With Hydraulic Actuator. *Liu*, *Y*, +, *TSMC Dec. 2020 5351-5360*
- Balancing Value Iteration and Policy Iteration for Discrete-Time Control. Luo, B., +, TSMC Nov. 2020 3948-3958
- Barrier Lyapunov Functions-Based Adaptive Fault Tolerant Control for Flexible Hypersonic Flight Vehicles With Full State Constraints. *Yuan, Y.*, +, *TSMC Sept. 2020 3391-3400*
- Consensus Tracking Control for Distributed Nonlinear Multiagent Systems via Adaptive Neural Backstepping Approach. *Shang, Y.*, +, *TSMC July 2020 2436-2444*

Contraction Mapping-Based Robust Convergence of Iterative Learning Control With Uncertain, Locally Lipschitz Nonlinearity. *Meng, D.*, +, *TSMC Feb.* 2020 442-454

Decentralized Adaptive NN Output-Feedback Fault Compensation Control of Nonlinear Switched Large-Scale Systems With Actuator Dead-Zones. *Ma*, *Z*., +, *TSMC Sept. 2020 3435-3447* 

- Design of Robust Sliding Mode Control With Adaptive Reaching Law. *Han*, *H.*, +, *TSMC Nov. 2020 4415-4424*
- Deterministic Policy Gradient With Integral Compensator for Robust Quadrotor Control. Wang, Y., +, TSMC Oct. 2020 3713-3725
- Distributed Adaptive FBC of Uncertain Nonaffine Multiagent Systems Preceded by Unknown Input Nonlinearities With Unknown Gain Sign. Shahnazi, R., +, TSMC Aug. 2020 3036-3046
- Distributed Adaptive Output Feedback Leader-Following Consensus Control for Nonlinear Multiagent Systems. *Hua, C., +, TSMC Nov. 2020 4309-4317*
- Distributed PI Control for Consensus of Heterogeneous Multiagent Systems Over Directed Graphs. Lv, Y, +, TSMC April 2020 1602-1609

- Error-Driven Nonlinear Feedback Design for Fuzzy Adaptive Dynamic Surface Control of Nonlinear Systems With Prescribed Tracking Performance. *Dong, H.*, +, *TSMC March 2020 1013-1023*
- Event-Based Distributed Tracking Control for Second-Order Multiagent Systems With Switching Networks. *Duan, P., +, TSMC Sept. 2020 3220-3230*
- Event-Triggered Adaptive Critic Control Design for Discrete-Time Constrained Nonlinear Systems. *Ha*, *M.*, +, *TSMC Sept. 2020 3158-3168*
- Event-Triggered Adaptive Dynamic Programming for Zero-Sum Game of Partially Unknown Continuous-Time Nonlinear Systems. *Xue, S.*, +, *TSMC Sept. 2020 3189-3199*
- Event-Triggered Adaptive Output Regulation for a Class of Nonlinear Systems With Unknown Control Direction. *Lei*, Y, +, *TSMC Sept. 2020 3181-3188*
- Event-Triggered Integral Sliding-Mode Control for Nonlinear Constrained-Input Systems With Disturbances via Adaptive Dynamic Programming. *Yang, D.*, +, *TSMC Nov. 2020 4086-4096*
- Event-Triggered Robust Stabilization of Nonlinear Input-Constrained Systems Using Single Network Adaptive Critic Designs. *Yang, X.*, +, *TSMC Sept. 2020 3145-3157*
- Finding Multiple Roots of Nonlinear Equation Systems via a Repulsion-Based Adaptive Differential Evolution. *Gong, W.*, +, *TSMC April* 2020 1499-1513
- Finite-Time Adaptive Fuzzy Decentralized Control for Nonstrict-Feedback Nonlinear Systems With Output-Constraint. *Li, K.*, +, *TSMC Dec. 2020* 5271-5284
- Fuzzy Adaptive Output Feedback Control for MIMO Switched Nontriangular Structure Nonlinear Systems With Unknown Control Directions. *Huang, L.*, +, *TSMC Feb. 2020 550-564*
- Fuzzy Adaptive Quantized Fault-Tolerant Control of Strict-Feedback Nonlinear Systems With Mismatched External Disturbances. *Jing, Y.*, +, *TSMC Sept. 2020 3424-3434*
- Guest Editorial Special Issue on Fault Diagnosis and Adaptive Fault-Tolerant Control for Automatic Control Systems. *Kaynak, O.*, +, *TSMC Sept.* 2020 3330-3332
- Image Dynamics-Based Visual Servoing for Quadrotors Tracking a Target With a Nonlinear Trajectory Observer. *Cao, Z.*, +, *TSMC Jan. 2020 376-384*
- Improved Control for Industrial Systems Over Model Uncertainty: A Receding Horizon Expanded State Space Control Approach. *Zhang, R., TSMC April 2020 1343-1349*
- Integral Reinforcement Learning-Based Adaptive NN Control for Continuous-Time Nonlinear MIMO Systems With Unknown Control Directions. *Guo, X.*, +, *TSMC Nov. 2020 4068-4077*
- Invariant Adaptive Dynamic Programming for Discrete-Time Optimal Control. *Zhu, Y.*, +, *TSMC Nov. 2020 3959-3971*
- Leader-Following Consensus for a Class of Nonlinear Strick-Feedback Multiagent Systems With State Time-Delays. *Chen, K.*, +, *TSMC July 2020* 2351-2361
- Minimum-Learning-Parameters-Based Adaptive Neural Fault Tolerant Control With Its Application to Continuous Stirred Tank Reactor. *Wang, Z.*, +, *TSMC April 2020 1275-1285*
- Model-Free  $H_{\infty}$  Optimal Tracking Control of Constrained Nonlinear Systems via an Iterative Adaptive Learning Algorithm. *Hou, J.*, +, *TSMC Nov.* 2020 4097-4108
- Neural Network-Based Adaptive Control for Pure-Feedback Stochastic Nonlinear Systems With Time-Varying Delays and Dead-Zone Input. *Li*, *Z.*, +, *TSMC Dec. 2020 5317-5329*
- Neuro-Optimal Control for Discrete Stochastic Processes via a Novel Policy Iteration Algorithm. *Liang, M.*, +, *TSMC Nov. 2020 3972-3985*
- Observer-Based Adaptive Finite-Time Quantized Tracking Control of Nonstrict-Feedback Nonlinear Systems With Asymmetric Actuator Saturation. *Yu, Z.*, +, *TSMC Nov. 2020 4545-4556*
- Observer-Based Adaptive Sliding Mode Control for T–S Fuzzy Singular Systems. Sun, X., +, TSMC Nov. 2020 4438-4446
- Partial State Constraints-Based Control for Nonlinear Systems With Backlash-Like Hysteresis. Liu, L., +, TSMC Aug. 2020 3100-3104

- Practically Finite-Time Control for Nonlinear Systems With Mismatching Conditions and Application to a Robot System. *Min, H.*, +, *TSMC Feb.* 2020 480-489
- Prescribed Performance Tracking Control of a Class of Uncertain Pure-Feedback Nonlinear Systems With Input Saturation. *Yang, Y.*, +, *TSMC May* 2020 1733-1745
- Prescribed Performance-Based Consensus of Nonlinear Multiagent Systems With Unknown Control Directions and Switching Networks. *Liu, Y.*, +, *TSMC Feb. 2020 609-616*
- Quantized Data Driven Iterative Learning Control for a Class of Nonlinear Systems With Sensor Saturation. *Bu, X.*, +, *TSMC Dec. 2020 5119-5129*
- Reinforcement Learning Neural Network-Based Adaptive Control for State and Input Time-Delayed Wheeled Mobile Robots. *Li*, *S.*, +, *TSMC Nov.* 2020 4171-4182
- Reliable Leader-to-Follower Formation Control of Multiagent Systems Under Communication Quantization and Attacks. *Huang, X.*, +, *TSMC Jan. 2020 89-99*
- Robust Adaptive Control of an Offshore Ocean Thermal Energy Conversion System. He, X., +, TSMC Dec. 2020 5285-5295
- Robust Adaptive Fault-Tolerant Tracking Control for Uncertain Linear Systems With Actuator Failures Based on the Closed-Loop Reference Model. *Xiao, S.*, +, *TSMC Sept. 2020 3448-3455*
- Robust Adaptive Fuzzy Tracking Control for Uncertain MIMO Nonlinear Nonminimum Phase System. Hu, X., +, TSMC June 2020 2017-2028
- Robust Optimal Control Scheme for Unknown Constrained-Input Nonlinear Systems via a Plug-n-Play Event-Sampled Critic-Only Algorithm. *Zhang, H.*, +, *TSMC Sept. 2020 3169-3180*
- Switching Adaptive Controller for the Nonlinear Systems With Uncertainties From Unknown Powers. Wang, M., +, TSMC July 2020 2375-2385
- Synchronization Analysis for Stochastic Delayed Multilayer Network With Additive Couplings. *Zhuang, J.*, +, *TSMC Nov. 2020 4807-4816*
- The Design of Quasi-Optimal Higher Order Sliding Mode Control via Disturbance Observer and Switching-Gain Adaptation. *Li*, *P*., +, *TSMC Nov.* 2020 4817-4827

## Adaptive filters

- Distributed Adaptive FBC of Uncertain Nonaffine Multiagent Systems Preceded by Unknown Input Nonlinearities With Unknown Gain Sign. Shahnazi, R., +, TSMC Aug. 2020 3036-3046
- Research Progress on Intelligent System's Learning, Optimization, and Control—Part II: Online Sparse Kernel Adaptive Algorithm. *Tan, F.*, +, *TSMC Dec. 2020 5369-5385*

#### Advertising

#### Aerodynamics

- Adaptive Fault-Tolerant H-Infinity Output Feedback Control for Lead–Wing Close Formation Flight. *Liu*, *C.*, +, *TSMC Aug. 2020 2804-2814*
- Barrier Lyapunov Functions-Based Adaptive Fault Tolerant Control for Flexible Hypersonic Flight Vehicles With Full State Constraints. *Yuan, Y.*, +, *TSMC Sept. 2020 3391-3400*

#### Aerospace components

Integrating Vector Field Approach and Input-to-State Stability Curved Path Following for Unmanned Aerial Vehicles. *Zhao, S.*, +, *TSMC Aug. 2020* 2897-2904

## Aerospace control

- A Neural Adaptive Approach for Active Fault-Tolerant Control Design in UAV. *Abbaspour*; A., +, *TSMC Sept. 2020 3401-3411*
- Robust Science-Optimal Spacecraft Control for Circular Orbit Missions. Nasir, A., +, TSMC March 2020 923-934
- Sliding-Mode Control for Stabilizing High-Order Stochastic Systems: Application to One-Degree-of-Freedom Aerial Device. Vargas, A.N., +, TSMC Nov. 2020 4318-4325

# Aerospace simulation

Integrating Vector Field Approach and Input-to-State Stability Curved Path Following for Unmanned Aerial Vehicles. *Zhao, S.*, +, *TSMC Aug. 2020* 2897-2904

## Air pollution control

Value of Bargaining Contract in a Supply Chain System With Sustainability Investment: An Incentive Analysis. *Shi*, *X.*, +, *TSMC April 2020 1622-1634* Aircraft

A Neural Adaptive Approach for Active Fault-Tolerant Control Design in UAV. *Abbaspour, A., +, TSMC Sept. 2020 3401-3411* 

Aircraft control

- A Neural Adaptive Approach for Active Fault-Tolerant Control Design in UAV. *Abbaspour, A., +, TSMC Sept. 2020 3401-3411*
- Adaptive Fault-Tolerant H-Infinity Output Feedback Control for Lead–Wing Close Formation Flight. *Liu*, *C.*, +, *TSMC Aug*. 2020 2804-2814
- Barrier Lyapunov Functions-Based Adaptive Fault Tolerant Control for Flexible Hypersonic Flight Vehicles With Full State Constraints. *Yuan, Y.*, +, *TSMC Sept. 2020 3391-3400*
- Deterministic Policy Gradient With Integral Compensator for Robust Quadrotor Control. *Wang, Y.*, +, *TSMC Oct. 2020 3713-3725*
- Fixed-Time Sliding Mode Disturbance Observer-Based Nonsmooth Backstepping Control for Hypersonic Vehicles. Sun, J., +, TSMC Nov. 2020 4377-4386
- Image Dynamics-Based Visual Servoing for Quadrotors Tracking a Target With a Nonlinear Trajectory Observer. *Cao, Z.*, +, *TSMC Jan. 2020 376-384*
- Integrating Vector Field Approach and Input-to-State Stability Curved Path Following for Unmanned Aerial Vehicles. *Zhao, S.*, +, *TSMC Aug. 2020* 2897-2904
- Robust Hybrid Nonlinear Control Systems for the Dynamics of a Quadcopter Drone. Santoso, F., +, TSMC Aug. 2020 3059-3071

#### Aircraft maintenance

Robust Aircraft Maintenance Routing Problem Using a Turn-Around Time Reduction Approach. *Eltoukhy, A.E.E.*, +, *TSMC Dec. 2020 4919-4932* 

## Algebra

Finite-Iteration Tracking of Singular Coupled Systems Based on Learning Control With Packet Losses. *Xiong, W.*, +, *TSMC Jan. 2020 245-255* 

#### Analog integrated circuits

Robot Path Planning Using Analog Circuit Phase Delay. Garvey, S., +, TSMC Oct. 2020 3898-3911

#### Application program interfaces

A Reinforcement Learning Approach to Autonomous Decision Making of Intelligent Vehicles on Highways. Xu, X., +, TSMC Oct. 2020 3884-3897

Approximation theory

- Adaptive Fuzzy Fault-Tolerant Tracking Control of Uncertain Nonlinear Time-Varying Delay Systems. Zhai, D., +, TSMC May 2020 1840-1849
- Adaptive Neural Network Control for a Class of Nonlinear Systems With Unknown Control Direction. *Wang, C.*, +, *TSMC Nov. 2020 4708-4718*
- Event-Driven Guaranteed Cost Control Design for Nonlinear Systems With Actuator Faults via Reinforcement Learning Algorithm. *Zhang, H.*, +, *TSMC Nov. 2020 4135-4150*
- Expected Convergence Rate to Consensus in Asymmetric Networks: Analysis and Distributed Estimation. *Asadi, M.M.*, +, *TSMC March 2020 972-*987
- Fully Distributed Low-Complexity Control for Nonlinear Strict-Feedback Multiagent Systems With Unknown Dead-Zone Inputs. *Wang, G.*, +, *TSMC Feb. 2020 421-431*
- Maximum *a Posteriori* Estimation for Information Source Detection. *Chang*, *B.*, +, *TSMC June 2020 2242-2256*
- Necessary and Sufficient Conditions for Leader-Following Bipartite Consensus With Measurement Noise. Ma, C., +, TSMC May 2020 1976-1981
- New Discrete-Time Models of Zeroing Neural Network Solving Systems of Time-Variant Linear and Nonlinear Inequalities. *Shi*, *Y*., +, *TSMC Feb.* 2020 565-576
- Observer-Based Adaptive Finite-Time Quantized Tracking Control of Nonstrict-Feedback Nonlinear Systems With Asymmetric Actuator Saturation. *Yu, Z.*, +, *TSMC Nov. 2020 4545-4556*
- Recovering Network Structures With Time-Varying Nodal Parameters. Wang, X., +, TSMC July 2020 2588-2598
- Reinforcement Learning Neural Network-Based Adaptive Control for State and Input Time-Delayed Wheeled Mobile Robots. *Li*, *S.*, +, *TSMC Nov.* 2020 4171-4182

Target or Not? Endogenous Advertising Strategy Under Competition. Zhang, J., +, TSMC Nov. 2020 4472-4481

- Reinforcement Q-Learning Algorithm for H<sub>∞</sub> Tracking Control of Unknown Discrete-Time Linear Systems. *Peng, Y*, +, *TSMC Nov. 2020 4109-4122*
- Robust Optimal Control Scheme for Unknown Constrained-Input Nonlinear Systems via a Plug-n-Play Event-Sampled Critic-Only Algorithm. *Zhang*, H., +, TSMC Sept. 2020 3169-3180
- Structural Sparsity in Networked Control Systems. Florez, A.J., +, TSMC Dec. 2020 5152-5161
- Value Iteration-Based  $H_{\infty}$  Controller Design for Continuous-Time Nonlinear Systems Subject to Input Constraints. *Zhang, H.*, +, *TSMC Nov. 2020* 3986-3995

## Artificial immune systems

Multidomain Features-Based GA Optimized Artificial Immune System for Bearing Fault Detection. *Abid*, *A.*, +, *TSMC Jan. 2020 348-359* 

## Artificial intelligence

Guest Editorial Special Issue: Modeling Support to Various Levels of Decision-Making. Olson, D.L., +, TSMC Oct. 2020 3728-3730

## Assembling

- A Distributed Control Approach to Automated Manufacturing Systems With Complex Routes and Operations Using Petri Nets. *Yang, Y.*, +, *TSMC Oct.* 2020 3670-3684
- An MCDM-Based Multiobjective General Variable Neighborhood Search Approach for Disassembly Line Balancing Problem. *Ren, Y.*, +, *TSMC Oct.* 2020 3770-3783

Deadlock-Free Scheduling of Flexible Assembly Systems Based on Petri Nets and Local Search. *Luo, J.*, +, *TSMC Oct. 2020 3658-3669* 

# Asset management

Reweighted Price Relative Tracking System for Automatic Portfolio Optimization. Lai, Z., +, TSMC Nov. 2020 4349-4361

## Asymptotic stability

- $\mathcal{H}_{\infty}$  PID Control With Fading Measurements: The Output-Feedback Case. *Zhao*, *D.*, +, *TSMC June 2020 2170-2180*
- A Robust Adaptive Model Reference Impedance Control of a Robotic Manipulator With Actuator Saturation. *Arefinia, E.*, +, *TSMC Feb. 2020* 409-420
- Adaptive Critic Learning and Experience Replay for Decentralized Event-Triggered Control of Nonlinear Interconnected Systems. *Yang, X.*, +, *TSMC Nov. 2020 4043-4055*
- Adaptive Fault-Tolerant Compensation Control for T–S Fuzzy Systems With Mismatched Parameter Uncertainties. *Yan, J.*, +, *TSMC Sept. 2020 3412-3423*
- Adaptive Fault-Tolerant Control of Uncertain Switched Nonaffine Nonlinear Systems With Actuator Faults and Time Delays. *Wu, L.*, +, *TSMC Sept.* 2020 3470-3480
- Adaptive Fault-Tolerant H-Infinity Output Feedback Control for Lead–Wing Close Formation Flight. *Liu*, *C*., +, *TSMC Aug*. 2020 2804-2814
- An Event-Triggered Approach to Sliding Mode Control of Markovian Jump Lur'e Systems Under Hidden Mode Detections. *Song, J.*, +, *TSMC April* 2020 1514-1525
- Dissipative Fuzzy Tracking Control for Nonlinear Networked Systems With Quantization. Li, Z., +, TSMC Dec. 2020 5130-5141
- Dissipativity for Switched LPV Systems and Its Application: A Parameter and Dwell Time-Dependent Multiple Storage Functions Method. Yang, D., +, TSMC Feb. 2020 502-513
- Distributed Event-Triggered  $H_{\infty}$  Filtering for Discrete-Time T–S Fuzzy Systems Over Sensor Networks. *Wang*, X., +, *TSMC Sept. 2020 3269-3280*
- Distributed Voltage Regulation for Cyber-Physical Microgrids With Coupling Delays and Slow Switching Topologies. *Lai*, *J.*, +, *TSMC Jan. 2020 100-110*
- Disturbance Rejection of Nonlinear Boiler–Turbine Unit Using High-Order Sliding Mode Observer. Su, Z., +, TSMC Dec. 2020 5432-5443
- Dynamic Event-Triggered State Estimation for Discrete-Time Singularly Perturbed Systems With Distributed Time-Delays. *Ma*, *L.*, +, *TSMC Sept.* 2020 3258-3268
- Error State Convergence on Master–Slave Generalized Uncertain Neural Networks Using Robust Nonlinear  $H_{\infty}$  Control Theory. *Chen, H.*, +, *TSMC June 2020 2042-2055*
- Estimation for a Class of Parameter-Controlled Tunnel Diode Circuits. *Chang, X.*, +, *TSMC Nov. 2020 4697-4707*

- Estimator-Based  $H_{\infty}$  Sampled-Data Fuzzy Control for Nonlinear Parabolic PDE Systems. *Wang, Z.*, +, *TSMC July 2020 2491-2500*
- Extended Dissipative Filtering for Persistent Dwell-Time Switched Systems With Packet Dropouts. *Shen, H.,* +, *TSMC Nov. 2020 4796-4806*
- Integrating Vector Field Approach and Input-to-State Stability Curved Path Following for Unmanned Aerial Vehicles. *Zhao, S.*, +, *TSMC Aug. 2020* 2897-2904
- Lagrange Exponential Stability of Complex-Valued BAM Neural Networks With Time-Varying Delays. *Zhang, Z.*, +, *TSMC Aug. 2020 3072-3085*
- Model-Free  $H_{\infty}$  Optimal Tracking Control of Constrained Nonlinear Systems via an Iterative Adaptive Learning Algorithm. *Hou, J.*, +, *TSMC Nov.* 2020 4097-4108
- Model-Free Optimal Output Regulation for Linear Discrete-Time Lossy Networked Control Systems. *Fan, J.*, +, *TSMC Nov. 2020 4033-4042*
- Modified Repetitive Control Design for Nonlinear Systems With Time Delay Based on T–S Fuzzy Model. *Sakthivel, R., +, TSMC Feb. 2020 646-655*
- Multiple Lagrange Stability Under Perturbation for Recurrent Neural Networks With Time-Varying Delays. *Zhang, F., +, TSMC June 2020 2029-*2041
- Nonfragile  $l_2 l_{\infty}$  Fault Estimation for Markovian Jump 2-D Systems With Specified Power Bounds. *Luo*, Y., +, *TSMC May 2020 1964-1975*
- Practical Regulation of Nonholonomic Systems Using Virtual Trajectories and LaSalle Invariance Principle. *Zhang, D.*, +, *TSMC May 2020 1833-1839*
- Quantized Control for Networked Switched Systems With a More General Switching Rule. *Li*, *J.*, +, *TSMC May 2020 1909-1917*
- Reliable Control for Two-Dimensional Systems Subject to Extended Dissipativity. *Tao*, J., +, *TSMC July 2020 2760-2765*
- Robust Distributed  $H_{\infty}$  State Estimation for Stochastic Periodic Systems Over Constraint Sensor Networks. *Li*, *J.*, +, *TSMC Nov. 2020* 4396-4407
- Self-Triggered State-Feedback Control for Stochastic Nonlinear Systems With Markovian Switching. Xie, W., +, TSMC Sept. 2020 3200-3209
- Stability Analysis and Control for Switched System With Bounded Actuators. Wang, Q., +, TSMC Nov. 2020 4506-4512
- Stability Analysis for Homogeneous Hybrid Systems With Delays. He, Y, +, TSMC Oct. 2020 3554-3561
- Stability Analysis of T–S Fuzzy Control System With Sampled-Dropouts Based on Time-Varying Lyapunov Function Method. *Wang, Z.*, +, *TSMC July 2020 2566-2577*
- Stability and Robust Stability of Stochastic Reaction–Diffusion Neural Networks With Infinite Discrete and Distributed Delays. Sheng, Y., +, TSMC May 2020 1721-1732
- Stability, l<sub>2</sub>-Gain Analysis, and Parity Space-Based Fault Detection for Discrete-Time Switched Systems Under Dwell-Time Switching. Sun, T., +, TSMC Sept. 2020 3358-3368
- Stabilization of Canonical Systems via Adaptive Chattering Free Sliding Modes With No Singularity Problems. *Aghababa, M.P., TSMC May 2020* 1696-1703
- Synchronization Control for Neutral Stochastic Delay Markov Networks via Single Pinning Impulsive Strategy. *Chen, H.*, +, *TSMC Dec. 2020 5406-5419*

#### Attitude control

- Event-Triggered Sliding Mode Control for Attitude Stabilization of a Rigid Spacecraft. *Liu*, *Y*, +, *TSMC Sept. 2020 3290-3299*
- The Specified Finite-Time Distributed Observers-Based Velocity-Free Attitude Synchronization for Rigid Bodies on SO(3). *Peng, X.*, +, *TSMC April* 2020 1610-1621

## Automatic optical inspection

Detection of Power Line Insulator Defects Using Aerial Images Analyzed With Convolutional Neural Networks. *Tao, X.*, +, *TSMC April 2020 1486-1498* 

Online Rail Surface Inspection Utilizing Spatial Consistency and Continuity. Gan, J., +, TSMC July 2020 2741-2751

#### Automation

Guest Editorial Special Issue: Modeling Support to Various Levels of Decision-Making. Olson, D.L., +, TSMC Oct. 2020 3728-3730

- Event-Triggered H<sub>∞</sub> State Estimation of 2-DOF Quarter-Car Suspension Systems With Nonhomogeneous Markov Switching. *Yan, H., +, TSMC Sept. 2020 3320-3329*
- Fleet Sizing for Electric Car Sharing Systems in Discrete Event System Frameworks. *Fanti, M.P.*, +, *TSMC March 2020 1161-1177*

### Automotive engineering

Control Change Cause Analysis-Based Bayesian Network Modeling for System Risk Assessment. *Yang, Z.*, +, *TSMC Aug. 2020 2958-2968* 

## Autonomous aerial vehicles

A Distributed Control Framework of Multiple Unmanned Aerial Vehicles for Dynamic Wildfire Tracking. *Pham, H.X., +, TSMC April 2020 1537-1548* 

- A Neural Adaptive Approach for Active Fault-Tolerant Control Design in UAV. *Abbaspour, A., +, TSMC Sept. 2020 3401-3411*
- A UAV Video Dataset for Mosaicking and Change Detection From Low-Altitude Flights. *Avola, D.*, +, *TSMC June 2020 2139-2149*
- Adaptive Fault-Tolerant H-Infinity Output Feedback Control for Lead–Wing Close Formation Flight. *Liu*, C., +, *TSMC Aug. 2020 2804-2814*
- Deterministic Policy Gradient With Integral Compensator for Robust Quadrotor Control. *Wang, Y.*, +, *TSMC Oct. 2020 3713-3725*
- Image Dynamics-Based Visual Servoing for Quadrotors Tracking a Target With a Nonlinear Trajectory Observer. Cao, Z., +, TSMC Jan. 2020 376-384
- Integrating Vector Field Approach and Input-to-State Stability Curved Path Following for Unmanned Aerial Vehicles. *Zhao, S.*, +, *TSMC Aug. 2020* 2897-2904
- Robust Hybrid Nonlinear Control Systems for the Dynamics of a Quadcopter Drone. Santoso, F., +, TSMC Aug. 2020 3059-3071

## Autonomous underwater vehicles

A Review on Intelligence Dehazing and Color Restoration for Underwater Images. Han, M., +, TSMC May 2020 1820-1832

#### B

#### **Battery storage plants**

Fleet Sizing for Electric Car Sharing Systems in Discrete Event System Frameworks. Fanti, M.P., +, TSMC March 2020 1161-1177

## **Bayes methods**

- A Novel Semi-Supervised Sparse Bayesian Regression Based on Variational Inference for Industrial Datasets With Incomplete Outputs. *Zhao, J.*, +, *TSMC Nov. 2020 4773-4786*
- Adaptive Quantized Estimation Fusion Using Strong Tracking Filtering and Variational Bayesian. Ge, Q., +, TSMC March 2020 899-910
- Control Change Cause Analysis-Based Bayesian Network Modeling for System Risk Assessment. Yang, Z., +, TSMC Aug. 2020 2958-2968
- Iterative Identification of Hammerstein Parameter Varying Systems With Parameter Uncertainties Based on the Variational Bayesian Approach. *Ma*, *J.*, +, *TSMC March 2020 1035-1045*
- On Theoretical Principle and Practical Applicability of Ranked Nodes Method for Constructing Conditional Probability Tables of Bayesian Networks. *Laitila*, P., +, *TSMC May 2020 1943-1955*
- Toward Hand-Dominated Activity Recognition Systems With Wristband-Interaction Behavior Analysis. *Shen, C.,* +, *TSMC July 2020 2501-2511*

## **Belief networks**

- A Belief Rule-Based Expert System for Fault Diagnosis of Marine Diesel Engines. Xu, X., +, TSMC Feb. 2020 656-672
- A Risk-Based Dynamic Decision-Making Approach for Cybersecurity Protection in Industrial Control Systems. *Qin, Y.*, +, *TSMC Oct. 2020 3863-3870*
- Control Change Cause Analysis-Based Bayesian Network Modeling for System Risk Assessment. Yang, Z., +, TSMC Aug. 2020 2958-2968
- Fast Exemplar-Based Clustering by Gravity Enrichment Between Data Objects. *Zhang, Y., +, TSMC Aug. 2020 2996-3009*
- On Theoretical Principle and Practical Applicability of Ranked Nodes Method for Constructing Conditional Probability Tables of Bayesian Networks. *Laitila, P., +, TSMC May 2020 1943-1955*

## **Big Data**

- Data-Driven Analysis for RFID-Enabled Smart Factory: A Case Study. *Feng, J.*, +, *TSMC Jan. 2020 81-88*
- Development, Optimization, and Validation of Unintended Radiated Emissions Processing System for Threat Identification. *Friedel, J.E.*, +, *TSMC June 2020 2208-2219*
- Distributed Nonlinear Semiparametric Support Vector Machine for Big Data Applications on Spark Frameworks. *Diaz-Morales, R., +, TSMC Nov. 2020* 4664-4675
- One-Class Convex Hull-Based Algorithm for Classification in Distributed Environments. *Fernandez-Francos, D.*, +, *TSMC Feb. 2020 386-396*

Self-Adaptive Framework for Efficient Stream Data Classification on Storm. Deng, S., +, TSMC Jan. 2020 123-136

# Bin packing

The Orthogonal Packing and Scheduling Problem: Model, Heuristic, and Benchmark. *He, K.*, +, *TSMC April 2020 1372-1383* 

#### **Bioelectric potentials**

Influence of Time Pressure on Inhibitory Brain Control During Emergency Driving. King, J., +, TSMC Nov. 2020 4408-4414

# Bioinformatics

Multifactorial Genetic Programming for Symbolic Regression Problems. Zhong, J., +, TSMC Nov. 2020 4492-4505

#### **Biological tissues**

OpenMRE: A Numerical Platform for MRE Study. Li, B.N., +, TSMC March 2020 1111-1121

## Biomechanics

- Human-Inspired Control of Dual-Arm Exoskeleton Robots With Force and Impedance Adaptation. *Li*, *Z*., +, *TSMC Dec. 2020 5296-5305*
- Muscle Fatigue Induced Hand Tremor Clustering in Dynamic Laparoscopic Manipulation. *Chandra, S.*, +, *TSMC Dec. 2020 5420-5431*
- OpenMRE: A Numerical Platform for MRE Study. Li, B.N., +, TSMC March 2020 1111-1121

## **Biomedical MRI**

OpenMRE: A Numerical Platform for MRE Study. Li, B.N., +, TSMC March 2020 1111-1121

## **Biomedical optical imaging**

Surgical Wounds Assessment System for Self-Care. Chen, Y., +, TSMC Dec. 2020 5076-5091

## **Biomimetics**

Toward a Maneuverable Miniature Robotic Fish Equipped With a Novel Magnetic Actuator System. Chen, X., +, TSMC July 2020 2327-2337

## Blades

Multiobjective Scheduling of Dual-Blade Robotic Cells in Wafer Fabrication. Zhu, Q., +, TSMC Dec. 2020 5015-5023

#### **Blind source separation**

Diagnosis, Diagnosticability Analysis, and Test Point Design for Multiple Faults Based on Multisignal Modeling and Blind Source Separation. *Lu*, *N.*, +, *TSMC Jan. 2020 137-148* 

## Blockchain

Guest Editorial Special Issue on Blockchain and Economic Knowledge Automation. Yuan, Y., +, TSMC Jan. 2020 2-8

## **Blood vessels**

An Interventionalist-Behavior-Based Data Fusion Framework for Guidewire Tracking in Percutaneous Coronary Intervention. *Zhou, X.*, +, *TSMC Nov.* 2020 4836-4849

#### Boilers

Disturbance Rejection of Nonlinear Boiler–Turbine Unit Using High-Order Sliding Mode Observer. Su, Z., +, TSMC Dec. 2020 5432-5443

# Boltzmann machines

Data-Driven Fuzzy Modeling Using Restricted Boltzmann Machines and Probability Theory. *de la Rosa, E.,* +, *TSMC July 2020 2316-2326* 

# Brain models

Influence of Time Pressure on Inhibitory Brain Control During Emergency Driving. King, J., +, TSMC Nov. 2020 4408-4414

#### **Brain-computer interfaces**

- Brain–Robot Interface-Based Navigation Control of a Mobile Robot in Corridor Environments. Liu, Y., +, TSMC Aug. 2020 3047-3058
- Common Spatial Patterns Based on the Quantized Minimum Error Entropy Criterion. Chen, B., +, TSMC Nov. 2020 4557-4568

Two-Factor Authentication System Using P300 Response to a Sequence of Human Photographs. Kaongoen, N., +, TSMC March 2020 1178-1185

## Bridges (structures)

Low-Cost, Efficient Output-Only Infrastructure Damage Detection With Wireless Sensor Networks. *Contreras, W.*, +, *TSMC March 2020 1003-1012* 

## **Building management systems**

Discrete-Event-Based Deterministic Execution Semantics With Timestamps for Industrial Cyber-Physical Systems. *Dai, W.*, +, *TSMC March 2020 851-862* 

Modeling of Room Temperature Dynamics for Efficient Building Energy Management. *Rao*, *D.M.K.K.V.*, +, *TSMC Feb. 2020 717-725* 

## **Business data processing**

- A Dynamic Data Slice Approach to the Vulnerability Analysis of E-Commerce Systems. Wang, M., +, TSMC Oct. 2020 3598-3612
- Measurement and Computation of Profile Similarity of Workflow Nets Based on Behavioral Relation Matrix. *Wang, M.*, +, *TSMC Oct. 2020 3628-3645*

Scalable Hypernetwork-Based Manufacturing Services Supply Demand Matching Toward Industrial Internet Platforms. *Cheng, Y.*, +, *TSMC Dec.* 2020 5000-5014

# С

# Cameras

A Subspace Learning Approach to Multishot Person Reidentification. Zheng, A., +, TSMC Jan. 2020 149-158

## Case-based reasoning

Hybrid Intelligent Decision Support Using a Semiotic Case-Based Reasoning and Self-Organizing Maps. *Martins, D.M.L.*, +, *TSMC March 2020* 863-870

#### **Channel allocation**

A Robust Game-Based Algorithm for Downlink Joint Resource Allocation in Hierarchical OFDMA Femtocell Network System. Yu, J., +, TSMC July 2020 2445-2455

## Chaos

- Accelerated Two-Stage Particle Swarm Optimization for Clustering Not-Well-Separated Data. Xu, X., +, TSMC Nov. 2020 4212-4223
- Observer-Based Synchronization of Chaotic Systems Satisfying Incremental Quadratic Constraints and Its Application in Secure Communication. *Zhao, Y., +, TSMC Dec. 2020 5221-5232*

Synchronization Analysis for Stochastic Delayed Multilayer Network With Additive Couplings. *Zhuang, J.*, +, *TSMC Nov. 2020 4807-4816* 

## Chaotic communication

Observer-Based Synchronization of Chaotic Systems Satisfying Incremental Quadratic Constraints and Its Application in Secure Communication. *Zhao, Y., +, TSMC Dec. 2020 5221-5232* 

# Chemical engineering

Minimum-Learning-Parameters-Based Adaptive Neural Fault Tolerant Control With Its Application to Continuous Stirred Tank Reactor. Wang, Z., +, TSMC April 2020 1275-1285

## Chemical mechanical polishing

Color Filter Polishing Optimization Using ANFIS With Sliding-Level Particle Swarm Optimizer. *Tsai, J.*, +, *TSMC March 2020 1193-1207* 

#### **Chemical reactors**

- A Risk-Based Dynamic Decision-Making Approach for Cybersecurity Protection in Industrial Control Systems. *Qin, Y.*, +, *TSMC Oct. 2020 3863-3870*
- Minimum-Learning-Parameters-Based Adaptive Neural Fault Tolerant Control With Its Application to Continuous Stirred Tank Reactor. *Wang, Z.*, +, *TSMC April 2020 1275-1285*
- Optimal Setting and Control for Iron Removal Process Based on Adaptive Neural Network Soft-Sensor. *Xie, S.*, +, *TSMC July 2020 2408-2420*

# Chua's circuit

Pinning a Complex Network to Follow a Target System With Predesigned Control Inputs. *Wen, G., +, TSMC June 2020 2293-2304* 

#### **Closed loop systems**

 $\mathcal{H}_{\infty}$  PID Control With Fading Measurements: The Output-Feedback Case. *Zhao, D., +, TSMC June 2020 2170-2180* 

- A Hybrid Proportional Impulsive Plus Integral Robust Control Algorithm for H∞ Stabilization. *Chen, H.*, +, *TSMC Dec. 2020 5211-5220*
- A Robust Adaptive Model Reference Impedance Control of a Robotic Manipulator With Actuator Saturation. *Arefinia, E.*, +, *TSMC Feb. 2020* 409-420
- A Study of Product Quality and Marketing Efforts in Closed-Loop Supply Chains With Remanufacturing. *Chen, C.,* +, *TSMC Dec. 2020 4870-4881*
- Adaptive Backstepping Hybrid Fuzzy Sliding Mode Control for Uncertain Fractional-Order Nonlinear Systems Based on Finite-Time Scheme. *Song*, *S.*, +, *TSMC April 2020 1559-1569*
- Adaptive Consensus of Multiagent Systems With Unknown High-Frequency Gain Signs Under Directed Graphs. *Wang, Q.*, +, *TSMC June 2020 2181-2186*
- Adaptive Critic Learning and Experience Replay for Decentralized Event-Triggered Control of Nonlinear Interconnected Systems. *Yang, X.*, +, *TSMC Nov. 2020 4043-4055*
- Adaptive Dynamics Programming for  $H_{\infty}$  Control of Continuous-Time Unknown Nonlinear Systems via Generalized Fuzzy Hyperbolic Models. *Su, H.*, +, *TSMC Nov. 2020 3996-4008*
- Adaptive Fault-Tolerant Compensation Control and Its Application to Nonlinear Suspension Systems. Pan, H., +, TSMC May 2020 1766-1776
- Adaptive Fault-Tolerant Compensation Control for T–S Fuzzy Systems With Mismatched Parameter Uncertainties. *Yan, J., +, TSMC Sept. 2020 3412-3423*
- Adaptive Fault-Tolerant Control of Uncertain Switched Nonaffine Nonlinear Systems With Actuator Faults and Time Delays. *Wu, L.*, +, *TSMC Sept.* 2020 3470-3480
- Adaptive Fault-Tolerant H-Infinity Output Feedback Control for Lead–Wing Close Formation Flight. *Liu*, *C*., +, *TSMC Aug*. 2020 2804-2814
- Adaptive Fuzzy Fault-Tolerant Tracking Control of Uncertain Nonlinear Time-Varying Delay Systems. Zhai, D., +, TSMC May 2020 1840-1849
- Adaptive Fuzzy Tracking Control for a Class of Nonstrict-Feedback Stochastic Nonlinear Systems With Actuator Faults. Su, H., +, TSMC Sept. 2020 3456-3469
- Adaptive Fuzzy Tracking Control of Nonlinear Switched Stochastic Systems With Prescribed Performance and Unknown Control Directions. *Liu*, *Y*, +, *TSMC Feb. 2020 590-599*
- Adaptive Neural Network Control for a Class of Nonlinear Systems With Unknown Control Direction. Wang, C., +, TSMC Nov. 2020 4708-4718
- Adaptive Robust Nonlinear Control Design for Course Tracking of Ships Subject to External Disturbances and Input Saturation. *Du*, *J.*, +, *TSMC Jan. 2020 193-202*
- An Adaptive Neural Network Controller for Active Suspension Systems With Hydraulic Actuator. *Liu*, *Y*, +, *TSMC Dec. 2020 5351-5360*
- Barrier Lyapunov Functions-Based Adaptive Fault Tolerant Control for Flexible Hypersonic Flight Vehicles With Full State Constraints. *Yuan, Y.*, +, *TSMC Sept. 2020 3391-3400*
- Consensus of Upper-Triangular Multiagent Systems With Sampled and Delayed Measurements via Output Feedback. *Li, F.,* +, *TSMC Feb. 2020* 600-608
- Consensus Tracking Control for Distributed Nonlinear Multiagent Systems via Adaptive Neural Backstepping Approach. *Shang, Y.*, +, *TSMC July 2020 2436-2444*
- Control Performance-Based Fault-Tolerant Control Strategy for Singular Systems. *Liu*, *D.*, +, *TSMC July 2020 2398-2407*
- Decentralized Adaptive NN Output-Feedback Fault Compensation Control of Nonlinear Switched Large-Scale Systems With Actuator Dead-Zones. *Ma*, *Z*., +, *TSMC Sept. 2020 3435-3447*
- Design of Resilient Reliable Dissipativity Control for Systems With Actuator Faults and Probabilistic Time-Delay Signals via Sampled-Data Approach. *Manivannan, R.*, +, *TSMC Nov. 2020 4243-4255*
- Dissipative Fuzzy Tracking Control for Nonlinear Networked Systems With Quantization. Li, Z., +, TSMC Dec. 2020 5130-5141
- Distributed Adaptive FBC of Uncertain Nonaffine Multiagent Systems Preceded by Unknown Input Nonlinearities With Unknown Gain Sign. Shahnazi, R., +, TSMC Aug. 2020 3036-3046

- Distributed Consensus of Linear Multiagent Systems: Laplacian Spectra-Based Method. Chen, Y., +, TSMC Feb. 2020 700-706
- Distributed Fault Detection and Isolation for Multiagent Systems: An Interval Observer Approach. Zhang, Z., +, TSMC June 2020 2220-2230
- Distributed PI Control for Consensus of Heterogeneous Multiagent Systems Over Directed Graphs. Lv, Y., +, TSMC April 2020 1602-1609
- Disturbance Rejection of Nonlinear Boiler–Turbine Unit Using High-Order Sliding Mode Observer. Su, Z., +, TSMC Dec. 2020 5432-5443
- Dynamic Output Feedback Asynchronous Control of Networked Markovian Jump Systems. Liu, X., +, TSMC July 2020 2705-2715
- Error-Driven Nonlinear Feedback Design for Fuzzy Adaptive Dynamic Surface Control of Nonlinear Systems With Prescribed Tracking Performance. *Dong, H.*, +, *TSMC March 2020 1013-1023*
- Estimator-Based H<sub>∞</sub> Sampled-Data Fuzzy Control for Nonlinear Parabolic PDE Systems. Wang, Z., +, TSMC July 2020 2491-2500
- Event-Based Security Control for Stochastic Networked Systems Subject to Attacks. Yan, H., +, TSMC Nov. 2020 4643-4654
- Event-Triggered Adaptive Output Regulation for a Class of Nonlinear Systems With Unknown Control Direction. *Lei*, Y., +, *TSMC Sept. 2020 3181-3188*
- Event-Triggered Integral Sliding-Mode Control for Nonlinear Constrained-Input Systems With Disturbances via Adaptive Dynamic Programming. Yang, D., +, TSMC Nov. 2020 4086-4096
- Event-Triggered Robust Stabilization of Nonlinear Input-Constrained Systems Using Single Network Adaptive Critic Designs. *Yang, X.*, +, *TSMC Sept. 2020 3145-3157*
- Event-Triggered Sliding Mode Control for Attitude Stabilization of a Rigid Spacecraft. *Liu*, *Y*, +, *TSMC Sept. 2020 3290-3299*
- Finite-Time  $\mathcal{H}_{\infty}$  Controller Synthesis of T–S Fuzzy Systems. *Li*, *Y*, +, *TSMC May 2020 1956-1963*
- Finite-Time Adaptive Fuzzy Decentralized Control for Nonstrict-Feedback Nonlinear Systems With Output-Constraint. *Li*, *K.*, +, *TSMC Dec. 2020* 5271-5284
- Fixed-Time Sliding Mode Disturbance Observer-Based Nonsmooth Backstepping Control for Hypersonic Vehicles. Sun, J., +, TSMC Nov. 2020 4377-4386
- Formation Control of Multiple Mobile Robots Incorporating an Extended State Observer and Distributed Model Predictive Approach. *Liu, A.*, +, *TSMC Nov. 2020 4587-4597*
- Fuzzy Adaptive Output Feedback Control for MIMO Switched Nontriangular Structure Nonlinear Systems With Unknown Control Directions. *Huang*, L., +, TSMC Feb. 2020 550-564
- Fuzzy Adaptive Quantized Fault-Tolerant Control of Strict-Feedback Nonlinear Systems With Mismatched External Disturbances. *Jing, Y.*, +, *TSMC Sept. 2020 3424-3434*
- Guaranteed Cost Control of Uncertain Networked Control Systems With a Hybrid Communication Scheme. *Zhang, J.*, +, *TSMC Sept. 2020 3126-3135*
- Improved Control for Industrial Systems Over Model Uncertainty: A Receding Horizon Expanded State Space Control Approach. *Zhang, R., TSMC April 2020 1343-1349*
- Integral Reinforcement Learning-Based Adaptive NN Control for Continuous-Time Nonlinear MIMO Systems With Unknown Control Directions. *Guo, X.*, +, *TSMC Nov. 2020 4068-4077*
- Minimum-Learning-Parameters-Based Adaptive Neural Fault Tolerant Control With Its Application to Continuous Stirred Tank Reactor. *Wang, Z.*, +, *TSMC April 2020 1275-1285*
- Model-Free Optimal Output Regulation for Linear Discrete-Time Lossy Networked Control Systems. Fan, J., +, TSMC Nov. 2020 4033-4042
- Modified Repetitive Control Design for Nonlinear Systems With Time Delay Based on T–S Fuzzy Model. *Sakthivel, R., +, TSMC Feb. 2020 646-655*
- N-Step MPC for Systems With Persistent Bounded Disturbances Under SCP. Song, Y., +, TSMC Nov. 2020 4762-4772
- Neural Network-Based Adaptive Control for Pure-Feedback Stochastic Nonlinear Systems With Time-Varying Delays and Dead-Zone Input. *Li*, *Z.*, +, *TSMC Dec.* 2020 5317-5329

- Neural Networks-Based Active Fault-Tolerant Control for a Class of Switched Nonlinear Systems With Its Application to RCL Circuit. *Tang, L.*, +, *TSMC Nov. 2020 4270-4282*
- Nonfragile and Nonsynchronous Synthesis of Reachable Set for Bernoulli Switched Systems. Che, W., +, TSMC Feb. 2020 726-731
- Observer-Based Adaptive Finite-Time Quantized Tracking Control of Nonstrict-Feedback Nonlinear Systems With Asymmetric Actuator Saturation. *Yu, Z.*, +, *TSMC Nov. 2020 4545-4556*
- Observer-Based Integral Sliding Mode Tracking Control for a Pneumatic Cylinder With Varying Loads. *Zhao, L.*, +, *TSMC July 2020 2650-2658*
- Partial State Constraints-Based Control for Nonlinear Systems With Backlash-Like Hysteresis. *Liu*, *L*., +, *TSMC Aug. 2020 3100-3104*
- Practical Regulation of Nonholonomic Systems Using Virtual Trajectories and LaSalle Invariance Principle. *Zhang, D.*, +, *TSMC May 2020 1833-1839*
- Practically Finite-Time Control for Nonlinear Systems With Mismatching Conditions and Application to a Robot System. *Min, H.*, +, *TSMC Feb.* 2020 480-489
- Prescribed Performance Tracking Control of a Class of Uncertain Pure-Feedback Nonlinear Systems With Input Saturation. *Yang, Y.*, +, *TSMC May* 2020 1733-1745
- Quantized Control for Networked Switched Systems With a More General Switching Rule. *Li*, *J.*, +, *TSMC May 2020 1909-1917*
- Realization of Exact Tracking Control for Nonlinear Systems via a Nonrecursive Dynamic Design. Zhang, C., +, TSMC Feb. 2020 577-589
- Reinforcement Learning Neural Network-Based Adaptive Control for State and Input Time-Delayed Wheeled Mobile Robots. *Li*, *S.*, +, *TSMC Nov.* 2020 4171-4182
- Reliable Control for Two-Dimensional Systems Subject to Extended Dissipativity. *Tao*, J., +, *TSMC July 2020 2760-2765*
- Reliable Leader-to-Follower Formation Control of Multiagent Systems Under Communication Quantization and Attacks. *Huang, X.*, +, *TSMC Jan. 2020 89-99*
- Resilient Asynchronous H<sub>∞</sub> Control for Discrete-Time Markov Jump Singularly Perturbed Systems Based on Hidden Markov Model. *Li*, *F.*, +, *TSMC Aug.* 2020 2860-2869
- Robust Adaptive Fault-Tolerant Tracking Control for Uncertain Linear Systems With Actuator Failures Based on the Closed-Loop Reference Model. *Xiao, S.*, +, *TSMC Sept. 2020 3448-3455*
- Robust Optimal Control Scheme for Unknown Constrained-Input Nonlinear Systems via a Plug-n-Play Event-Sampled Critic-Only Algorithm. *Zhang, H.*, +, *TSMC Sept. 2020 3169-3180*
- Sampled-Data Synchronization of Network Systems in Industrial Manufacture. *Wu, Y., +, TSMC Sept. 2020 3210-3219*
- Self-Triggered State-Feedback Control for Stochastic Nonlinear Systems With Markovian Switching. Xie, W., +, TSMC Sept. 2020 3200-3209
- Simultaneous Input and State Estimation for Integrated Motor-Transmission Systems in a Controller Area Network Environment via an Adaptive Unscented Kalman Filter. *Jiang, K.*, +, *TSMC April 2020 1570-1579*
- Stabilization of Linear Systems With Input Saturation and Large Delay. *Li*, *P*, +, *TSMC Nov. 2020 4482-4491*
- Switching Adaptive Controller for the Nonlinear Systems With Uncertainties From Unknown Powers. Wang, M., +, TSMC July 2020 2375-2385
- TS Fuzzy Model-Based Controller Design for a Class of Nonlinear Systems Including Nonsmooth Functions. *Vafamand, N.*, +, *TSMC Jan. 2020 233-*244
- **Cloud computing** 
  - Dynamic Pricing-Based Resilient Strategy Design for Cloud Control System Under Jamming Attack. Yuan, H., +, TSMC Jan. 2020 111-122
  - Modeling and Analyzing Dynamic Fault-Tolerant Strategy for Deadline Constrained Task Scheduling in Cloud Computing. Fan, G., +, TSMC April 2020 1260-1274
  - Modeling and Evaluation of Service Composition in Commercial Multiclouds Using Timed Colored Petri Nets. *Entezari-Maleki, R.*, +, *TSMC March* 2020 947-961
  - QoS-Aware Service Composition in Cloud Manufacturing: A Gale–Shapley Algorithm-Based Approach. Li, F., +, TSMC July 2020 2386-2397

Scalable Hypernetwork-Based Manufacturing Services Supply Demand Matching Toward Industrial Internet Platforms. *Cheng, Y.*, +, *TSMC Dec.* 2020 5000-5014

## Cluster tools

Multiobjective Scheduling of Dual-Blade Robotic Cells in Wafer Fabrication. Zhu, Q., +, TSMC Dec. 2020 5015-5023

## Cognition

- Dealing With Large-Scale Spatio-Temporal Patterns in Imitative Interaction Between a Robot and a Human by Using the Predictive Coding Framework. *Hwang, J.*, +, *TSMC May 2020 1918-1931*
- Hybrid Intelligent Decision Support Using a Semiotic Case-Based Reasoning and Self-Organizing Maps. *Martins, D.M.L.*, +, *TSMC March 2020* 863-870

## Coke

Improved Constrained Model Predictive Tracking Control for Networked Coke Furnace Systems Over Uncertainty and Communication Loss. *Jin, Q.*, +, *TSMC May 2020 1877-1884* 

## Cold rolling

Diagnosis, Diagnosticability Analysis, and Test Point Design for Multiple Faults Based on Multisignal Modeling and Blind Source Separation. *Lu*, *N.*, +, *TSMC Jan. 2020 137-148* 

# Collaborative filtering

Integrating Community Context Information Into a Reliably Weighted Collaborative Filtering System Using Soft Ratings. Nguyen, V., +, TSMC April 2020 1318-1330

# Collision avoidance

- A Distributed Control Framework of Multiple Unmanned Aerial Vehicles for Dynamic Wildfire Tracking. *Pham, H.X.,* +, *TSMC April 2020 1537-1548*
- A Triangulation-Based Coverage Path Planning. An, V., +, TSMC June 2020 2157-2169
- Integrating Vector Field Approach and Input-to-State Stability Curved Path Following for Unmanned Aerial Vehicles. *Zhao, S.*, +, *TSMC Aug. 2020* 2897-2904

# **Combinatorial mathematics**

A Hybrid Multiobjective Memetic Algorithm for Multiobjective Periodic Vehicle Routing Problem With Time Windows. *Wang, J.*, +, *TSMC Nov.* 2020 4732-4745

## Communication networks

Special Issue on Event-Triggered Control and Filtering of Distributed Networked Systems. *Han, Q.*, +, *TSMC Sept. 2020 3108-3111* 

## Compensation

- Adaptive Fault-Tolerant Compensation Control for T–S Fuzzy Systems With Mismatched Parameter Uncertainties. *Yan, J., +, TSMC Sept. 2020 3412-3423*
- Consensus of Discrete-Time Multiagent Systems With State, Input, and Communication Delays. *Liu*, Q., +, *TSMC Nov. 2020 4425-4437*
- Fixed-Time Sliding Mode Disturbance Observer-Based Nonsmooth Backstepping Control for Hypersonic Vehicles. Sun, J., +, TSMC Nov. 2020 4377-4386
- Formation Control of Multiple Mobile Robots Incorporating an Extended State Observer and Distributed Model Predictive Approach. *Liu, A.*, +, *TSMC Nov. 2020 4587-4597*
- Predictive Control of Networked Nonlinear Multiagent Systems With Communication Constraints. *Liu, G., TSMC Nov. 2020 4447-4457*
- Robust Adaptive Fault-Tolerant Tracking Control for Uncertain Linear Systems With Actuator Failures Based on the Closed-Loop Reference Model. *Xiao, S., +, TSMC Sept. 2020 3448-3455*
- TS Fuzzy Model-Based Controller Design for a Class of Nonlinear Systems Including Nonsmooth Functions. *Vafamand, N.*, +, *TSMC Jan. 2020 233-*244

# Competitive intelligence

Integrating Multisourced Texts in Online Business Intelligence Systems. *Cao, J.*, +, *TSMC May 2020 1638-1648* 

# Complex networks

 Group Consensus for Heterogeneous Multiagent Systems in the Competition Networks With Input Time Delays. Ji, L., +, TSMC Nov. 2020 4655-4663
Optimal Disintegration Strategy With Heterogeneous Costs in Complex Networks. Deng, Y., +, TSMC Aug. 2020 2905-2913

- Parameters Variation-Based Synchronization on Derivative Coupled Lur'e Networks. *Tang, Z.*, +, *TSMC Dec. 2020 5395-5405*
- Pinning a Complex Network to Follow a Target System With Predesigned Control Inputs. *Wen, G.*, +, *TSMC June 2020 2293-2304*
- Recovering Network Structures With Time-Varying Nodal Parameters. Wang, X., +, TSMC July 2020 2588-2598
- Sampled-Data State Estimation for Complex Networks With Partial Measurements. Zhou, D., +, TSMC Nov. 2020 4787-4795
- Synchronization Analysis for Stochastic Delayed Multilayer Network With Additive Couplings. *Zhuang*, J., +, *TSMC Nov. 2020 4807-4816*

## Computational complexity

- A Novel Diagonal Class Entropy-Based Multilevel Image Thresholding Using Coral Reef Optimization. *Agrawal, S.*, +, *TSMC Nov. 2020 4688-4696*
- A Polynomial-Time Algorithm to Obtain State Machine Cover of Live and Safe Petri Nets. *Karatkevich, A.G.*, +, *TSMC Oct. 2020 3592-3597*
- Bi-Objective Optimal Scheduling With Raw Material's Shelf-Life Constraints in Unrelated Parallel Machines Production. *Wang, M.*, +, *TSMC Nov. 2020 4598-4610*
- Context-Aware Decision Support for Anti-Submarine Warfare Mission Planning Within a Dynamic Environment. *Mishra, M.*, +, *TSMC Jan. 2020* 318-335
- Efficient Sensor Deployments for Spatio-Temporal Environmental Monitoring. Nguyen, L., +, TSMC Dec. 2020 5306-5316
- Event-Driven Guaranteed Cost Control Design for Nonlinear Systems With Actuator Faults via Reinforcement Learning Algorithm. *Zhang, H.*, +, *TSMC Nov. 2020 4135-4150*
- Maximum *a Posteriori* Estimation for Information Source Detection. *Chang*, *B.*, +, *TSMC June 2020 2242-2256*
- New Discrete-Time Models of Zeroing Neural Network Solving Systems of Time-Variant Linear and Nonlinear Inequalities. *Shi*, *Y*., +, *TSMC Feb.* 2020 565-576
- Research Progress on Intelligent System's Learning, Optimization, and Control—Part II: Online Sparse Kernel Adaptive Algorithm. *Tan, F.*, +, *TSMC Dec. 2020 5369-5385*
- Social Recommendation With Evolutionary Opinion Dynamics. *Xiong, F.*, +, *TSMC Oct. 2020 3804-3816*
- Sparse Proximal Reinforcement Learning via Nested Optimization. Song, T., +, TSMC Nov. 2020 4020-4032
- The Orthogonal Packing and Scheduling Problem: Model, Heuristic, and Benchmark. He, K., +, TSMC April 2020 1372-1383

## **Computational fluid dynamics**

- Modeling of Room Temperature Dynamics for Efficient Building Energy Management. Rao, D.M.K.K.V., +, TSMC Feb. 2020 717-725
- Performability Evaluation of Water Distribution Systems During Maintenance Procedures. Carnevali, L., +, TSMC May 2020 1704-1720

Toward a Maneuverable Miniature Robotic Fish Equipped With a Novel Magnetic Actuator System. *Chen, X.,* +, *TSMC July 2020 2327-2337* 

## **Computational geometry**

One-Class Convex Hull-Based Algorithm for Classification in Distributed Environments. *Fernandez-Francos*, D., +, *TSMC Feb. 2020 386-396* 

## **Computational linguistics**

A Probabilistic Linguistic Group Decision-Making Method From a Reliability Perspective Based on Evidential Reasoning. *Ma*, *Z*., +, *TSMC July 2020* 2421-2435

# **Computational modeling**

Guest Editorial Special Issue: Modeling Support to Various Levels of Decision-Making. Olson, D.L., +, TSMC Oct. 2020 3728-3730

# **Computer architecture**

Guest Editorial Special Issue on Blockchain and Economic Knowledge Automation. Yuan, Y., +, TSMC Jan. 2020 2-8

# Computer network reliability

System Reliability Assessment of a Fast Retransmit Through *k* Separate Minimal Paths Under the Latency. *Huang, C.,* +, *TSMC April 2020 1395-1405* 

#### **Computer network security**

- A2G2V: Automatic Attack Graph Generation and Visualization and Its Applications to Computer and SCADA Networks. *Al Ghazo, A.T.*, +, *TSMC Oct. 2020 3488-3498*
- An Anonymous Off-Blockchain Micropayments Scheme for Cryptocurrencies in the Real World. Zhang, D., +, TSMC Jan. 2020 32-42
- Event-Based Tracking Control of Mobile Robot With Denial-of-Service Attacks. Tang, Y., +, TSMC Sept. 2020 3300-3310
- Input-Based Event-Triggering Consensus of Multiagent Systems Under Denial-of-Service Attacks. Xu, Y., +, TSMC April 2020 1455-1464
- Securing Data in Internet of Things (IoT) Using Cryptography and Steganography Techniques. *Khari, M.*, +, *TSMC Jan. 2020 73-80*

## Computer viruses

Maximum *a Posteriori* Estimation for Information Source Detection. *Chang*, *B.*, +, *TSMC June 2020 2242-2256* 

## **Computer vision**

- Detection of Power Line Insulator Defects Using Aerial Images Analyzed With Convolutional Neural Networks. *Tao, X.*, +, *TSMC April 2020 1486-1498*
- Fine-Grained Visual Comparison Based on Relative Attribute Quadratic Discriminant Analysis. Shi, H., +, TSMC June 2020 2113-2119
- Incorporating Discrete Constraints Into Random Walk-Based Graph Matching. Yang, X., +, TSMC April 2020 1406-1416
- Online Rail Surface Inspection Utilizing Spatial Consistency and Continuity. Gan, J., +, TSMC July 2020 2741-2751

## **Computerized monitoring**

Deep Reinforced Learning Tree for Spatiotemporal Monitoring With Mobile Robotic Wireless Sensor Networks. Chen, J., +, TSMC Nov. 2020 4197-4211

## Concave programming

Secure and Efficient Vehicle-to-Grid Energy Trading in Cyber Physical Systems: Integration of Blockchain and Edge Computing. *Zhou, Z.*, +, *TSMC Jan. 2020 43-57* 

## **Concurrency control**

- A Robust Control Approach to Automated Manufacturing Systems Allowing Multitype and Multiquantity of Resources With Petri Nets. *Wang, X.*, +, *TSMC Oct. 2020 3499-3514*
- Liveness Analysis and Deadlock Control for Automated Manufacturing Systems With Multiple Resource Requirements. *Feng, Y.*, +, *TSMC Feb. 2020* 525-538
- Supervisory Control of Deadlock-Prone Production Systems With Routing Flexibility and Unreliable Resources. *Yue, H., +, TSMC Oct. 2020 3528-3540*

## Condition monitoring

- Low-Cost, Efficient Output-Only Infrastructure Damage Detection With Wireless Sensor Networks. *Contreras, W.*, +, *TSMC March 2020 1003-1012*
- Modeling and Analyzing Linear Wireless Sensor Networks With Backbone Support. Mo, Y., +, TSMC Oct. 2020 3912-3924
- Modeling and Interpretation of Tidal Turbine Vibration Through Weighted Least Squares Regression. *Galloway, G.S.*, +, *TSMC April 2020 1252-1259*

# **Consumer behavior**

- Consumer-to-Consumer Digital-Product-Exchange in the Sharing Economy System With Risk Considerations: Will Digital-Product-Developers Suffer?. Choi, T., +, TSMC Dec. 2020 5049-5057
- Pricing and Return Strategy: Whether to Adopt a Cross-Channel Return Option?. Yan, S., +, TSMC Dec. 2020 5058-5073

#### **Consumer products**

Consumer-to-Consumer Digital-Product-Exchange in the Sharing Economy System With Risk Considerations: Will Digital-Product-Developers Suffer?. Choi, T., +, TSMC Dec. 2020 5049-5057

#### Continuous systems

- Consensus of Upper-Triangular Multiagent Systems With Sampled and Delayed Measurements via Output Feedback. *Li, F.,* +, *TSMC Feb. 2020* 600-608
- Performability Evaluation of Water Distribution Systems During Maintenance Procedures. Carnevali, L., +, TSMC May 2020 1704-1720

#### Continuous time systems

- Adaptive Dynamic Programming for Decentralized Stabilization of Uncertain Nonlinear Large-Scale Systems With Mismatched Interconnections. *Yang, X., +, TSMC Aug. 2020 2870-2882*
- Adaptive Dynamics Programming for  $H_{\infty}$  Control of Continuous-Time Unknown Nonlinear Systems via Generalized Fuzzy Hyperbolic Models. Su, H., +, TSMC Nov. 2020 3996-4008
- ADP-Based Robust Tracking Control for a Class of Nonlinear Systems With Unmatched Uncertainties. *Mu, C.*, +, *TSMC Nov. 2020 4056-4067*
- Discrete-Time Neural Network Approach for Tracking Control of Spherical Inverted Pendulum. *Ping, Z.*, +, *TSMC Aug. 2020 2989-2995*
- Distributed Continuous-Time Optimization With Scalable Adaptive Event-Based Mechanisms. *Wu, Z., +, TSMC Sept. 2020 3252-3257*
- Event-Triggered Adaptive Critic Control Design for Discrete-Time Constrained Nonlinear Systems. *Ha*, *M.*, +, *TSMC Sept. 2020 3158-3168*
- Event-Triggered Adaptive Dynamic Programming for Zero-Sum Game of Partially Unknown Continuous-Time Nonlinear Systems. *Xue, S.*, +, *TSMC Sept. 2020 3189-3199*
- Event-Triggered Integral Sliding-Mode Control for Nonlinear Constrained-Input Systems With Disturbances via Adaptive Dynamic Programming. Yang, D., +, TSMC Nov. 2020 4086-4096
- Finite-Time Control of Continuous-Time Networked Dynamical Systems. Liu, H., +, TSMC Nov. 2020 4623-4632
- Input-Based Event-Triggering Consensus of Multiagent Systems Under Denial-of-Service Attacks. Xu, Y., +, TSMC April 2020 1455-1464
- Integral Reinforcement Learning-Based Adaptive NN Control for Continuous-Time Nonlinear MIMO Systems With Unknown Control Directions. *Guo, X.*, +, *TSMC Nov. 2020 4068-4077*
- Interval Observers Design for Polynomial Fuzzy Singular Systems by Utilizing Sum-of-Squares Program. Pang. B., +, TSMC June 2020 1999-2006
- Model-Free Distributed Consensus Control Based on Actor–Critic Framework for Discrete-Time Nonlinear Multiagent Systems. *Wang, W.*, +, *TSMC Nov. 2020 4123-4134*
- Modified Repetitive Control Design for Nonlinear Systems With Time Delay Based on T–S Fuzzy Model. Sakthivel, R., +, TSMC Feb. 2020 646-655
- Necessary and Sufficient Conditions for Leader-Following Bipartite Consensus With Measurement Noise. Ma, C., +, TSMC May 2020 1976-1981
- Passivity-Based Robust Sampled-Data Control for Markovian Jump Systems. Chen, G., +, TSMC July 2020 2671-2684
- Robust Optimal Control for Disturbed Nonlinear Zero-Sum Differential Games Based on Single NN and Least Squares. *Song, R., +, TSMC Nov.* 2020 4009-4019
- Robust Optimal Control Scheme for Unknown Constrained-Input Nonlinear Systems via a Plug-n-Play Event-Sampled Critic-Only Algorithm. *Zhang*, *H.*, +, *TSMC Sept. 2020 3169-3180*
- Sampled-Data Consensus for Multiagent Systems With Time Delays and Packet Losses. Xing, M., +, TSMC Jan. 2020 203-210
- Sampled-Data State Estimation for Complex Networks With Partial Measurements. Zhou, D., +, TSMC Nov. 2020 4787-4795
- Value Iteration-Based H<sub>∞</sub> Controller Design for Continuous-Time Nonlinear Systems Subject to Input Constraints. *Zhang, H.*, +, *TSMC Nov. 2020* 3986-3995

#### Contracts

- Automated Demand Response Framework in ELNs: Decentralized Scheduling and Smart Contract. Yang, X., +, TSMC Jan. 2020 58-72
- Coordination and Enhancement Schemes for Quick Response Mass Customization Supply Chains With Consumer Returns and Salvage Value Considerations. *Guo*, S., +, *TSMC Feb. 2020 673-685*
- Environmental Taxes in Newsvendor Supply Chains: A Mean-Downside-Risk Analysis. Chan, H., +, TSMC Dec. 2020 4856-4869
- Information Sharing in a Supply Chain With a Coopetitive Contract Manufacturer. Wang, J., +, TSMC May 2020 1777-1793
- Reverse Supply Chain Systems Coordination Across Multiple Links With Duopolistic Third Party Collectors. *Hosseini-Motlagh, S.*, +, *TSMC Dec.* 2020 4882-4893
- Value of Bargaining Contract in a Supply Chain System With Sustainability Investment: An Incentive Analysis. Shi, X., +, TSMC April 2020 1622-1634

## Control engineering computing

- Discrete-Event-Based Deterministic Execution Semantics With Timestamps for Industrial Cyber-Physical Systems. *Dai, W.*, +, *TSMC March 2020 851-862*
- Model-Free Optimal Output Regulation for Linear Discrete-Time Lossy Networked Control Systems. Fan, J., +, TSMC Nov. 2020 4033-4042
- Optimal Setting and Control for Iron Removal Process Based on Adaptive Neural Network Soft-Sensor. *Xie, S.*, +, *TSMC July 2020 2408-2420*
- Resilient Nonlinear Control for Attacked Cyber-Physical Systems. *Pang, Y.*, +, *TSMC June 2020 2129-2138*

# **Control nonlinearities**

- Adaptive Backstepping Hybrid Fuzzy Sliding Mode Control for Uncertain Fractional-Order Nonlinear Systems Based on Finite-Time Scheme. *Song*, *S.*, +, *TSMC April 2020 1559-1569*
- Adaptive Fault-Tolerant Compensation Control and Its Application to Nonlinear Suspension Systems. Pan, H., +, TSMC May 2020 1766-1776
- Adaptive Fuzzy Fault-Tolerant Tracking Control of Uncertain Nonlinear Time-Varying Delay Systems. Zhai, D., +, TSMC May 2020 1840-1849
- Adaptive Fuzzy Tracking Control for a Class of Nonstrict-Feedback Stochastic Nonlinear Systems With Actuator Faults. *Su, H.*, +, *TSMC Sept.* 2020 3456-3469
- Adaptive Robust Nonlinear Control Design for Course Tracking of Ships Subject to External Disturbances and Input Saturation. *Du*, *J.*, +, *TSMC Jan. 2020 193-202*
- An Adaptive Neural Network Controller for Active Suspension Systems With Hydraulic Actuator. *Liu*, *Y*, +, *TSMC Dec. 2020 5351-5360*
- Consensus Tracking Control for Distributed Nonlinear Multiagent Systems via Adaptive Neural Backstepping Approach. *Shang, Y*, +, *TSMC July 2020 2436-2444*
- Decentralized Adaptive NN Output-Feedback Fault Compensation Control of Nonlinear Switched Large-Scale Systems With Actuator Dead-Zones. *Ma*, *Z*., +, *TSMC Sept. 2020 3435-3447*
- Distributed Adaptive FBC of Uncertain Nonaffine Multiagent Systems Preceded by Unknown Input Nonlinearities With Unknown Gain Sign. Shahnazi, R., +, TSMC Aug. 2020 3036-3046
- Error-Driven Nonlinear Feedback Design for Fuzzy Adaptive Dynamic Surface Control of Nonlinear Systems With Prescribed Tracking Performance. *Dong, H.*, +, *TSMC March 2020 1013-1023*
- Finite-Time Adaptive Fuzzy Decentralized Control for Nonstrict-Feedback Nonlinear Systems With Output-Constraint. *Li, K.*, +, *TSMC Dec. 2020* 5271-5284
- Fixed-Time Sliding Mode Disturbance Observer-Based Nonsmooth Backstepping Control for Hypersonic Vehicles. Sun, J., +, TSMC Nov. 2020 4377-4386
- Fuzzy Adaptive Output Feedback Control for MIMO Switched Nontriangular Structure Nonlinear Systems With Unknown Control Directions. *Huang*, L., +, TSMC Feb. 2020 550-564
- Image Dynamics-Based Visual Servoing for Quadrotors Tracking a Target With a Nonlinear Trajectory Observer. *Cao, Z.*, +, *TSMC Jan. 2020 376-384*
- Leader-Following Consensus for a Class of Nonlinear Strick-Feedback Multiagent Systems With State Time-Delays. *Chen, K.*, +, *TSMC July 2020* 2351-2361
- Neural Network-Based Adaptive Control for Pure-Feedback Stochastic Nonlinear Systems With Time-Varying Delays and Dead-Zone Input. *Li*, *Z.*, +, *TSMC Dec. 2020 5317-5329*
- Observer-Based Adaptive Finite-Time Quantized Tracking Control of Nonstrict-Feedback Nonlinear Systems With Asymmetric Actuator Saturation. *Yu, Z.*, +, *TSMC Nov. 2020 4545-4556*
- Prescribed Performance Controller Design for DC Converter System With Constant Power Loads in DC Microgrid. Xu, X., +, TSMC Nov. 2020 4339-4348
- Prescribed Performance Tracking Control of a Class of Uncertain Pure-Feedback Nonlinear Systems With Input Saturation. *Yang, Y.*, +, *TSMC May* 2020 1733-1745

TS Fuzzy Model-Based Controller Design for a Class of Nonlinear Systems Including Nonsmooth Functions. *Vafamand, N.*, +, *TSMC Jan. 2020 233-*244

# Control system analysis

- Robust Hybrid Nonlinear Control Systems for the Dynamics of a Quadcopter Drone. Santoso, F, +, TSMC Aug. 2020 3059-3071
- Stability, l<sub>2</sub>-Gain Analysis, and Parity Space-Based Fault Detection for Discrete-Time Switched Systems Under Dwell-Time Switching. Sun, T, +, TSMC Sept. 2020 3358-3368

## Control system synthesis

- $\mathcal{H}_{\infty}$  PID Control With Fading Measurements: The Output-Feedback Case. *Zhao, D.,* +, *TSMC June 2020 2170-2180*
- $H_{\infty}$  Reliable Bumpless Transfer Control for Switched Systems With State and Rate Constraints. *Zhao, Y.*, +, *TSMC Oct. 2020 3925-3935*
- A Hybrid Proportional Impulsive Plus Integral Robust Control Algorithm for H∞ Stabilization. *Chen, H.*, +, *TSMC Dec. 2020 5211-5220*
- A Neural Adaptive Approach for Active Fault-Tolerant Control Design in UAV. *Abbaspour, A., +, TSMC Sept. 2020 3401-3411*
- Active Control of Uncertain Seat Suspension System Based on a State and Disturbance Observer. *Lathkar, M.S.*, +, *TSMC March 2020 840-850*
- Adaptive Backstepping Hybrid Fuzzy Sliding Mode Control for Uncertain Fractional-Order Nonlinear Systems Based on Finite-Time Scheme. *Song, S.*, +, *TSMC April 2020 1559-1569*
- Adaptive Consensus of Multiagent Systems With Unknown High-Frequency Gain Signs Under Directed Graphs. *Wang, Q.*, +, *TSMC June 2020 2181-*2186
- Adaptive Critic Learning and Experience Replay for Decentralized Event-Triggered Control of Nonlinear Interconnected Systems. *Yang, X.*, +, *TSMC Nov. 2020 4043-4055*
- Adaptive Dynamic Programming for Decentralized Stabilization of Uncertain Nonlinear Large-Scale Systems With Mismatched Interconnections. *Yang, X.*, +, *TSMC Aug. 2020 2870-2882*
- Adaptive Dynamics Programming for  $H_{\infty}$  Control of Continuous-Time Unknown Nonlinear Systems via Generalized Fuzzy Hyperbolic Models. *Su, H.*, +, *TSMC Nov. 2020 3996-4008*
- Adaptive Fault-Tolerant Compensation Control and Its Application to Nonlinear Suspension Systems. Pan, H., +, TSMC May 2020 1766-1776
- Adaptive Fault-Tolerant Compensation Control for T–S Fuzzy Systems With Mismatched Parameter Uncertainties. *Yan, J.*, +, *TSMC Sept. 2020 3412-3423*
- Adaptive Fault-Tolerant Control of Uncertain Switched Nonaffine Nonlinear Systems With Actuator Faults and Time Delays. *Wu, L.*, +, *TSMC Sept.* 2020 3470-3480
- Adaptive Fault-Tolerant H-Infinity Output Feedback Control for Lead–Wing Close Formation Flight. *Liu*, *C*., +, *TSMC Aug. 2020 2804-2814*
- Adaptive Fuzzy Fault-Tolerant Tracking Control of Uncertain Nonlinear Time-Varying Delay Systems. Zhai, D., +, TSMC May 2020 1840-1849
- Adaptive Fuzzy Tracking Control for a Class of Nonstrict-Feedback Stochastic Nonlinear Systems With Actuator Faults. *Su, H.*, +, *TSMC Sept.* 2020 3456-3469
- Adaptive Fuzzy Tracking Control of Nonlinear Switched Stochastic Systems With Prescribed Performance and Unknown Control Directions. *Liu*, *Y*, +, *TSMC Feb. 2020 590-599*
- Adaptive Partial Reinforcement Learning Neural Network-Based Tracking Control for Wheeled Mobile Robotic Systems. *Ding, L.*, +, *TSMC July* 2020 2512-2523
- Adaptive Robust Nonlinear Control Design for Course Tracking of Ships Subject to External Disturbances and Input Saturation. *Du*, *J.*, +, *TSMC Jan. 2020 193-202*
- Adaptive Stabilization of Discrete-Time Nonminimum Phase Systems. *Que*, *H.*, +, *TSMC Aug*. 2020 2828-2833
- An Adaptive Neural Network Controller for Active Suspension Systems With Hydraulic Actuator. *Liu*, *Y*, +, *TSMC Dec. 2020 5351-5360*
- An Approach to Design Robust Tracking Controllers for Nonlinear Uncertain Systems. *Celentano, L., +, TSMC Aug. 2020 3010-3023*

- An Event-Triggered Approach to Sliding Mode Control of Markovian Jump Lur'e Systems Under Hidden Mode Detections. *Song, J.*, +, *TSMC April* 2020 1514-1525
- An Industrial-Based Framework for Distributed Control of Heterogeneous Network Systems. *Wu, Y.*, +, *TSMC June 2020 2120-2128*
- Asynchronous Quasi-Consensus of Heterogeneous Multiagent Systems With Nonuniform Input Delays. *Wang, Z.*, +, *TSMC Aug. 2020 2815-2827*
- Barrier Lyapunov Functions-Based Adaptive Fault Tolerant Control for Flexible Hypersonic Flight Vehicles With Full State Constraints. *Yuan, Y*, +, *TSMC Sept. 2020 3391-3400*
- Co-Design of Distributed Model-Based Control and Event-Triggering Scheme for Load Frequency Regulation in Smart Grids. *Liu, S.*, +, *TSMC Sept. 2020 3311-3319*
- Co-Design of Finite-Time Convergence and Noise Suppression: A Unified Neural Model for Time Varying Linear Equations With Robotic Applications. *Xiao, L., +, TSMC Dec. 2020 5233-5243*
- Consensus of Discrete-Time Multiagent Systems With State, Input, and Communication Delays. *Liu*, *Q*., +, *TSMC Nov. 2020 4425-4437*
- Consensus of Lipschitz Nonlinear Multiagent Systems With Input Delay via Observer-Based Truncated Prediction Feedback. *Chu, H.*, +, *TSMC Oct.* 2020 3784-3794
- Consensus of Upper-Triangular Multiagent Systems With Sampled and Delayed Measurements via Output Feedback. *Li, F.,* +, *TSMC Feb. 2020* 600-608
- Consensus Tracking Control for Distributed Nonlinear Multiagent Systems via Adaptive Neural Backstepping Approach. *Shang, Y.*, +, *TSMC July 2020 2436-2444*
- Continuous State Feedback Control Based on Intelligent Optimization for First-Order Nonholonomic Systems. *Lai*, X., +, *TSMC July 2020 2534-2540*
- Contraction Mapping-Based Robust Convergence of Iterative Learning Control With Uncertain, Locally Lipschitz Nonlinearity. *Meng, D.*, +, *TSMC Feb. 2020 442-454*
- Control Design for Bounded Partially Controlled TPNs Using Timed Extended Reachability Graphs and MDP. *Lefebvre, D.*, +, *TSMC June* 2020 2273-2283
- Control Strategy Based on Model Reduction and Online Intelligent Calculation for Planar *n*-Link Underactuated Manipulators. *Wang, Y.*, +, *TSMC March 2020 1046-1054*
- Data-Based Adaptive Dynamic Programming for a Class of Discrete-Time Systems With Multiple Delays. *Zhang, H., +, TSMC Feb. 2020 432-441*
- Data-Driven Guaranteed Cost Control Design via Reinforcement Learning for Linear Systems With Parameter Uncertainties. Wu, H., +, TSMC Nov. 2020 4151-4159
- Decentralized Adaptive NN Output-Feedback Fault Compensation Control of Nonlinear Switched Large-Scale Systems With Actuator Dead-Zones. *Ma*, *Z*., +, *TSMC Sept. 2020 3435-3447*
- Delta Operator-Based Model Predictive Control With Fault Compensation for Steer-by-Wire Systems. *Huang, C.*, +, *TSMC June 2020 2257-2272*
- Design of Resilient Reliable Dissipativity Control for Systems With Actuator Faults and Probabilistic Time-Delay Signals via Sampled-Data Approach. *Manivannan, R.*, +, *TSMC Nov. 2020 4243-4255*
- Design of Robust Sliding Mode Control With Adaptive Reaching Law. *Han*, H., +, *TSMC Nov. 2020 4415-4424*
- Deterministic Policy Gradient With Integral Compensator for Robust Quadrotor Control. *Wang, Y.*, +, *TSMC Oct. 2020 3713-3725*
- Dissipative Fuzzy Tracking Control for Nonlinear Networked Systems With Quantization. *Li*, *Z*., +, *TSMC Dec. 2020 5130-5141*
- Distributed Adaptive FBC of Uncertain Nonaffine Multiagent Systems Preceded by Unknown Input Nonlinearities With Unknown Gain Sign. Shahnazi, R., +, TSMC Aug. 2020 3036-3046
- Distributed Adaptive Output Feedback Leader-Following Consensus Control for Nonlinear Multiagent Systems. *Hua, C., +, TSMC Nov. 2020 4309-4317*
- Distributed Fault Detection and Isolation for Multiagent Systems: An Interval Observer Approach. Zhang, Z., +, TSMC June 2020 2220-2230

- Distributed Fault Estimation for a Class of Nonlinear Multiagent Systems. Liu, X., +, TSMC Sept. 2020 3382-3390
- Distributed  $H_{\infty}$  Optimal Tracking Control for Strict-Feedback Nonlinear Large-Scale Systems With Disturbances and Saturating Actuators. *Tan, L.N., TSMC Nov. 2020 4719-4731*
- Distributed Observer-Based Consensus Over Directed Networks With Limited Communication Bandwidth Constraints. *Rong, L.*, +, *TSMC Dec. 2020* 5361-5368
- Distributed Optimal Steady-State Regulation for High-Order Multiagent Systems With External Disturbances. *Tang, Y., TSMC Nov. 2020 4828-*4835
- Distributed PI Control for Consensus of Heterogeneous Multiagent Systems Over Directed Graphs. Lv, Y., +, TSMC April 2020 1602-1609
- Disturbance Rejection of Nonlinear Boiler–Turbine Unit Using High-Order Sliding Mode Observer. Su, Z., +, TSMC Dec. 2020 5432-5443
- Disturbance-Observer-Based Fault Tolerant Control of High-Speed Trains: A Markovian Jump System Model Approach. *Yao, X.*, +, *TSMC April 2020* 1476-1485
- Dynamic Event-Triggered Distributed Coordination Control and its Applications: A Survey of Trends and Techniques. *Ge, X.*, +, *TSMC Sept. 2020* 3112-3125
- Dynamic Event-Triggered State Estimation for Discrete-Time Singularly Perturbed Systems With Distributed Time-Delays. *Ma*, *L*., +, *TSMC Sept.* 2020 3258-3268
- Dynamic Output Feedback Asynchronous Control of Networked Markovian Jump Systems. *Liu*, X., +, *TSMC July 2020 2705-2715*
- Error State Convergence on Master–Slave Generalized Uncertain Neural Networks Using Robust Nonlinear  $H_{\infty}$  Control Theory. *Chen, H.*, +, *TSMC June 2020 2042-2055*
- Error-Driven Nonlinear Feedback Design for Fuzzy Adaptive Dynamic Surface Control of Nonlinear Systems With Prescribed Tracking Performance. *Dong, H.*, +, *TSMC March 2020 1013-1023*
- Estimation for a Class of Parameter-Controlled Tunnel Diode Circuits. *Chang, X.*, +, *TSMC Nov. 2020 4697-4707*
- Estimator-Based  $H_{\infty}$  Sampled-Data Fuzzy Control for Nonlinear Parabolic PDE Systems. *Wang, Z.*, +, *TSMC July 2020 2491-2500*
- Event-Based Security Control for Stochastic Networked Systems Subject to Attacks. Yan, H., +, TSMC Nov. 2020 4643-4654
- Event-Driven Guaranteed Cost Control Design for Nonlinear Systems With Actuator Faults via Reinforcement Learning Algorithm. *Zhang, H.*, +, *TSMC Nov. 2020 4135-4150*
- Event-Triggered H<sub>co</sub> State Estimation of 2-DOF Quarter-Car Suspension Systems With Nonhomogeneous Markov Switching. Yan, H., +, TSMC Sept. 2020 3320-3329
- Event-Triggered Adaptive Critic Control Design for Discrete-Time Constrained Nonlinear Systems. *Ha*, *M.*, +, *TSMC Sept. 2020 3158-3168*
- Event-Triggered Adaptive Output Regulation for a Class of Nonlinear Systems With Unknown Control Direction. *Lei, Y.*, +, *TSMC Sept. 2020 3181-3188*
- Event-Triggered and Self-Triggered H<sub>∞</sub> Control of Uncertain Switched Linear Systems. *Qi*, *Y*. +, *TSMC April 2020 1442-1454*
- Event-Triggered Integral Sliding-Mode Control for Nonlinear Constrained-Input Systems With Disturbances via Adaptive Dynamic Programming. *Yang, D.*, +, *TSMC Nov. 2020 4086-4096*
- Event-Triggered Robust Stabilization of Nonlinear Input-Constrained Systems Using Single Network Adaptive Critic Designs. *Yang, X.*, +, *TSMC Sept. 2020 3145-3157*
- Exponential Finite-Time Consensus of Fractional-Order Multiagent Systems. Liu, H., +, TSMC April 2020 1549-1558
- Fault Detection Approaches for Fuzzy Large-Scale Systems With Unknown Membership Functions. *Wang, H.,* +, *TSMC Sept. 2020 3333-3343*
- Fault-Tolerant Control for Systems With Model Uncertainty and Multiplicative Faults. Zhao, Z., +, TSMC Feb. 2020 514-524
- Filtering Design for Multirate Sampled-Data Systems. Li, Z., +, TSMC Nov. 2020 4224-4232
- Finite-Time  $\mathcal{H}_{\infty}$  Controller Synthesis of T–S Fuzzy Systems. *Li*, *Y*, +, *TSMC May 2020 1956-1963*

- Finite-Time Adaptive Fuzzy Decentralized Control for Nonstrict-Feedback Nonlinear Systems With Output-Constraint. *Li*, *K*., +, *TSMC Dec. 2020* 5271-5284
- Finite-Time Control of Continuous-Time Networked Dynamical Systems. Liu, H., +, TSMC Nov. 2020 4623-4632
- Finite-Time Time-Varying Formation Tracking for High-Order Multiagent Systems With Mismatched Disturbances. *Hua, Y.*, +, *TSMC Oct. 2020* 3795-3803
- Fixed-Time Sliding Mode Disturbance Observer-Based Nonsmooth Backstepping Control for Hypersonic Vehicles. *Sun, J.*, +, *TSMC Nov. 2020* 4377-4386
- Formation Control of Multiple Mobile Robots Incorporating an Extended State Observer and Distributed Model Predictive Approach. *Liu, A.*, +, *TSMC Nov. 2020 4587-4597*
- Fuzzy Adaptive Output Feedback Control for MIMO Switched Nontriangular Structure Nonlinear Systems With Unknown Control Directions. *Huang*, L., +, TSMC Feb. 2020 550-564
- Fuzzy Adaptive Quantized Fault-Tolerant Control of Strict-Feedback Nonlinear Systems With Mismatched External Disturbances. *Jing, Y.*, +, *TSMC Sept. 2020 3424-3434*
- GrHDP Solution for Optimal Consensus Control of Multiagent Discrete-Time Systems. Zhong, X., +, TSMC July 2020 2362-2374
- Guaranteed Cost Control of Uncertain Networked Control Systems With a Hybrid Communication Scheme. *Zhang, J.*, +, *TSMC Sept. 2020 3126-3135*
- H<sub>∞</sub> Tracking Control of Discrete-Time System With Delays via Data-Based Adaptive Dynamic Programming. Liu, Y, +, TSMC Nov. 2020 4078-4085
- Image Dynamics-Based Visual Servoing for Quadrotors Tracking a Target With a Nonlinear Trajectory Observer. *Cao, Z.*, +, *TSMC Jan. 2020 376-384*
- Improved Constrained Model Predictive Tracking Control for Networked Coke Furnace Systems Over Uncertainty and Communication Loss. *Jin*, Q., +, TSMC May 2020 1877-1884
- Improved Control for Industrial Systems Over Model Uncertainty: A Receding Horizon Expanded State Space Control Approach. Zhang, R., TSMC April 2020 1343-1349
- Improved Minmax Control for Industrial Networked Systems Over Imperfect Communication. Jin, Q., +, TSMC April 2020 1310-1317
- Integral Reinforcement Learning-Based Adaptive NN Control for Continuous-Time Nonlinear MIMO Systems With Unknown Control Directions. *Guo, X.*, +, *TSMC Nov. 2020 4068-4077*
- Integrating Vector Field Approach and Input-to-State Stability Curved Path Following for Unmanned Aerial Vehicles. *Zhao, S.*, +, *TSMC Aug. 2020* 2897-2904
- Interval Observers Design for Polynomial Fuzzy Singular Systems by Utilizing Sum-of-Squares Program. Pang, B., +, TSMC June 2020 1999-2006
- Leader-Following Consensus for a Class of Nonlinear Strick-Feedback Multiagent Systems With State Time-Delays. *Chen, K.*, +, *TSMC July 2020* 2351-2361
- Minimum-Learning-Parameters-Based Adaptive Neural Fault Tolerant Control With Its Application to Continuous Stirred Tank Reactor. *Wang, Z.*, +, *TSMC April 2020 1275-1285*
- Model-Free  $H_{\infty}$  Optimal Tracking Control of Constrained Nonlinear Systems via an Iterative Adaptive Learning Algorithm. *Hou, J.*, +, *TSMC Nov.* 2020 4097-4108
- Model-Free Optimal Output Regulation for Linear Discrete-Time Lossy Networked Control Systems. Fan, J., +, TSMC Nov. 2020 4033-4042
- Modified Repetitive Control Design for Nonlinear Systems With Time Delay Based on T–S Fuzzy Model. Sakthivel, R., +, TSMC Feb. 2020 646-655
- Motion Tracking Control Design for a Class of Nonholonomic Mobile Robot Systems. *Fu*, *J.*, +, *TSMC June 2020 2150-2156*
- N-Step MPC for Systems With Persistent Bounded Disturbances Under SCP. Song, Y., +, TSMC Nov. 2020 4762-4772
- Neural Network-Based Adaptive Control for Pure-Feedback Stochastic Nonlinear Systems With Time-Varying Delays and Dead-Zone Input. *Li*, *Z.*, +, *TSMC Dec. 2020 5317-5329*

- Neural Networks-Based Active Fault-Tolerant Control for a Class of Switched Nonlinear Systems With Its Application to RCL Circuit. *Tang, L.*, +, *TSMC Nov. 2020 4270-4282*
- Nonfragile l<sub>2</sub> –l<sub>∞</sub> Fault Estimation for Markovian Jump 2-D Systems With Specified Power Bounds. Luo, Y., +, TSMC May 2020 1964-1975
- Nonfragile and Nonsynchronous Synthesis of Reachable Set for Bernoulli Switched Systems. *Che, W.*, +, *TSMC Feb. 2020 726-731*
- Nonsmooth Decentralized Stabilization for Interconnected Systems Subject to Strongly Coupled Uncertain Interactions. *Zhang, C.*, +, *TSMC July 2020* 2685-2692
- Observer-Based Adaptive Finite-Time Quantized Tracking Control of Nonstrict-Feedback Nonlinear Systems With Asymmetric Actuator Saturation. *Yu, Z.*, +, *TSMC Nov. 2020 4545-4556*
- Observer-Based Adaptive Sliding Mode Control for T–S Fuzzy Singular Systems. Sun, X., +, TSMC Nov. 2020 4438-4446
- Observer-Based Integral Sliding Mode Tracking Control for a Pneumatic Cylinder With Varying Loads. *Zhao, L.*, +, *TSMC July 2020 2650-2658*
- Parameter Optimization of Reduced Fluid Model via Sparse Point Measurements. Zhou, S., +, TSMC Dec. 2020 5201-5210
- Partial State Constraints-Based Control for Nonlinear Systems With Backlash-Like Hysteresis. *Liu*, *L*., +, *TSMC Aug. 2020 3100-3104*
- Passivity-Based Robust Sampled-Data Control for Markovian Jump Systems. Chen, G., +, TSMC July 2020 2671-2684
- Performance Improvement of Consensus Tracking for Linear Multiagent Systems With Input Saturation: A Gain Scheduled Approach. *Chu, H.*, +, *TSMC March 2020 734-746*
- Perimeter Control of Multiregion Urban Traffic Networks With Time-Varying Delays. Wan, Y., +, TSMC Aug. 2020 2795-2803
- Practical Regulation of Nonholonomic Systems Using Virtual Trajectories and LaSalle Invariance Principle. *Zhang, D.*, +, *TSMC May 2020 1833-1839*
- Practically Finite-Time Control for Nonlinear Systems With Mismatching Conditions and Application to a Robot System. *Min, H., +, TSMC Feb.* 2020 480-489
- Predictive Control of Networked Nonlinear Multiagent Systems With Communication Constraints. *Liu, G., TSMC Nov. 2020 4447-4457*
- Prescribed Performance Controller Design for DC Converter System With Constant Power Loads in DC Microgrid. Xu, X., +, TSMC Nov. 2020 4339-4348
- Prescribed Performance Tracking Control of a Class of Uncertain Pure-Feedback Nonlinear Systems With Input Saturation. *Yang, Y.*, +, *TSMC May* 2020 1733-1745
- Prescribed Performance-Based Consensus of Nonlinear Multiagent Systems With Unknown Control Directions and Switching Networks. *Liu, Y.*, +, *TSMC Feb. 2020 609-616*
- Quantized Control for Networked Switched Systems With a More General Switching Rule. *Li*, *J.*, +, *TSMC May 2020 1909-1917*
- Realization of Exact Tracking Control for Nonlinear Systems via a Nonrecursive Dynamic Design. Zhang, C., +, TSMC Feb. 2020 577-589
- Reducing the Conservatism of Stabilization for Discrete-Time Takagi– Sugeno Fuzzy Systems via a New Extended Representation Approach. *Xie*, *X.*, +, *TSMC Nov. 2020 4387-4393*
- Reinforcement Learning Neural Network-Based Adaptive Control for State and Input Time-Delayed Wheeled Mobile Robots. *Li*, *S.*, +, *TSMC Nov.* 2020 4171-4182
- Reliable Control for Two-Dimensional Systems Subject to Extended Dissipativity. *Tao*, J., +, *TSMC July 2020 2760-2765*
- Reliable Leader-to-Follower Formation Control of Multiagent Systems Under Communication Quantization and Attacks. *Huang, X.*, +, *TSMC Jan. 2020 89-99*
- Resilient Asynchronous  $H_{\infty}$  Control for Discrete-Time Markov Jump Singularly Perturbed Systems Based on Hidden Markov Model. *Li*, *F.*, +, *TSMC Aug. 2020 2860-2869*
- Resilient Nonlinear Control for Attacked Cyber-Physical Systems. *Pang, Y.*, +, *TSMC June 2020 2129-2138*
- Robust Adaptive Control of an Offshore Ocean Thermal Energy Conversion System. *He, X.*, +, *TSMC Dec. 2020 5285-5295*

- Robust Adaptive Fault-Tolerant Tracking Control for Uncertain Linear Systems With Actuator Failures Based on the Closed-Loop Reference Model. *Xiao, S.*, +, *TSMC Sept. 2020 3448-3455*
- Robust Adaptive Fuzzy Tracking Control for Uncertain MIMO Nonlinear Nonminimum Phase System. Hu, X., +, TSMC June 2020 2017-2028
- Robust Bipartite Consensus and Tracking Control of High-Order Multiagent Systems With Matching Uncertainties and Antagonistic Interactions. *Liu*, *M.*, +, *TSMC July 2020 2541-2550*
- Robust Optimal Control for Disturbed Nonlinear Zero-Sum Differential Games Based on Single NN and Least Squares. *Song, R.*, +, *TSMC Nov.* 2020 4009-4019
- Robust Optimal Control Scheme for Unknown Constrained-Input Nonlinear Systems via a Plug-n-Play Event-Sampled Critic-Only Algorithm. *Zhang*, H., +, TSMC Sept. 2020 3169-3180
- Sampled-Data Consensus for Multiagent Systems With Time Delays and Packet Losses. Xing, M., +, TSMC Jan. 2020 203-210
- Sampled-Data Synchronization of Network Systems in Industrial Manufacture. Wu, Y., +, TSMC Sept. 2020 3210-3219
- Self-Triggered and Event-Triggered Control for Linear Systems With Quantization. Zhou, T., +, TSMC Sept. 2020 3136-3144
- Self-Triggered State-Feedback Control for Stochastic Nonlinear Systems With Markovian Switching. Xie, W., +, TSMC Sept. 2020 3200-3209
- Sliding-Mode Control for Stabilizing High-Order Stochastic Systems: Application to One-Degree-of-Freedom Aerial Device. *Vargas, A.N.*, +, *TSMC Nov. 2020 4318-4325*
- Stability Analysis and Control for Switched System With Bounded Actuators. Wang, Q., +, TSMC Nov. 2020 4506-4512
- Stabilization of Canonical Systems via Adaptive Chattering Free Sliding Modes With No Singularity Problems. Aghababa, M.P., TSMC May 2020 1696-1703
- Stock Management Problem: Adaptive Fixed-Time Convergent Continuous Controller Design. *Basin, M.V.*, +, *TSMC Dec. 2020 4974-4983*
- Structural Sparsity in Networked Control Systems. *Florez, A.J.*, +, *TSMC Dec. 2020 5152-5161*
- Switching Adaptive Controller for the Nonlinear Systems With Uncertainties From Unknown Powers. Wang, M., +, TSMC July 2020 2375-2385
- Synchronization Analysis for Stochastic Delayed Multilayer Network With Additive Couplings. *Zhuang*, J., +, *TSMC Nov. 2020 4807-4816*
- The Design of Quasi-Optimal Higher Order Sliding Mode Control via Disturbance Observer and Switching-Gain Adaptation. *Li*, *P*., +, *TSMC Nov.* 2020 4817-4827
- The Specified Finite-Time Distributed Observers-Based Velocity-Free Attitude Synchronization for Rigid Bodies on SO(3). *Peng, X., +, TSMC April* 2020 1610-1621
- TS Fuzzy Model-Based Controller Design for a Class of Nonlinear Systems Including Nonsmooth Functions. *Vafamand, N.*, +, *TSMC Jan. 2020 233-*244
- Control systems
  - Editorial Special Issue on Adaptive Dynamic Programming and Reinforcement Learning. *Liu*, *D.*, +, *TSMC Nov. 2020 3944-3947*

## Controller area networks

Simultaneous Input and State Estimation for Integrated Motor-Transmission Systems in a Controller Area Network Environment via an Adaptive Unscented Kalman Filter. *Jiang, K.*, +, *TSMC April 2020 1570-1579* 

#### Convergence

- An Approach to Design Robust Tracking Controllers for Nonlinear Uncertain Systems. *Celentano, L., +, TSMC Aug. 2020 3010-3023*
- An Approximate Distributed Gradient Estimation Method for Networked System Optimization Under Limited Communications. *Wang, J.*, +, *TSMC Dec.* 2020 5142-5151
- Co-Design of Finite-Time Convergence and Noise Suppression: A Unified Neural Model for Time Varying Linear Equations With Robotic Applications. *Xiao, L., +, TSMC Dec. 2020 5233-5243*
- Design and Analysis of a Novel Finite-Time Convergent and Noise-Tolerant Recurrent Neural Network for Time-Variant Matrix Inversion. Li, W., TSMC Nov. 2020 4362-4376

- Design of Robust Sliding Mode Control With Adaptive Reaching Law. *Han, H.*, +, *TSMC Nov. 2020 4415-4424*
- Expected Convergence Rate to Consensus in Asymmetric Networks: Analysis and Distributed Estimation. *Asadi, M.M.*, +, *TSMC March 2020 972-*987
- Random Gradient-Free Optimization for Multiagent Systems With Communication Noises Under a Time-Varying Weight Balanced Digraph. *Wang*, D., +, TSMC Jan. 2020 281-289
- Reliable Leader-to-Follower Formation Control of Multiagent Systems Under Communication Quantization and Attacks. *Huang, X., +, TSMC Jan. 2020 89-99*
- Stock Management Problem: Adaptive Fixed-Time Convergent Continuous Controller Design. *Basin, M.V.,* +, *TSMC Dec. 2020 4974-4983*
- Tri-Goal Evolution Framework for Constrained Many-Objective Optimization. Zhou, Y, +, TSMC Aug. 2020 3086-3099
- Two-Phase Attractors for Finite-Duration Consensus of Multiagent Systems. Sun, M., TSMC May 2020 1757-1765

## Convergence of numerical methods

- Accelerated Convergence Algorithm for Distributed Constrained Optimization under Time-Varying General Directed Graphs. *Li*, *H.*, +, *TSMC July* 2020 2612-2622
- Balancing Value Iteration and Policy Iteration for Discrete-Time Control. Luo, B., +, TSMC Nov. 2020 3948-3958
- Contraction Mapping-Based Robust Convergence of Iterative Learning Control With Uncertain, Locally Lipschitz Nonlinearity. *Meng, D.*, +, *TSMC Feb. 2020 442-454*
- Model-Free  $H_{\infty}$  Optimal Tracking Control of Constrained Nonlinear Systems via an Iterative Adaptive Learning Algorithm. *Hou, J.*, +, *TSMC Nov.* 2020 4097-4108
- Neuro-Optimal Control for Discrete Stochastic Processes via a Novel Policy Iteration Algorithm. *Liang, M.*, +, *TSMC Nov. 2020 3972-3985*
- Sparse Proximal Reinforcement Learning via Nested Optimization. Song, T., +, TSMC Nov. 2020 4020-4032
- The Spiral Optimization Algorithm: Convergence Conditions and Settings. *Tamura, K.*, +, *TSMC Jan. 2020 360-375*

#### Convex programming

- Accelerated Convergence Algorithm for Distributed Constrained Optimization under Time-Varying General Directed Graphs. *Li*, *H.*, +, *TSMC July* 2020 2612-2622
- An Approximate Distributed Gradient Estimation Method for Networked System Optimization Under Limited Communications. *Wang, J.*, +, *TSMC Dec.* 2020 5142-5151
- Non-Negative Matrix Factorization With Dual Constraints for Image Clustering. Yang, Z., +, TSMC July 2020 2524-2533
- Nonfragile  $l_2 l_{\infty}$  Fault Estimation for Markovian Jump 2-D Systems With Specified Power Bounds. *Luo*, Y., +, *TSMC May 2020 1964-1975*
- One-Class Convex Hull-Based Algorithm for Classification in Distributed Environments. *Fernandez-Francos*, D., +, *TSMC Feb. 2020 386-396*
- Random Gradient-Free Optimization for Multiagent Systems With Communication Noises Under a Time-Varying Weight Balanced Digraph. *Wang*, *D.*, +, *TSMC Jan. 2020 281-289*
- Reliable Control for Two-Dimensional Systems Subject to Extended Dissipativity. *Tao*, J., +, *TSMC July 2020 2760-2765*
- Secure and Efficient Vehicle-to-Grid Energy Trading in Cyber Physical Systems: Integration of Blockchain and Edge Computing. *Zhou, Z.*, +, *TSMC Jan. 2020 43-57*

## **Convolutional neural networks**

- A Full Density Stereo Matching System Based on the Combination of CNNs and Slanted-Planes. *Chen, L.*, +, *TSMC Feb. 2020 397-408*
- Detection of Power Line Insulator Defects Using Aerial Images Analyzed With Convolutional Neural Networks. *Tao, X.*, +, *TSMC April 2020 1486-1498*

## Corporate social responsibility

Optimal CSR and Pricing Decisions With Risk-Averse Providers in a Competitive Shipping System. Zheng, W., +, TSMC Dec. 2020 4959-4973

## **Cost optimal control**

Data-Driven Guaranteed Cost Control Design via Reinforcement Learning for Linear Systems With Parameter Uncertainties. Wu, H., +, TSMC Nov. 2020 4151-4159

## Cost reduction

Analysis of Consensus-Based Economic Dispatch Algorithm Under Time Delays. Zhao, C., +, TSMC Aug. 2020 2978-2988

## Costing

Joint Energy, Maintenance, and Throughput Modeling for Sustainable Manufacturing Systems. Sun, Z., +, TSMC June 2020 2101-2112

## **Covariance analysis**

Stability Analysis of Covariance Intersection-Based Kalman Consensus Filtering for Time-Varying Systems. *Wei, G., +, TSMC Nov. 2020 4611-4622* 

#### **Covariance matrices**

Simultaneous Input and State Estimation for Integrated Motor-Transmission Systems in a Controller Area Network Environment via an Adaptive Unscented Kalman Filter. *Jiang, K.*, +, *TSMC April 2020 1570-1579* 

## Crowdsourcing

BciNet: A Biased Contest-Based Crowdsourcing Incentive Mechanism Through Exploiting Social Networks. Wang, Y, +, TSMC Aug. 2020 2926-2937

## Cryptocurrencies

- Automated Demand Response Framework in ELNs: Decentralized Scheduling and Smart Contract. Yang, X., +, TSMC Jan. 2020 58-72
- Improving Bitcoin Ownership Identification Using Transaction Patterns Analysis. Chang, T., +, TSMC Jan. 2020 9-20
- Secure and Efficient Vehicle-to-Grid Energy Trading in Cyber Physical Systems: Integration of Blockchain and Edge Computing. *Zhou, Z.*, +, *TSMC Jan. 2020 43-57*
- The Anti-Social System Properties: Bitcoin Network Data Analysis. Alqassem, I., +, TSMC Jan. 2020 21-31

Cryptographic protocols

## Cryptography

Guest Editorial Special Issue on Blockchain and Economic Knowledge Automation. Yuan, Y., +, TSMC Jan. 2020 2-8

Observer-Based Synchronization of Chaotic Systems Satisfying Incremental Quadratic Constraints and Its Application in Secure Communication. *Zhao, Y., +, TSMC Dec. 2020 5221-5232* 

- Performance Analysis of the Raft Consensus Algorithm for Private Blockchains. *Huang, D.*, +, *TSMC Jan. 2020 172-181*
- Supervisory Control of Blockchain Networks. Seow, K.T., TSMC Jan. 2020 159-171

## Customer services

The Effect of Bidimensional Power Structure on Supply Chain Decisions and Performance. *Chen*, X., +, *TSMC March 2020 1095-1110* 

# Cyber-physical systems

A2G2V: Automatic Attack Graph Generation and Visualization and Its Applications to Computer and SCADA Networks. *Al Ghazo, A.T.*, +, *TSMC Oct. 2020 3488-3498* 

- Discrete-Event-Based Deterministic Execution Semantics With Timestamps for Industrial Cyber-Physical Systems. *Dai, W.*, +, *TSMC March 2020 851-862*
- Distributed Voltage Regulation for Cyber-Physical Microgrids With Coupling Delays and Slow Switching Topologies. *Lai*, *J.*, +, *TSMC Jan. 2020 100-110*
- Guest Editorial Special Issue on Blockchain and Economic Knowledge Automation. Yuan, Y., +, TSMC Jan. 2020 2-8
- Quantitative Modeling and Analytical Calculation of Anelasticity for a Cyber-Physical System. Gong, H., +, TSMC Nov. 2020 4746-4761
- Resilient Nonlinear Control for Attacked Cyber-Physical Systems. *Pang, Y.*, +, *TSMC June 2020 2129-2138*
- Secure and Efficient Vehicle-to-Grid Energy Trading in Cyber Physical Systems: Integration of Blockchain and Edge Computing. *Zhou, Z.*, +, *TSMC Jan. 2020 43-57*

## Cyrptocurrency

Guest Editorial Special Issue on Blockchain and Economic Knowledge Automation. Yuan, Y., +, TSMC Jan. 2020 2-8

#### D

#### Data acquisition

- A UAV Video Dataset for Mosaicking and Change Detection From Low-Altitude Flights. Avola, D., +, TSMC June 2020 2139-2149
- Data analysis
  - EventiC: A Real-Time Unbiased Event-Based Learning Technique for Complex Systems. Danishvar, M., +, TSMC May 2020 1649-1662
  - Markov Modeling and Analysis of Team Communication. *Martinez Ayala,* D.F., +, TSMC April 2020 1230-1241
  - Predictive Intelligence in Analytics Aggregation of Partial Ordered Subsets. Kolomvatsos, K., +, TSMC April 2020 1417-1428
  - Self-Adaptive Framework for Efficient Stream Data Classification on Storm. Deng, S., +, TSMC Jan. 2020 123-136
  - The Anti-Social System Properties: Bitcoin Network Data Analysis. *Alqassem, I.*, +, *TSMC Jan. 2020 21-31*

## Data envelopment analysis

Integrated Network Design of Agile Resource-Efficient Supply Chains Under Uncertainty. *Dotoli, M.*, +, *TSMC Nov. 2020 4530-4544* 

## Data handling

- Automating the Configuration of MapReduce: A Reinforcement Learning Scheme. Mu, T., +, TSMC Nov. 2020 4183-4196
- Scalable Mining of Contextual Outliers Using Relevant Subspace. Zhang, J., +, TSMC March 2020 988-1002

## Data integrity

- A Dynamic Data Slice Approach to the Vulnerability Analysis of E-Commerce Systems. *Wang, M.*, +, *TSMC Oct. 2020 3598-3612*
- System Reliability Assessment of a Fast Retransmit Through *k* Separate Minimal Paths Under the Latency. *Huang, C.,* +, *TSMC April 2020 1395-1405*

#### Data mining

- Accelerated Two-Stage Particle Swarm Optimization for Clustering Not-Well-Separated Data. Xu, X., +, TSMC Nov. 2020 4212-4223
- Anonymous Privacy Preservation Based on *m*-Signature and Fuzzy Processing for Real-Time Data Release. Le, J., +, TSMC Oct. 2020 3871-3883
- Clustering Based on Supervised Learning of Exemplar Discriminative Information. Duan, L., +, TSMC Dec. 2020 5255-5270
- Dual Implicit Mining-Based Latent Friend Recommendation. Cui, L., +, TSMC May 2020 1663-1678
- EventiC: A Real-Time Unbiased Event-Based Learning Technique for Complex Systems. Danishvar, M., +, TSMC May 2020 1649-1662
- Inferring Implicit Rules by Learning Explicit and Hidden Item Dependency. Wang, S., +, TSMC March 2020 935-946
- Integrating Multisourced Texts in Online Business Intelligence Systems. *Cao*, J., +, *TSMC May 2020 1638-1648*
- Markov Modeling and Analysis of Team Communication. *Martinez Ayala,* D.F., +, TSMC April 2020 1230-1241
- Scalable Mining of Contextual Outliers Using Relevant Subspace. Zhang, J., +, TSMC March 2020 988-1002
- Weighted Outlier Detection of High-Dimensional Categorical Data Using Feature Grouping. Li, J., +, TSMC Nov. 2020 4295-4308
- Data privacy
  - An Anonymous Off-Blockchain Micropayments Scheme for Cryptocurrencies in the Real World. *Zhang, D.*, +, *TSMC Jan. 2020 32-42*
  - Anonymous Privacy Preservation Based on m-Signature and Fuzzy Processing for Real-Time Data Release. Le, J., +, TSMC Oct. 2020 3871-3883
  - Improving Bitcoin Ownership Identification Using Transaction Patterns Analysis. Chang, T., +, TSMC Jan. 2020 9-20
  - Securing Data in Internet of Things (IoT) Using Cryptography and Steganography Techniques. *Khari, M.,* +, *TSMC Jan. 2020 73-80*
  - Supervisory Control of Blockchain Networks. Seow, K.T., TSMC Jan. 2020 159-171
  - The Anti-Social System Properties: Bitcoin Network Data Analysis. Alqassem, I., +, TSMC Jan. 2020 21-31

Securing Data in Internet of Things (IoT) Using Cryptography and Steganography Techniques. *Khari, M., +, TSMC Jan. 2020 73-80* 

#### **Data structures**

- Markov Modeling and Analysis of Team Communication. Martinez Ayala, D.F., +, TSMC April 2020 1230-1241
- Self-Adaptive Framework for Efficient Stream Data Classification on Storm. Deng, S., +, TSMC Jan. 2020 123-136

## Data visualization

A2G2V: Automatic Attack Graph Generation and Visualization and Its Applications to Computer and SCADA Networks. *Al Ghazo, A.T.*, +, *TSMC Oct. 2020 3488-3498* 

#### **DC-DC** power converters

Prescribed Performance Controller Design for DC Converter System With Constant Power Loads in DC Microgrid. Xu, X., +, TSMC Nov. 2020 4339-4348

#### **Decentralized control**

- Adaptive Critic Learning and Experience Replay for Decentralized Event-Triggered Control of Nonlinear Interconnected Systems. *Yang, X.*, +, *TSMC Nov. 2020 4043-4055*
- Adaptive Dynamic Programming for Decentralized Stabilization of Uncertain Nonlinear Large-Scale Systems With Mismatched Interconnections. *Yang, X., +, TSMC Aug, 2020 2870-2882*
- Decentralized Adaptive NN Output-Feedback Fault Compensation Control of Nonlinear Switched Large-Scale Systems With Actuator Dead-Zones. *Ma*, *Z*., +, *TSMC Sept. 2020 3435-3447*
- Fault Detection Approaches for Fuzzy Large-Scale Systems With Unknown Membership Functions. Wang, H., +, TSMC Sept. 2020 3333-3343
- Finite-Time Adaptive Fuzzy Decentralized Control for Nonstrict-Feedback Nonlinear Systems With Output-Constraint. *Li*, *K*., +, *TSMC Dec. 2020* 5271-5284
- Minimum-Learning-Parameters-Based Adaptive Neural Fault Tolerant Control With Its Application to Continuous Stirred Tank Reactor. *Wang, Z.*, +, *TSMC April 2020 1275-1285*
- Nonsmooth Decentralized Stabilization for Interconnected Systems Subject to Strongly Coupled Uncertain Interactions. *Zhang, C.*, +, *TSMC July 2020* 2685-2692
- Reliable Leader-to-Follower Formation Control of Multiagent Systems Under Communication Quantization and Attacks. *Huang, X.*, +, *TSMC Jan. 2020 89-99*

#### Decision diagrams

Modeling and Analyzing Linear Wireless Sensor Networks With Backbone Support. Mo, Y., +, TSMC Oct. 2020 3912-3924

#### **Decision making**

- Maximin<sub>h</sub> Stability in the Graph Model for Conflict Resolution for Bilateral Conflicts. Rego, L.C., +, TSMC Oct. 2020 3760-3769
- A Heuristic Approach for Selecting Best-Subset Including Ranking Within the Subset. Choi, S.H., +, TSMC Oct. 2020 3852-3862
- A New Approach to Coalition Analysis Within the Graph Model. Zhu, Z., +, TSMC June 2020 2231-2241
- A Note on Policy Equilibrium and Generalized Metarationalities for Multiple Decision-Maker Conflicts. *Rego, L.C.*, +, *TSMC Oct. 2020 3757-3759*
- A Probabilistic Linguistic Group Decision-Making Method From a Reliability Perspective Based on Evidential Reasoning. *Ma*, *Z*., +, *TSMC July 2020* 2421-2435
- A Reinforcement Learning Approach to Autonomous Decision Making of Intelligent Vehicles on Highways. Xu, X., +, TSMC Oct. 2020 3884-3897
- A Risk-Based Dynamic Decision-Making Approach for Cybersecurity Protection in Industrial Control Systems. *Qin, Y.*, +, *TSMC Oct. 2020 3863-3870*
- An Innovative Sentiment Analysis to Measure Herd Behavior. Ren, R., +, TSMC Oct. 2020 3841-3851
- An MCDM-Based Multiobjective General Variable Neighborhood Search Approach for Disassembly Line Balancing Problem. *Ren, Y.*, +, *TSMC Oct.* 2020 3770-3783
- Avoiding Critical Members in a Team by Redundant Assignment. Zhu, H., TSMC July 2020 2729-2740
- Context-Aware Decision Support for Anti-Submarine Warfare Mission Planning Within a Dynamic Environment. *Mishra, M.*, +, *TSMC Jan. 2020* 318-335

Criteria Making in Role Negotiation. Zhu, X., +, TSMC Oct. 2020 3731-3740

- Critique of Recent Uncertainty Measures Developed Under the Evidence Theory and Belief Intervals. *Abellan, J.*, +, *TSMC March 2020 1186-1192*
- Data-Driven Analysis for RFID-Enabled Smart Factory: A Case Study. *Feng, J.*, +, *TSMC Jan. 2020 81-88*
- Development, Optimization, and Validation of Unintended Radiated Emissions Processing System for Threat Identification. *Friedel, J.E.*, +, *TSMC June 2020 2208-2219*
- Exploring Trends and Patterns of Popularity Stage Evolution in Social Media. Kong, Q., +, TSMC Oct. 2020 3817-3827
- Guest Editorial Special Issue: Modeling Support to Various Levels of Decision-Making. Olson, D.L., +, TSMC Oct. 2020 3728-3730
- Information Sharing in a Supply Chain With a Coopetitive Contract Manufacturer. Wang, J., +, TSMC May 2020 1777-1793
- Interactive Unawareness in the Graph Model for Conflict Resolution. Rego, L.C., +, TSMC March 2020 829-839
- Multiple-Attribute Group Decision-Making Based on q-Rung Orthopair Fuzzy Power Maclaurin Symmetric Mean Operators. *Liu, P., +, TSMC Oct. 2020 3741-3756*
- Optimal CSR and Pricing Decisions With Risk-Averse Providers in a Competitive Shipping System. *Zheng, W.*, +, *TSMC Dec. 2020 4959-4973*
- Optimal Pricing Decisions of Competing Air-Cargo-Carrier Systems— Impacts of Risk Aversion, Demand, and Cost Uncertainties. *Wen, X.*, +, *TSMC Dec. 2020 4933-4947*
- Predicting the Evolution of Hot Topics: A Solution Based on the Online Opinion Dynamics Model in Social Network. *Jiang, L.*, +, *TSMC Oct.* 2020 3828-3840
- Robot Path Planning Using Analog Circuit Phase Delay. Garvey, S., +, TSMC Oct. 2020 3898-3911
- Toward an Improved Monitoring of Engineering Projects. Xue, R., +, TSMC Oct. 2020 3541-3553

## **Decision support systems**

- A Decision Support Approach to Liquidate a Distressed Debt Network. Liang, L., +, TSMC April 2020 1242-1251
- A Decision Support System for Wind Power Production. *Donida Labati, R.,* +, *TSMC Jan. 2020 290-304*
- Context-Aware Decision Support for Anti-Submarine Warfare Mission Planning Within a Dynamic Environment. *Mishra, M.*, +, *TSMC Jan. 2020* 318-335
- Hybrid Intelligent Decision Support Using a Semiotic Case-Based Reasoning and Self-Organizing Maps. *Martins, D.M.L.*, +, *TSMC March 2020* 863-870

## Delay systems

- Adaptive Fuzzy Fault-Tolerant Tracking Control of Uncertain Nonlinear Time-Varying Delay Systems. Zhai, D., +, TSMC May 2020 1840-1849
- Consensus of Discrete-Time Multiagent Systems With State, Input, and Communication Delays. *Liu*, *Q*., +, *TSMC Nov. 2020 4425-4437*
- Dissipativity Analysis for Singular Time-Delay Systems Via State Decomposition Method. Zhi, Y., +, TSMC Oct. 2020 3936-3942
- Distributed Voltage Regulation for Cyber-Physical Microgrids With Coupling Delays and Slow Switching Topologies. *Lai*, *J.*, +, *TSMC Jan. 2020 100-110*
- H<sub>∞</sub> Tracking Control of Discrete-Time System With Delays via Data-Based Adaptive Dynamic Programming. *Liu*, *Y*, +, *TSMC Nov. 2020 4078-4085*
- Modified Repetitive Control Design for Nonlinear Systems With Time Delay Based on T–S Fuzzy Model. Sakthivel, R., +, TSMC Feb. 2020 646-655
- Synchronization Control for Neutral Stochastic Delay Markov Networks via Single Pinning Impulsive Strategy. *Chen, H.*, +, *TSMC Dec. 2020 5406-5419*

#### **Delay tolerant networks**

A Utility Driven Post Disaster Emergency Resource Allocation System Using DTN. *Basu, S., +, TSMC July 2020 2338-2350* 

Delays

- A Hybrid Proportional Impulsive Plus Integral Robust Control Algorithm for H∞ Stabilization. *Chen, H.*, +, *TSMC Dec. 2020 5211-5220*
- Adaptive Fault-Tolerant Control of Uncertain Switched Nonaffine Nonlinear Systems With Actuator Faults and Time Delays. *Wu, L.*, +, *TSMC Sept.* 2020 3470-3480

- Adaptive Fuzzy Fault-Tolerant Tracking Control of Uncertain Nonlinear Time-Varying Delay Systems. Zhai, D., +, TSMC May 2020 1840-1849
- Adaptive Synchronization of Delayed Memristive Neural Networks With Unknown Parameters. Yang, Z., +, TSMC Feb. 2020 539-549
- Analysis of Consensus-Based Economic Dispatch Algorithm Under Time Delays. Zhao, C., +, TSMC Aug. 2020 2978-2988
- Asynchronous Quasi-Consensus of Heterogeneous Multiagent Systems With Nonuniform Input Delays. Wang, Z., +, TSMC Aug. 2020 2815-2827
- Compensating Delays and Noises in Motion Control of Autonomous Electric Vehicles by Using Deep Learning and Unscented Kalman Predictor. *Li*, *Y*, +, *TSMC Nov. 2020 4326-4338*
- Consensus of Discrete-Time Multiagent Systems With State, Input, and Communication Delays. *Liu*, *Q*., +, *TSMC Nov*. 2020 4425-4437
- Consensus of Lipschitz Nonlinear Multiagent Systems With Input Delay via Observer-Based Truncated Prediction Feedback. *Chu, H.*, +, *TSMC Oct.* 2020 3784-3794
- Consensus of Upper-Triangular Multiagent Systems With Sampled and Delayed Measurements via Output Feedback. *Li, F.*, +, *TSMC Feb. 2020* 600-608
- Consensus Seeking in Multiagent Systems With Markovian Switching Topology Under Aperiodic Sampled Data. *Wang, X.*, +, *TSMC Dec. 2020* 5189-5200
- Data-Based Adaptive Dynamic Programming for a Class of Discrete-Time Systems With Multiple Delays. Zhang, H., +, TSMC Feb. 2020 432-441
- Delay-Hybrid-Dependent Stability for Systems With Large Delays. Sun, X., +, TSMC July 2020 2752-2759
- Design of Resilient Reliable Dissipativity Control for Systems With Actuator Faults and Probabilistic Time-Delay Signals via Sampled-Data Approach. *Manivannan, R.*, +, *TSMC Nov. 2020 4243-4255*
- Dissipativity Analysis for Singular Time-Delay Systems Via State Decomposition Method. Zhi, Y., +, TSMC Oct. 2020 3936-3942
- Distributed Voltage Regulation for Cyber-Physical Microgrids With Coupling Delays and Slow Switching Topologies. *Lai*, *J.*, +, *TSMC Jan. 2020 100-110*
- Dynamic Event-Triggered State Estimation for Discrete-Time Singularly Perturbed Systems With Distributed Time-Delays. *Ma*, *L*., +, *TSMC Sept.* 2020 3258-3268
- Dynamic Output Feedback Asynchronous Control of Networked Markovian Jump Systems. Liu, X., +, TSMC July 2020 2705-2715
- Dynamic Pricing-Based Resilient Strategy Design for Cloud Control System Under Jamming Attack. Yuan, H., +, TSMC Jan. 2020 111-122
- Error State Convergence on Master–Slave Generalized Uncertain Neural Networks Using Robust Nonlinear  $H_{\infty}$  Control Theory. *Chen, H.*, +, *TSMC June 2020 2042-2055*
- Group Consensus for Heterogeneous Multiagent Systems in the Competition Networks With Input Time Delays. Ji, L., +, TSMC Nov. 2020 4655-4663
- Guaranteed Cost Control of Uncertain Networked Control Systems With a Hybrid Communication Scheme. *Zhang, J.*, +, *TSMC Sept. 2020 3126-3135*
- $H_{\infty}$  Tracking Control of Discrete-Time System With Delays via Data-Based Adaptive Dynamic Programming. *Liu*, *Y*., +, *TSMC Nov. 2020 4078-4085*
- Haptic Tele-Driving of Wheeled Mobile Robots Under Nonideal Wheel Rolling, Kinematic Control and Communication Time Delay. *Li*, *W*., +, *TSMC Jan. 2020 336-347*
- Lagrange Exponential Stability of Complex-Valued BAM Neural Networks With Time-Varying Delays. *Zhang, Z.*, +, *TSMC Aug. 2020 3072-3085*
- Leader-Following Consensus for a Class of Nonlinear Strick-Feedback Multiagent Systems With State Time-Delays. *Chen, K.*, +, *TSMC July 2020* 2351-2361
- Multiple Lagrange Stability Under Perturbation for Recurrent Neural Networks With Time-Varying Delays. *Zhang, F.*, +, *TSMC June 2020 2029-*2041
- Neural Network-Based Adaptive Control for Pure-Feedback Stochastic Nonlinear Systems With Time-Varying Delays and Dead-Zone Input. *Li*, *Z*., +, *TSMC Dec. 2020 5317-5329*
- Parameters Variation-Based Synchronization on Derivative Coupled Lur'e Networks. Tang, Z., +, TSMC Dec. 2020 5395-5405

- Perimeter Control of Multiregion Urban Traffic Networks With Time-Varying Delays. *Wan, Y.*, +, *TSMC Aug. 2020 2795-2803*
- Reinforcement Learning Neural Network-Based Adaptive Control for State and Input Time-Delayed Wheeled Mobile Robots. *Li*, *S.*, +, *TSMC Nov.* 2020 4171-4182
- Resilient Nonlinear Control for Attacked Cyber-Physical Systems. *Pang, Y.*, +, *TSMC June 2020 2129-2138*
- Robust *H*<sub>∞</sub> Guaranteed Cost Time-Varying Formation Tracking for High-Order Multiagent Systems With Time-Varying Delays. *Yu, J.*, +, *TSMC April* 2020 1465-1475
- Robust Aircraft Maintenance Routing Problem Using a Turn-Around Time Reduction Approach. *Eltoukhy, A.E.E.*, +, *TSMC Dec. 2020 4919-4932*
- Robust Finite-Horizon Filtering for 2-D Systems With Randomly Varying Sensor Delays. *Wang, F., +, TSMC Jan. 2020 220-232*
- Sampled-Data Consensus for Multiagent Systems With Time Delays and Packet Losses. Xing, M., +, TSMC Jan. 2020 203-210
- Simultaneous Input and State Estimation for Integrated Motor-Transmission Systems in a Controller Area Network Environment via an Adaptive Unscented Kalman Filter. *Jiang, K.*, +, *TSMC April 2020 1570-1579*
- Stability Analysis for Delayed Neural Networks via Some Switching Methods. Li, X., +, TSMC May 2020 1690-1695
- Stability Analysis for Homogeneous Hybrid Systems With Delays. He, Y, +, TSMC Oct. 2020 3554-3561
- Stability and Robust Stability of Stochastic Reaction–Diffusion Neural Networks With Infinite Discrete and Distributed Delays. *Sheng, Y.*, +, *TSMC May 2020 1721-1732*
- Stabilization of Linear Systems With Input Saturation and Large Delay. Li, P., +, TSMC Nov. 2020 4482-4491
- Synchronization Analysis for Stochastic Delayed Multilayer Network With Additive Couplings. *Zhuang*, J., +, *TSMC Nov. 2020 4807-4816*

## Demand side management

An Evaluation and Optimization Methodology for Efficient Power Plant Programs. Han, W., +, TSMC Feb. 2020 707-716

- Automated Demand Response Framework in ELNs: Decentralized Scheduling and Smart Contract. Yang, X., +, TSMC Jan. 2020 58-72
- Optimal Dynamic Pricing for Trading-Off User Utility and Operator Profit in Smart Grid. *Ferdous, J.*, +, *TSMC Feb. 2020 455-467*
- Quantized H<sub>co</sub> Estimator Over Communication Networks for Distributed Generation Units. *Mahmoud*, M.S., +, TSMC March 2020 1134-1146

# Design methodology

Special Issue on Recent Advances in Petri Nets, Automata, and Discrete-Event Hybrid Systems. *Wisniewski, R., +, TSMC Oct. 2020 3484-3487* 

## **Design of experiments**

Intelligent Data-Driven Adaptive Method for Optimizing System Integration Scaling Factors for Touch Panel Lamination Machines. *Tsai, J.*, +, *TSMC April 2020 1300-1309* 

## **Diesel engines**

A Belief Rule-Based Expert System for Fault Diagnosis of Marine Diesel Engines. Xu, X., +, TSMC Feb. 2020 656-672

# **Difference equations**

Robust Finite-Horizon Filtering for 2-D Systems With Randomly Varying Sensor Delays. *Wang, F.*, +, *TSMC Jan. 2020 220-232* 

## **Differential equations**

- Dissipativity Analysis for Singular Time-Delay Systems Via State Decomposition Method. *Zhi*, *Y*, +, *TSMC Oct. 2020 3936-3942*
- Modeling of Room Temperature Dynamics for Efficient Building Energy Management. Rao, D.M.K.K.V., +, TSMC Feb. 2020 717-725
- Sparse Proximal Reinforcement Learning via Nested Optimization. *Song, T.*, +, *TSMC Nov. 2020 4020-4032*

## Differential games

- Adaptive Dynamics Programming for  $H_{\infty}$  Control of Continuous-Time Unknown Nonlinear Systems via Generalized Fuzzy Hyperbolic Models. Su, H., +, TSMC Nov. 2020 3996-4008
- Robust Optimal Control for Disturbed Nonlinear Zero-Sum Differential Games Based on Single NN and Least Squares. *Song, R.*, +, *TSMC Nov.* 2020 4009-4019

#### Differentiation

New Discrete-Time Models of Zeroing Neural Network Solving Systems of Time-Variant Linear and Nonlinear Inequalities. *Shi*, Y., +, *TSMC Feb*. 2020 565-576

#### **Digital signatures**

- An Anonymous Off-Blockchain Micropayments Scheme for Cryptocurrencies in the Real World. *Zhang, D.,* +, *TSMC Jan. 2020 32-42*
- Anonymous Privacy Preservation Based on *m*-Signature and Fuzzy Processing for Real-Time Data Release. Le, J., +, TSMC Oct. 2020 3871-3883

## **Directed graphs**

- Accelerated Convergence Algorithm for Distributed Constrained Optimization under Time-Varying General Directed Graphs. *Li*, *H.*, +, *TSMC July* 2020 2612-2622
- Adaptive Consensus of Multiagent Systems With Unknown High-Frequency Gain Signs Under Directed Graphs. *Wang*, Q., +, *TSMC June 2020 2181-2186*
- Cluster Lag Consensus for Second-Order Multiagent Systems with Nonlinear Dynamics and Switching Topologies. *Wang, Y.*, +, *TSMC June 2020* 2093-2100
- Distributed PI Control for Consensus of Heterogeneous Multiagent Systems Over Directed Graphs. Lv, Y, +, TSMC April 2020 1602-1609
- Expected Convergence Rate to Consensus in Asymmetric Networks: Analysis and Distributed Estimation. *Asadi, M.M.*, +, *TSMC March 2020 972-*987
- Fully Distributed Low-Complexity Control for Nonlinear Strict-Feedback Multiagent Systems With Unknown Dead-Zone Inputs. *Wang, G.*, +, *TSMC Feb. 2020 421-431*
- Necessary and Sufficient Conditions for Leader-Following Bipartite Consensus With Measurement Noise. Ma, C., +, TSMC May 2020 1976-1981
- Random Gradient-Free Optimization for Multiagent Systems With Communication Noises Under a Time-Varying Weight Balanced Digraph. *Wang*, *D.*, +, *TSMC Jan. 2020 281-289*

## Disasters

A Utility Driven Post Disaster Emergency Resource Allocation System Using DTN. *Basu, S.*, +, *TSMC July 2020 2338-2350* 

An Effective Local Search Algorithm for the Multidepot Cumulative Capacitated Vehicle Routing Problem. *Wang, X.*, +, *TSMC Dec. 2020 4948-4958* Discrete event simulation

Adaptive Discrete Event Simulation Systems to Embrace Changes of Requirements Using Event Control Models. *Kwon, S.J.*, +, *TSMC March* 2020 1147-1160

#### Discrete event systems

- An Extended Object Constraint Language for Adaptive Discrete Event Systems With Application to Reconfigurable Wireless Sensor Networks. *Grichi*, H., +, TSMC Oct. 2020 3562-3576
- Control Design for Bounded Partially Controlled TPNs Using Timed Extended Reachability Graphs and MDP. *Lefebvre, D.*, +, *TSMC June* 2020 2273-2283
- Diagnosis of Structural and Temporal Faults for k-Bounded Non-Markovian Stochastic Petri Nets. Lefebvre, D., +, TSMC Sept. 2020 3369-3381
- Discrete-Event-Based Deterministic Execution Semantics With Timestamps for Industrial Cyber-Physical Systems. *Dai, W.*, +, *TSMC March 2020 851-862*
- Exploiting Symmetry of Discrete-Event Systems by Relabeling and Reconfiguration. Jiao, T., +, TSMC June 2020 2056-2067
- Fleet Sizing for Electric Car Sharing Systems in Discrete Event System Frameworks. Fanti, M.P., +, TSMC March 2020 1161-1177
- Liveness Analysis and Deadlock Control for Automated Manufacturing Systems With Multiple Resource Requirements. *Feng, Y.*, +, *TSMC Feb. 2020* 525-538
- On Hierarchical Construction of the State Space of an Automated Manufacturing System Modeled With Petri Nets. *Karoui, O.*, +, *TSMC Oct. 2020* 3613-3627
- On Methodology for the Verification of Reconfigurable Timed Net Condition/Event Systems. *Hafidi, Y.,* +, *TSMC Oct. 2020 3577-3591*

#### Discrete systems

Neuro-Optimal Control for Discrete Stochastic Processes via a Novel Policy Iteration Algorithm. *Liang, M.*, +, *TSMC Nov. 2020 3972-3985* 

- Nonfragile  $l_2 l_{\infty}$  Fault Estimation for Markovian Jump 2-D Systems With Specified Power Bounds. *Luo*, Y., +, *TSMC May 2020 1964-1975*
- Performability Evaluation of Water Distribution Systems During Maintenance Procedures. Carnevali, L., +, TSMC May 2020 1704-1720

#### Discrete time filters

Distributed Event-Triggered H<sub>∞</sub> Filtering for Discrete-Time T–S Fuzzy Systems Over Sensor Networks. *Wang, X.*, +, *TSMC Sept. 2020 3269-3280* 

# Discrete time systems

- $\mathcal{H}_{\infty}$  PID Control With Fading Measurements: The Output-Feedback Case. *Zhao, D.*, +, *TSMC June 2020 2170-2180*
- A Hybrid Proportional Impulsive Plus Integral Robust Control Algorithm for H∞ Stabilization. *Chen, H.*, +, *TSMC Dec. 2020 5211-5220*
- A Theoretical Framework for Stability Regions for Standing Balance of Humanoids Based on Their LIPM Treatment. *Kim, J.H.*, +, *TSMC Nov.* 2020 4569-4586
- Adaptive Dynamics Programming for  $H_{\infty}$  Control of Continuous-Time Unknown Nonlinear Systems via Generalized Fuzzy Hyperbolic Models. Su, H., +, TSMC Nov. 2020 3996-4008
- Adaptive Stabilization of Discrete-Time Nonminimum Phase Systems. *Que*, *H.*, +, *TSMC Aug*. 2020 2828-2833
- An Event-Triggered Approach to Sliding Mode Control of Markovian Jump Lur'e Systems Under Hidden Mode Detections. *Song, J.*, +, *TSMC April* 2020 1514-1525
- Balancing Value Iteration and Policy Iteration for Discrete-Time Control. Luo, B., +, TSMC Nov. 2020 3948-3958
- Consensus of Discrete-Time Multiagent Systems With State, Input, and Communication Delays. *Liu*, *Q*., +, *TSMC Nov. 2020 4425-4437*
- Contraction Mapping-Based Robust Convergence of Iterative Learning Control With Uncertain, Locally Lipschitz Nonlinearity. *Meng, D.*, +, *TSMC Feb.* 2020 442-454
- Data-Based Adaptive Dynamic Programming for a Class of Discrete-Time Systems With Multiple Delays. Zhang, H., +, TSMC Feb. 2020 432-441
- Discrete-Time Neural Network Approach for Tracking Control of Spherical Inverted Pendulum. *Ping, Z.*, +, *TSMC Aug. 2020 2989-2995*
- Dissipative Fuzzy Filtering for Nonlinear Networked Systems With Limited Communication Links. *Chen, Z.*, +, *TSMC March 2020 962-971*
- Dissipative Fuzzy Tracking Control for Nonlinear Networked Systems With Quantization. Li, Z., +, TSMC Dec. 2020 5130-5141
- Dynamic Event-Triggered State Estimation for Discrete-Time Singularly Perturbed Systems With Distributed Time-Delays. *Ma*, *L*., +, *TSMC Sept.* 2020 3258-3268
- Event-Based Security Control for Stochastic Networked Systems Subject to Attacks. Yan, H., +, TSMC Nov. 2020 4643-4654
- Event-Triggered Adaptive Critic Control Design for Discrete-Time Constrained Nonlinear Systems. *Ha*, *M.*, +, *TSMC Sept. 2020 3158-3168*
- Extended Dissipative Filtering for Persistent Dwell-Time Switched Systems With Packet Dropouts. Shen, H., +, TSMC Nov. 2020 4796-4806
- GrHDP Solution for Optimal Consensus Control of Multiagent Discrete-Time Systems. Zhong, X., +, TSMC July 2020 2362-2374
- H<sub>∞</sub> Tracking Control of Discrete-Time System With Delays via Data-Based Adaptive Dynamic Programming. Liu, Y., +, TSMC Nov. 2020 4078-4085
- Invariant Adaptive Dynamic Programming for Discrete-Time Optimal Control. Zhu, Y., +, TSMC Nov. 2020 3959-3971
- Model-Free Distributed Consensus Control Based on Actor–Critic Framework for Discrete-Time Nonlinear Multiagent Systems. *Wang, W.*, +, *TSMC Nov. 2020 4123-4134*
- Model-Free  $H_{\infty}$  Optimal Tracking Control of Constrained Nonlinear Systems via an Iterative Adaptive Learning Algorithm. *Hou, J.*, +, *TSMC Nov.* 2020 4097-4108
- Model-Free Optimal Output Regulation for Linear Discrete-Time Lossy Networked Control Systems. *Fan, J.*, +, *TSMC Nov. 2020 4033-4042*
- Modified Repetitive Control Design for Nonlinear Systems With Time Delay Based on T–S Fuzzy Model. Sakthivel, R., +, TSMC Feb. 2020 646-655
- New Discrete-Time Models of Zeroing Neural Network Solving Systems of Time-Variant Linear and Nonlinear Inequalities. *Shi*, *Y*., +, *TSMC Feb.* 2020 565-576

- Optimal Estimation for Discrete-Time Linear System with Communication Constraints and Measurement Quantization. *Ren, H.*, +, *TSMC May 2020* 1932-1942
- Predictive Control of Networked Nonlinear Multiagent Systems With Communication Constraints. *Liu, G., TSMC Nov. 2020 4447-4457*
- Quantized Control for Networked Switched Systems With a More General Switching Rule. *Li*, *J.*, +, *TSMC May 2020 1909-1917*
- Reducing the Conservatism of Stabilization for Discrete-Time Takagi– Sugeno Fuzzy Systems via a New Extended Representation Approach. *Xie*, *X.*, +, *TSMC Nov. 2020 4387-4393*
- Reinforcement Learning Neural Network-Based Adaptive Control for State and Input Time-Delayed Wheeled Mobile Robots. *Li*, *S.*, +, *TSMC Nov.* 2020 4171-4182
- Reinforcement Q-Learning Algorithm for H<sub>∞</sub> Tracking Control of Unknown Discrete-Time Linear Systems. Peng, Y, +, TSMC Nov. 2020 4109-4122
- Reliable Control for Two-Dimensional Systems Subject to Extended Dissipativity. Tao, J., +, TSMC July 2020 2760-2765
- Resilient Asynchronous H<sub>∞</sub> Control for Discrete-Time Markov Jump Singularly Perturbed Systems Based on Hidden Markov Model. *Li*, *F.*, +, *TSMC Aug. 2020 2860-2869*
- Robust Distributed  $H_{\infty}$  State Estimation for Stochastic Periodic Systems Over Constraint Sensor Networks. *Li*, *J.*, +, *TSMC Nov. 2020* 4396-4407
- Stability and *l*<sub>2</sub> -Gain Analysis of Discrete-Time Switched Systems with Mode-Dependent Average Dwell Time. *Liu*, *L.*, +, *TSMC June 2020 2305-2314*
- Stability, l<sub>2</sub>-Gain Analysis, and Parity Space-Based Fault Detection for Discrete-Time Switched Systems Under Dwell-Time Switching. Sun, T., +, TSMC Sept. 2020 3358-3368
- Value Iteration-Based  $H_{\infty}$  Controller Design for Continuous-Time Nonlinear Systems Subject to Input Constraints. *Zhang, H.*, +, *TSMC Nov. 2020* 3986-3995

## Diseases

Optimal Disintegration Strategy With Heterogeneous Costs in Complex Networks. Deng, Y., +, TSMC Aug. 2020 2905-2913

## Distributed algorithms

- Accelerated Convergence Algorithm for Distributed Constrained Optimization under Time-Varying General Directed Graphs. Li, H., +, TSMC July 2020 2612-2622
- Distributed Nonlinear Semiparametric Support Vector Machine for Big Data Applications on Spark Frameworks. *Diaz-Morales, R.*, +, *TSMC Nov. 2020* 4664-4675

#### **Distributed computing**

Guest Editorial Special Issue on Blockchain and Economic Knowledge Automation. Yuan, Y., +, TSMC Jan. 2020 2-8

#### **Distributed control**

- A Cooperative Distributed Model Predictive Control Approach to Supply Chain Management. *Fu, D.*, +, *TSMC Dec. 2020 4894-4904*
- A Distributed Control Approach to Automated Manufacturing Systems With Complex Routes and Operations Using Petri Nets. *Yang, Y.*, +, *TSMC Oct.* 2020 3670-3684
- A Distributed Control Framework of Multiple Unmanned Aerial Vehicles for Dynamic Wildfire Tracking. *Pham, H.X., +, TSMC April 2020 1537-1548*
- Adaptive Consensus of Multiagent Systems With Unknown High-Frequency Gain Signs Under Directed Graphs. *Wang*, Q., +, *TSMC June 2020 2181-2186*
- An Industrial-Based Framework for Distributed Control of Heterogeneous Network Systems. *Wu, Y.*, +, *TSMC June 2020 2120-2128*
- Cluster Lag Consensus for Second-Order Multiagent Systems with Nonlinear Dynamics and Switching Topologies. *Wang, Y.*, +, *TSMC June 2020* 2093-2100
- Consensus Tracking Control for Distributed Nonlinear Multiagent Systems via Adaptive Neural Backstepping Approach. *Shang, Y*, +, *TSMC July 2020 2436-2444*
- Discrete-Event-Based Deterministic Execution Semantics With Timestamps for Industrial Cyber-Physical Systems. *Dai, W.*, +, *TSMC March 2020 851-*862

- Distributed Adaptive Output Feedback Leader-Following Consensus Control for Nonlinear Multiagent Systems. *Hua, C., +, TSMC Nov. 2020 4309-4317*
- Distributed Consensus of Linear Multiagent Systems: Laplacian Spectra-Based Method. Chen, Y., +, TSMC Feb. 2020 700-706
- Distributed Continuous-Time Optimization With Scalable Adaptive Event-Based Mechanisms. *Wu, Z., +, TSMC Sept. 2020 3252-3257*
- Distributed Fault Detection and Isolation for Multiagent Systems: An Interval Observer Approach. Zhang, Z., +, TSMC June 2020 2220-2230
- Distributed  $H_{\infty}$  Optimal Tracking Control for Strict-Feedback Nonlinear Large-Scale Systems With Disturbances and Saturating Actuators. *Tan, L.N., TSMC Nov. 2020 4719-4731*
- Distributed Observer-Based Consensus Over Directed Networks With Limited Communication Bandwidth Constraints. *Rong, L.*, +, *TSMC Dec. 2020* 5361-5368
- Distributed Optimal Steady-State Regulation for High-Order Multiagent Systems With External Disturbances. *Tang, Y., TSMC Nov. 2020 4828-*4835
- Distributed PI Control for Consensus of Heterogeneous Multiagent Systems Over Directed Graphs. Lv, Y., +, TSMC April 2020 1602-1609
- Distributed Voltage Regulation for Cyber-Physical Microgrids With Coupling Delays and Slow Switching Topologies. *Lai*, *J.*, +, *TSMC Jan. 2020* 100-110
- Dynamic Event-Triggered Control for Leader-Following Consensus of Multiagent Systems. Du, S., +, TSMC Sept. 2020 3243-3251
- Dynamic Event-Triggered Distributed Coordination Control and its Applications: A Survey of Trends and Techniques. *Ge, X.*, +, *TSMC Sept. 2020* 3112-3125
- Event-Based Distributed Tracking Control for Second-Order Multiagent Systems With Switching Networks. *Duan, P., +, TSMC Sept. 2020 3220-3230*
- Event-Based Tracking Control of Mobile Robot With Denial-of-Service Attacks. Tang, Y., +, TSMC Sept. 2020 3300-3310
- Evolutionary Game Dynamics of Multiagent Systems on Multiple Community Networks. Zhang, J., +, TSMC Nov. 2020 4513-4529
- Exponential Finite-Time Consensus of Fractional-Order Multiagent Systems. Liu, H., +, TSMC April 2020 1549-1558
- Formation Control of Multiple Mobile Robots Incorporating an Extended State Observer and Distributed Model Predictive Approach. *Liu, A.*, +, *TSMC Nov. 2020 4587-4597*
- Fully Distributed Low-Complexity Control for Nonlinear Strict-Feedback Multiagent Systems With Unknown Dead-Zone Inputs. *Wang, G.*, +, *TSMC Feb. 2020 421-431*
- GrHDP Solution for Optimal Consensus Control of Multiagent Discrete-Time Systems. Zhong, X., +, TSMC July 2020 2362-2374
- Input-Based Event-Triggering Consensus of Multiagent Systems Under Denial-of-Service Attacks. Xu, Y., +, TSMC April 2020 1455-1464
- Model-Free Distributed Consensus Control Based on Actor–Critic Framework for Discrete-Time Nonlinear Multiagent Systems. *Wang, W.*, +, *TSMC Nov. 2020 4123-4134*
- Observer-Based Consensus of Nonlinear Multiagent Systems With Relative State Estimate Constraints. Chu, H., +, TSMC July 2020 2456-2465
- Performance Improvement of Consensus Tracking for Linear Multiagent Systems With Input Saturation: A Gain Scheduled Approach. *Chu, H.*, +, *TSMC March 2020 734-746*
- Prescribed Performance-Based Consensus of Nonlinear Multiagent Systems With Unknown Control Directions and Switching Networks. *Liu, Y.*, +, *TSMC Feb. 2020 609-616*
- Quantized Consensus of Multiagent Systems by Event-Triggered Control. Ma, J., +, TSMC Sept. 2020 3231-3242
- Reliable Leader-to-Follower Formation Control of Multiagent Systems Under Communication Quantization and Attacks. *Huang, X.*, +, *TSMC Jan. 2020 89-99*
- Robust Bipartite Consensus and Tracking Control of High-Order Multiagent Systems With Matching Uncertainties and Antagonistic Interactions. *Liu*, *M.*, +, *TSMC July 2020 2541-2550*

- Robust Optimal Control for Disturbed Nonlinear Zero-Sum Differential Games Based on Single NN and Least Squares. *Song, R.*, +, *TSMC Nov.* 2020 4009-4019
- Sampled-Data Synchronization of Network Systems in Industrial Manufacture. Wu, Y., +, TSMC Sept. 2020 3210-3219
- The Specified Finite-Time Distributed Observers-Based Velocity-Free Attitude Synchronization for Rigid Bodies on SO(3). *Peng, X.*, +, *TSMC April* 2020 1610-1621

## **Distributed databases**

- Automated Demand Response Framework in ELNs: Decentralized Scheduling and Smart Contract. Yang, X., +, TSMC Jan. 2020 58-72
- Secure and Efficient Vehicle-to-Grid Energy Trading in Cyber Physical Systems: Integration of Blockchain and Edge Computing. *Zhou, Z.*, +, *TSMC Jan. 2020 43-57*

#### **Distributed management**

Special Issue on Event-Triggered Control and Filtering of Distributed Networked Systems. Han, Q., +, TSMC Sept. 2020 3108-3111

## Distributed parameter systems

- Estimator-Based H<sub>∞</sub> Sampled-Data Fuzzy Control for Nonlinear Parabolic PDE Systems. Wang, Z., +, TSMC July 2020 2491-2500
- Parameter Optimization of Reduced Fluid Model via Sparse Point Measurements. Zhou, S., +, TSMC Dec. 2020 5201-5210
- Robust Adaptive Control of an Offshore Ocean Thermal Energy Conversion System. *He*, *X*., +, *TSMC Dec. 2020 5285-5295*

# **Distributed** power generation

- Co-Design of Distributed Model-Based Control and Event-Triggering Scheme for Load Frequency Regulation in Smart Grids. *Liu, S.*, +, *TSMC Sept. 2020 3311-3319*
- Distributed Voltage Regulation for Cyber-Physical Microgrids With Coupling Delays and Slow Switching Topologies. *Lai*, *J.*, +, *TSMC Jan. 2020* 100-110
- Dynamic Event-Triggered Distributed Coordination Control and its Applications: A Survey of Trends and Techniques. Ge, X., +, TSMC Sept. 2020 3112-3125
- Prescribed Performance Controller Design for DC Converter System With Constant Power Loads in DC Microgrid. Xu, X., +, TSMC Nov. 2020 4339-4348

Quantized H<sub>∞</sub> Estimator Over Communication Networks for Distributed Generation Units. *Mahmoud*, M.S., +, TSMC March 2020 1134-1146

## Distributed processing

An Approximate Distributed Gradient Estimation Method for Networked System Optimization Under Limited Communications. *Wang, J.*, +, *TSMC Dec.* 2020 5142-5151

#### Distributed sensors

#### Divide and conquer methods

Collaborative Learning-Based Clustered Support Vector Machine for Modeling of Nonlinear Processes Subject to Noise. *Lu, X.*, +, *TSMC Dec. 2020* 5162-5171

#### Drugs

Context-Aware Dynamic Asset Allocation for Maritime Interdiction Operations. *Sidoti*, D., +, *TSMC March 2020 1055-1073* 

## **Dynamic programming**

- A Switching-Based Adaptive Dynamic Programming Method to Optimal Traffic Signaling. *Liu*, *D.*, +, *TSMC Nov. 2020 4160-4170*
- Adaptive Dynamic Programming for Decentralized Stabilization of Uncertain Nonlinear Large-Scale Systems With Mismatched Interconnections. *Yang, X., +, TSMC Aug. 2020 2870-2882*
- Adaptive Dynamics Programming for  $H_{\infty}$  Control of Continuous-Time Unknown Nonlinear Systems via Generalized Fuzzy Hyperbolic Models. *Su, H.*, +, *TSMC Nov. 2020 3996-4008*
- ADP-Based Robust Tracking Control for a Class of Nonlinear Systems With Unmatched Uncertainties. *Mu, C.*, +, *TSMC Nov. 2020 4056-4067*
- Context-Aware Dynamic Asset Allocation for Maritime Interdiction Operations. Sidoti, D., +, TSMC March 2020 1055-1073
- Data-Based Adaptive Dynamic Programming for a Class of Discrete-Time Systems With Multiple Delays. Zhang, H., +, TSMC Feb. 2020 432-441

- Editorial Special Issue on Adaptive Dynamic Programming and Reinforcement Learning. *Liu*, *D*., +, *TSMC Nov. 2020 3944-3947*
- Energy-Efficient Subway Train Scheduling Design With Time-Dependent Demand Based on an Approximate Dynamic Programming Approach. *Liu*, *R.*, +, *TSMC July 2020 2475-2490*
- Event-Triggered Adaptive Critic Control Design for Discrete-Time Constrained Nonlinear Systems. *Ha*, *M.*, +, *TSMC Sept. 2020 3158-3168*
- Event-Triggered Adaptive Dynamic Programming for Zero-Sum Game of Partially Unknown Continuous-Time Nonlinear Systems. *Xue, S.*, +, *TSMC Sept. 2020 3189-3199*
- Event-Triggered Integral Sliding-Mode Control for Nonlinear Constrained-Input Systems With Disturbances via Adaptive Dynamic Programming. *Yang, D.*, +, *TSMC Nov. 2020 4086-4096*
- GrHDP Solution for Optimal Consensus Control of Multiagent Discrete-Time Systems. Zhong, X., +, TSMC July 2020 2362-2374
- H<sub>∞</sub> Tracking Control of Discrete-Time System With Delays via Data-Based Adaptive Dynamic Programming. *Liu*, Y., +, *TSMC Nov. 2020 4078-4085*
- Invariant Adaptive Dynamic Programming for Discrete-Time Optimal Control. *Zhu, Y.*, +, *TSMC Nov. 2020 3959-3971*
- Model-Free Distributed Consensus Control Based on Actor–Critic Framework for Discrete-Time Nonlinear Multiagent Systems. *Wang, W.*, +, *TSMC Nov. 2020 4123-4134*
- Neuro-Optimal Control for Discrete Stochastic Processes via a Novel Policy Iteration Algorithm. Liang, M., +, TSMC Nov. 2020 3972-3985
- QoS-Aware Service Composition in Cloud Manufacturing: A Gale–Shapley Algorithm-Based Approach. Li, F., +, TSMC July 2020 2386-2397
- Robust Optimal Control Scheme for Unknown Constrained-Input Nonlinear Systems via a Plug-n-Play Event-Sampled Critic-Only Algorithm. *Zhang, H.*, +, *TSMC Sept. 2020 3169-3180*
- Robust Science-Optimal Spacecraft Control for Circular Orbit Missions. Nasir, A., +, TSMC March 2020 923-934
- Value Iteration-Based  $H_{\infty}$  Controller Design for Continuous-Time Nonlinear Systems Subject to Input Constraints. *Zhang, H.*, +, *TSMC Nov. 2020* 3986-3995

Е

Feasibility Study and Conceptual Design of Missile-Borne Synthetic Aperture Radar. Saeedi, J., TSMC March 2020 1122-1133

#### Economic forecasting

- A Clustering-Based Nonlinear Ensemble Approach for Exchange Rates Forecasting. Sun, S., +, TSMC June 2020 2284-2292
- An Innovative Sentiment Analysis to Measure Herd Behavior. Ren, R., +, TSMC Oct. 2020 3841-3851

## Economics

Echo

Toward an Improved Monitoring of Engineering Projects. Xue, R., +, TSMC Oct. 2020 3541-3553

## **Eigenvalues and eigenfunctions**

- An Approach to Design Robust Tracking Controllers for Nonlinear Uncertain Systems. *Celentano, L.,* +, *TSMC Aug. 2020 3010-3023*
- Expected Convergence Rate to Consensus in Asymmetric Networks: Analysis and Distributed Estimation. *Asadi, M.M.*, +, *TSMC March 2020 972-*987

Group Consensus for Heterogeneous Multiagent Systems in the Competition Networks With Input Time Delays. Ji, L., +, TSMC Nov. 2020 4655-4663

Necessary and Sufficient Conditions for Leader-Following Bipartite Consensus With Measurement Noise. Ma, C., +, TSMC May 2020 1976-1981

Stability, l<sub>2</sub>-Gain Analysis, and Parity Space-Based Fault Detection for Discrete-Time Switched Systems Under Dwell-Time Switching. Sun, T., +, TSMC Sept. 2020 3358-3368

#### **Elastic waves**

OpenMRE: A Numerical Platform for MRE Study. Li, B.N., +, TSMC March 2020 1111-1121

#### Elasticity

OpenMRE: A Numerical Platform for MRE Study. Li, B.N., +, TSMC March 2020 1111-1121

Distributed Event-Triggered  $H_{\infty}$  Filtering for Discrete-Time T–S Fuzzy Systems Over Sensor Networks. *Wang*, *X*., +, *TSMC Sept. 2020 3269-3280* 

## **Electric vehicle charging**

Fleet Sizing for Electric Car Sharing Systems in Discrete Event System Frameworks. Fanti, M.P., +, TSMC March 2020 1161-1177

### **Electric vehicles**

- Compensating Delays and Noises in Motion Control of Autonomous Electric Vehicles by Using Deep Learning and Unscented Kalman Predictor. Li, Y., +, TSMC Nov. 2020 4326-4338
- Secure and Efficient Vehicle-to-Grid Energy Trading in Cyber Physical Systems: Integration of Blockchain and Edge Computing. Zhou, Z., +, TSMC Jan. 2020 43-57
- Simultaneous Input and State Estimation for Integrated Motor-Transmission Systems in a Controller Area Network Environment via an Adaptive Unscented Kalman Filter. Jiang, K., +, TSMC April 2020 1570-1579

#### Electricity supply industry

Optimal Dynamic Pricing for Trading-Off User Utility and Operator Profit in Smart Grid. Ferdous, J., +, TSMC Feb. 2020 455-467

#### Electroencephalography

- Brain-Robot Interface-Based Navigation Control of a Mobile Robot in Corridor Environments. Liu, Y., +, TSMC Aug. 2020 3047-3058
- Common Spatial Patterns Based on the Quantized Minimum Error Entropy Criterion. Chen, B., +, TSMC Nov. 2020 4557-4568
- Influence of Time Pressure on Inhibitory Brain Control During Emergency Driving. King, J., +, TSMC Nov. 2020 4408-4414
- Two-Factor Authentication System Using P300 Response to a Sequence of Human Photographs. Kaongoen, N., +, TSMC March 2020 1178-1185

## **Electromagnetic actuators**

A Modeling Method of Electromagnetic Micromirror in Random Noisy Environment. Cao, Q., +, TSMC July 2020 2578-2587

## **Electromagnetic devices**

Mirror Angle Tuning of Electromagnetic Micro-Mirrors With Oscillation Compensation. Dong, R., +, TSMC Aug. 2020 2969-2977

## Electromyography

- Human-Inspired Control of Dual-Arm Exoskeleton Robots With Force and Impedance Adaptation. Li, Z., +, TSMC Dec. 2020 5296-5305
- Muscle Fatigue Induced Hand Tremor Clustering in Dynamic Laparoscopic Manipulation. Chandra, S., +, TSMC Dec. 2020 5420-5431

#### **Electronic commerce**

- A Dynamic Data Slice Approach to the Vulnerability Analysis of E-Commerce Systems. Wang, M., +, TSMC Oct. 2020 3598-3612
- Pricing and Return Strategy: Whether to Adopt a Cross-Channel Return Option?. Yan, S., +, TSMC Dec. 2020 5058-5073

### Electronic money

- An Anonymous Off-Blockchain Micropayments Scheme for Cryptocurrencies in the Real World. Zhang, D., +, TSMC Jan. 2020 32-42
- Supervisory Control of Blockchain Networks. Seow, K.T., TSMC Jan. 2020 159-171

### **Electronic warfare**

Context-Aware Decision Support for Anti-Submarine Warfare Mission Planning Within a Dynamic Environment. Mishra, M., +, TSMC Jan. 2020 318-335

### Embedded systems

Distributed Optimal Steady-State Regulation for High-Order Multiagent Systems With External Disturbances. Tang, Y., TSMC Nov. 2020 4828-4835

## **Emergency management**

- A Utility Driven Post Disaster Emergency Resource Allocation System Using DTN. Basu, S., +, TSMC July 2020 2338-2350
- An Effective Local Search Algorithm for the Multidepot Cumulative Capacitated Vehicle Routing Problem. Wang, X., +, TSMC Dec. 2020 4948-4958
- Refinement-Based Hierarchical Modeling and Correctness Verification of Cross-Organization Collaborative Emergency Response Processes. Duan, H., +, TSMC Aug. 2020 2845-2859
- Resource Conflict Checking and Resolution Controller Design for Cross-Organization Emergency Response Processes. Zeng, Q., +, TSMC Oct. 2020 3685-3700

# **Emergency services**

Modeling and Analysis of Patient Transitions in Community Hospitals: A Systems Approach. Lee, H.K., +, TSMC Feb. 2020 686-699

## **Emotion recognition**

Dynamic Emotion Understanding in Human-Robot Interaction Based on Two-Layer Fuzzy SVR-TS Model. Chen, L., +, TSMC Feb. 2020 490-501 Encoding

Securing Data in Internet of Things (IoT) Using Cryptography and Steganography Techniques. Khari, M., +, TSMC Jan. 2020 73-80

## End effectors

- A New Repetitive Motion Planning Scheme With Noise Suppression Capability for Redundant Robot Manipulators. Li, Z., +, TSMC Dec. 2020 5244-5254
- A Segmented Geometry Method for Kinematics and Configuration Planning of Spatial Hyper-Redundant Manipulators. Mu, Z., +, TSMC May 2020 1746-1756

### **Energy conservation**

An Evaluation and Optimization Methodology for Efficient Power Plant Programs. Han, W., +, TSMC Feb. 2020 707-716

#### **Energy consumption**

- A Three-Stage Multiobjective Approach Based on Decomposition for an Energy-Efficient Hybrid Flow Shop Scheduling Problem. Zhang, B., +, TSMC Dec. 2020 4984-4999
- Joint Energy, Maintenance, and Throughput Modeling for Sustainable Manufacturing Systems. Sun, Z., +, TSMC June 2020 2101-2112

#### **Energy storage**

Automated Demand Response Framework in ELNs: Decentralized Scheduling and Smart Contract. Yang, X., +, TSMC Jan. 2020 58-72

### Entropy

- A Novel Diagonal Class Entropy-Based Multilevel Image Thresholding Using Coral Reef Optimization. Agrawal, S., +, TSMC Nov. 2020 4688-4696
- Common Spatial Patterns Based on the Quantized Minimum Error Entropy Criterion. Chen, B., +, TSMC Nov. 2020 4557-4568
- Critique of Recent Uncertainty Measures Developed Under the Evidence Theory and Belief Intervals. Abellan, J., +, TSMC March 2020 1186-1192 Interpoint Similarity-Based Uncertainty Measure for Robust Learning.
- Wang, Y., +, TSMC Dec. 2020 5386-5394

## **Environmental economics**

Value of Bargaining Contract in a Supply Chain System With Sustainability Investment: An Incentive Analysis. Shi, X., +, TSMC April 2020 1622-1634 **Error analysis** 

Stream-of-Variation (SOV) Theory Applied in Geometric Error Modeling for Six-Axis Motion Platform. Tang, H., +, TSMC March 2020 762-770

## Estimation theory

Adaptive Neural Network Control for a Class of Nonlinear Systems With Unknown Control Direction. Wang, C., +, TSMC Nov. 2020 4708-4718

Robust Distributed H<sub>x</sub> State Estimation for Stochastic Periodic Systems Over Constraint Sensor Networks. Li, J., +, TSMC Nov. 2020 4396-4407

# **Event detection**

Special Issue on Event-Triggered Control and Filtering of Distributed Networked Systems. Han, Q., +, TSMC Sept. 2020 3108-3111

## **Evolutionary computation**

- A Hybrid Multiobjective Memetic Algorithm for Multiobjective Periodic Vehicle Routing Problem With Time Windows. Wang, J., +, TSMC Nov. 2020 4732-4745
- Accelerated Two-Stage Particle Swarm Optimization for Clustering Not-Well-Separated Data. Xu, X., +, TSMC Nov. 2020 4212-4223
- Bi-Objective Optimal Scheduling With Raw Material's Shelf-Life Constraints in Unrelated Parallel Machines Production. Wang, M., +, TSMC Nov. 2020 4598-4610
- Context-Aware Decision Support for Anti-Submarine Warfare Mission Planning Within a Dynamic Environment. Mishra, M., +, TSMC Jan. 2020 318-335
- Control Strategy Based on Model Reduction and Online Intelligent Calculation for Planar n-Link Underactuated Manipulators. Wang, Y., +, TSMC March 2020 1046-1054
- Evolutionary Game Dynamics of Multiagent Systems on Multiple Community Networks. Zhang, J., +, TSMC Nov. 2020 4513-4529

- Finding Multiple Roots of Nonlinear Equation Systems via a Repulsion-Based Adaptive Differential Evolution. *Gong, W.*, +, *TSMC April* 2020 1499-1513
- Multiobjective Differential Evolution With Personal Archive and Biased Self-Adaptive Mutation Selection. *Wang, X.*, +, *TSMC Dec. 2020 5338-5350*
- Solving Nonlinear Equations System With Dynamic Repulsion-Based Evolutionary Algorithms. Liao, Z., +, TSMC April 2020 1590-1601
- Tri-Goal Evolution Framework for Constrained Many-Objective Optimization. Zhou, Y, +, TSMC Aug. 2020 3086-3099

#### **Exchange rates**

A Clustering-Based Nonlinear Ensemble Approach for Exchange Rates Forecasting. Sun, S., +, TSMC June 2020 2284-2292

## **Expectation-maximization algorithms**

Utility-Based Model for Characterizing the Evolution of Social Networks. *Li*, *Y*, +, *TSMC March 2020 1083-1094* 

#### Expert systems

A Belief Rule-Based Expert System for Fault Diagnosis of Marine Diesel Engines. Xu, X., +, TSMC Feb. 2020 656-672

#### Explosives

Development, Optimization, and Validation of Unintended Radiated Emissions Processing System for Threat Identification. *Friedel, J.E.*, +, *TSMC June 2020 2208-2219* 

#### **Exponential distribution**

The Specified Finite-Time Distributed Observers-Based Velocity-Free Attitude Synchronization for Rigid Bodies on SO(3). *Peng, X.*, +, *TSMC April* 2020 1610-1621

F

#### **Face recognition**

Online Heterogeneous Face Recognition Based on Total-Error-Rate Minimization. Jang, S., +, TSMC April 2020 1286-1299

Failure analysis

Supervisory Control of Deadlock-Prone Production Systems With Routing Flexibility and Unreliable Resources. Yue, H., +, TSMC Oct. 2020 3528-3540

#### Fatigue

Muscle Fatigue Induced Hand Tremor Clustering in Dynamic Laparoscopic Manipulation. *Chandra*, S., +, *TSMC Dec.* 2020 5420-5431

#### Fault diagnosis

- A Belief Rule-Based Expert System for Fault Diagnosis of Marine Diesel Engines. Xu, X., +, TSMC Feb. 2020 656-672
- A Neural Adaptive Approach for Active Fault-Tolerant Control Design in UAV. *Abbaspour*, A., +, *TSMC Sept. 2020 3401-3411*
- Adaptive Fault-Tolerant Control of Uncertain Switched Nonaffine Nonlinear Systems With Actuator Faults and Time Delays. *Wu, L.*, +, *TSMC Sept.* 2020 3470-3480
- Adaptive Fault-Tolerant H-Infinity Output Feedback Control for Lead–Wing Close Formation Flight. *Liu*, C., +, *TSMC Aug. 2020 2804-2814*
- Control Performance-Based Fault-Tolerant Control Strategy for Singular Systems. *Liu*, *D.*, +, *TSMC July 2020 2398-2407*
- Detection of Power Line Insulator Defects Using Aerial Images Analyzed With Convolutional Neural Networks. *Tao, X.*, +, *TSMC April 2020 1486-1498*
- Diagnosis of Structural and Temporal Faults for k-Bounded Non-Markovian Stochastic Petri Nets. Lefebvre, D., +, TSMC Sept. 2020 3369-3381
- Diagnosis, Diagnosticability Analysis, and Test Point Design for Multiple Faults Based on Multisignal Modeling and Blind Source Separation. *Lu*, *N.*, +, *TSMC Jan. 2020 137-148*
- Distributed Fault Detection and Isolation for Multiagent Systems: An Interval Observer Approach. *Zhang, Z., +, TSMC June 2020 2220-2230*
- Distributed Fault Estimation for a Class of Nonlinear Multiagent Systems. Liu, X., +, TSMC Sept. 2020 3382-3390
- Event-Driven Guaranteed Cost Control Design for Nonlinear Systems With Actuator Faults via Reinforcement Learning Algorithm. *Zhang, H.*, +, *TSMC Nov. 2020 4135-4150*

- Fault Detection Approaches for Fuzzy Large-Scale Systems With Unknown Membership Functions. *Wang, H., +, TSMC Sept. 2020 3333-3343*
- Guest Editorial Special Issue on Fault Diagnosis and Adaptive Fault-Tolerant Control for Automatic Control Systems. *Kaynak, O.*, +, *TSMC Sept.* 2020 3330-3332
- Modeling and Interpretation of Tidal Turbine Vibration Through Weighted Least Squares Regression. Galloway, G.S., +, TSMC April 2020 1252-1259
- Multidomain Features-Based GA Optimized Artificial Immune System for Bearing Fault Detection. *Abid*, *A.*, +, *TSMC Jan. 2020 348-359*
- Simultaneous Input and State Estimation for Integrated Motor-Transmission Systems in a Controller Area Network Environment via an Adaptive Unscented Kalman Filter. *Jiang, K.*, +, *TSMC April 2020 1570-1579*
- Stability, l<sub>2</sub> -Gain Analysis, and Parity Space-Based Fault Detection for Discrete-Time Switched Systems Under Dwell-Time Switching. Sun, T., +, TSMC Sept. 2020 3358-3368

#### Fault tolerance

- A Neural Adaptive Approach for Active Fault-Tolerant Control Design in UAV. *Abbaspour, A., +, TSMC Sept. 2020 3401-3411*
- Adaptive Fault-Tolerant Compensation Control and Its Application to Nonlinear Suspension Systems. Pan, H., +, TSMC May 2020 1766-1776
- Adaptive Fault-Tolerant Compensation Control for T–S Fuzzy Systems With Mismatched Parameter Uncertainties. *Yan, J.*, +, *TSMC Sept. 2020 3412-3423*
- Adaptive Fault-Tolerant Control of Uncertain Switched Nonaffine Nonlinear Systems With Actuator Faults and Time Delays. *Wu, L.*, +, *TSMC Sept.* 2020 3470-3480
- Barrier Lyapunov Functions-Based Adaptive Fault Tolerant Control for Flexible Hypersonic Flight Vehicles With Full State Constraints. *Yuan, Y.*, +, *TSMC Sept. 2020 3391-3400*
- Delta Operator-Based Model Predictive Control With Fault Compensation for Steer-by-Wire Systems. *Huang, C.*, +, *TSMC June 2020 2257-2272*
- Robust Adaptive Fault-Tolerant Tracking Control for Uncertain Linear Systems With Actuator Failures Based on the Closed-Loop Reference Model. *Xiao, S.*, +, *TSMC Sept. 2020 3448-3455*
- Fault tolerant control
  - A Neural Adaptive Approach for Active Fault-Tolerant Control Design in UAV. *Abbaspour*; A., +, *TSMC Sept. 2020 3401-3411*
  - Adaptive Fault-Tolerant H-Infinity Output Feedback Control for Lead–Wing Close Formation Flight. *Liu*, C., +, *TSMC Aug*. 2020 2804-2814
  - Control Performance-Based Fault-Tolerant Control Strategy for Singular Systems. *Liu*, *D.*, +, *TSMC July 2020 2398-2407*
  - Delta Operator-Based Model Predictive Control With Fault Compensation for Steer-by-Wire Systems. *Huang, C.*, +, *TSMC June 2020 2257-2272*
  - Disturbance-Observer-Based Fault Tolerant Control of High-Speed Trains: A Markovian Jump System Model Approach. *Yao, X.*, +, *TSMC April 2020* 1476-1485
  - Fault-Tolerant Control for Systems With Model Uncertainty and Multiplicative Faults. Zhao, Z., +, TSMC Feb. 2020 514-524
  - Neural Networks-Based Active Fault-Tolerant Control for a Class of Switched Nonlinear Systems With Its Application to RCL Circuit. *Tang*, *L.*, +, *TSMC Nov. 2020 4270-4282*

#### Fault tolerant systems

Guest Editorial Special Issue on Fault Diagnosis and Adaptive Fault-Tolerant Control for Automatic Control Systems. *Kaynak, O.*, +, *TSMC Sept.* 2020 3330-3332

## Feature extraction

- A Novel Weber Local Binary Descriptor for Fingerprint Liveness Detection. Xia, Z., +, TSMC April 2020 1526-1536
- A Review on Intelligence Dehazing and Color Restoration for Underwater Images. Han, M., +, TSMC May 2020 1820-1832
- Common Spatial Patterns Based on the Quantized Minimum Error Entropy Criterion. Chen, B., +, TSMC Nov. 2020 4557-4568
- Detecting Seam-Carved Image by Extreme Learning Machines Using Patch Analysis Method, Jury Voting, and Combinatorial Fusion. *Cheng, H.*, +, *TSMC May 2020 1850-1864*
- Detection of Power Line Insulator Defects Using Aerial Images Analyzed With Convolutional Neural Networks. *Tao, X.*, +, *TSMC April 2020 1486-1498*

- Human Identification Using Selected Features From Finger Geometric Profiles. Bera, A., +, TSMC March 2020 747-761
- Multidomain Features-Based GA Optimized Artificial Immune System for Bearing Fault Detection. *Abid*, A., +, *TSMC Jan. 2020 348-359*
- Online Rail Surface Inspection Utilizing Spatial Consistency and Continuity. Gan, J., +, TSMC July 2020 2741-2751
- Using Stacked Sparse Auto-Encoder and Superpixel CRF for Long-Term Visual Scene Understanding of UGVs. *Qiu, Z.*, +, *TSMC April 2020 1331-1342*
- Zero-Shot Learning Based on Deep Weighted Attribute Prediction. *Wang, X.*, +, *TSMC Aug. 2020 2948-2957*

## Feature selection

- Multidomain Features-Based GA Optimized Artificial Immune System for Bearing Fault Detection. *Abid*, *A.*, +, *TSMC Jan. 2020 348-359*
- Sparse Proximal Reinforcement Learning via Nested Optimization. Song, T., +, TSMC Nov. 2020 4020-4032
- Toward Hand-Dominated Activity Recognition Systems With Wristband-Interaction Behavior Analysis. Shen, C., +, TSMC July 2020 2501-2511

### Feedback

- $\mathcal{H}_{\infty}$  PID Control With Fading Measurements: The Output-Feedback Case. *Zhao, D.,* +, *TSMC June 2020 2170-2180*
- A Hybrid Proportional Impulsive Plus Integral Robust Control Algorithm for H∞ Stabilization. *Chen, H.*, +, *TSMC Dec. 2020 5211-5220*
- Adaptive Fault-Tolerant Compensation Control and Its Application to Nonlinear Suspension Systems. Pan, H., +, TSMC May 2020 1766-1776
- Adaptive Fault-Tolerant H-Infinity Output Feedback Control for Lead–Wing Close Formation Flight. *Liu*, *C*., +, *TSMC Aug. 2020 2804-2814*
- Adaptive Fuzzy Tracking Control for a Class of Nonstrict-Feedback Stochastic Nonlinear Systems With Actuator Faults. *Su, H.*, +, *TSMC Sept.* 2020 3456-3469
- Consensus of Upper-Triangular Multiagent Systems With Sampled and Delayed Measurements via Output Feedback. *Li, F.,* +, *TSMC Feb. 2020* 600-608
- Consensus Tracking Control for Distributed Nonlinear Multiagent Systems via Adaptive Neural Backstepping Approach. *Shang, Y*, +, *TSMC July 2020 2436-2444*
- Data-Based Adaptive Dynamic Programming for a Class of Discrete-Time Systems With Multiple Delays. Zhang, H., +, TSMC Feb. 2020 432-441
- Decentralized Adaptive NN Output-Feedback Fault Compensation Control of Nonlinear Switched Large-Scale Systems With Actuator Dead-Zones. *Ma*, *Z*., +, *TSMC Sept. 2020 3435-3447*
- Dissipative Fuzzy Tracking Control for Nonlinear Networked Systems With Quantization. Li, Z., +, TSMC Dec. 2020 5130-5141
- Dissipativity for Switched LPV Systems and Its Application: A Parameter and Dwell Time-Dependent Multiple Storage Functions Method. *Yang, D.*, +, *TSMC Feb. 2020 502-513*
- Distributed Adaptive Output Feedback Leader-Following Consensus Control for Nonlinear Multiagent Systems. *Hua, C., +, TSMC Nov. 2020 4309-4317*
- Distributed Fault Detection and Isolation for Multiagent Systems: An Interval Observer Approach. Zhang, Z., +, TSMC June 2020 2220-2230
- Distributed  $H_{\infty}$  Optimal Tracking Control for Strict-Feedback Nonlinear Large-Scale Systems With Disturbances and Saturating Actuators. *Tan, L.N., TSMC Nov. 2020 4719-4731*
- Distributed Voltage Regulation for Cyber-Physical Microgrids With Coupling Delays and Slow Switching Topologies. *Lai*, *J.*, +, *TSMC Jan. 2020 100-110*
- Disturbance Rejection of Nonlinear Boiler–Turbine Unit Using High-Order Sliding Mode Observer. Su, Z., +, TSMC Dec. 2020 5432-5443
- Dynamic Output Feedback Asynchronous Control of Networked Markovian Jump Systems. Liu, X., +, TSMC July 2020 2705-2715
- Error-Driven Nonlinear Feedback Design for Fuzzy Adaptive Dynamic Surface Control of Nonlinear Systems With Prescribed Tracking Performance. *Dong, H.*, +, *TSMC March 2020 1013-1023*
- Event-Based Security Control for Stochastic Networked Systems Subject to Attacks. Yan, H., +, TSMC Nov. 2020 4643-4654

- Event-Triggered Adaptive Output Regulation for a Class of Nonlinear Systems With Unknown Control Direction. *Lei, Y.*, +, *TSMC Sept. 2020 3181-3188*
- Finite-Time Adaptive Fuzzy Decentralized Control for Nonstrict-Feedback Nonlinear Systems With Output-Constraint. *Li*, *K*., +, *TSMC Dec. 2020* 5271-5284
- Fuzzy Adaptive Output Feedback Control for MIMO Switched Nontriangular Structure Nonlinear Systems With Unknown Control Directions. *Huang, L.*, +, *TSMC Feb. 2020 550-564*
- Fuzzy Adaptive Quantized Fault-Tolerant Control of Strict-Feedback Nonlinear Systems With Mismatched External Disturbances. *Jing, Y.*, +, *TSMC Sept. 2020 3424-3434*
- Guaranteed Cost Control of Uncertain Networked Control Systems With a Hybrid Communication Scheme. *Zhang, J.*, +, *TSMC Sept. 2020 3126-3135*
- Image Dynamics-Based Visual Servoing for Quadrotors Tracking a Target With a Nonlinear Trajectory Observer. *Cao, Z.*, +, *TSMC Jan. 2020 376-384*
- Leader-Following Consensus for a Class of Nonlinear Strick-Feedback Multiagent Systems With State Time-Delays. *Chen, K.*, +, *TSMC July 2020* 2351-2361
- Minimum-Learning-Parameters-Based Adaptive Neural Fault Tolerant Control With Its Application to Continuous Stirred Tank Reactor. *Wang, Z.*, +, *TSMC April 2020 1275-1285*
- Model-Free Optimal Output Regulation for Linear Discrete-Time Lossy Networked Control Systems. Fan, J., +, TSMC Nov. 2020 4033-4042
- Multirobot Object Transport via Robust Caging. Wan, W., +, TSMC Jan. 2020 270-280
- Neural Network-Based Adaptive Control for Pure-Feedback Stochastic Nonlinear Systems With Time-Varying Delays and Dead-Zone Input. *Li*, *Z*., +, *TSMC Dec. 2020 5317-5329*
- Nonsmooth Decentralized Stabilization for Interconnected Systems Subject to Strongly Coupled Uncertain Interactions. *Zhang, C.*, +, *TSMC July 2020* 2685-2692
- Observer-Based Adaptive Finite-Time Quantized Tracking Control of Nonstrict-Feedback Nonlinear Systems With Asymmetric Actuator Saturation. *Yu, Z.*, +, *TSMC Nov. 2020 4545-4556*
- On the Solvability of Feedback Complete Linearization of Nonlinear Stochastic Systems. *Beheshtipour, Z., +, TSMC March 2020 1074-1082*
- Optimal Setting and Control for Iron Removal Process Based on Adaptive Neural Network Soft-Sensor. *Xie, S.*, +, *TSMC July 2020 2408-2420*
- Partial State Constraints-Based Control for Nonlinear Systems With Backlash-Like Hysteresis. *Liu*, *L.*, +, *TSMC Aug. 2020 3100-3104*
- Performance Improvement of Consensus Tracking for Linear Multiagent Systems With Input Saturation: A Gain Scheduled Approach. *Chu, H.*, +, *TSMC March 2020 734-746*
- Prescribed Performance Controller Design for DC Converter System With Constant Power Loads in DC Microgrid. *Xu*, *X*., +, *TSMC Nov. 2020 4339-4348*
- Prescribed Performance Tracking Control of a Class of Uncertain Pure-Feedback Nonlinear Systems With Input Saturation. *Yang, Y.*, +, *TSMC May* 2020 1733-1745
- Quantized Control for Networked Switched Systems With a More General Switching Rule. *Li*, *J.*, +, *TSMC May 2020 1909-1917*
- Realization of Exact Tracking Control for Nonlinear Systems via a Nonrecursive Dynamic Design. Zhang, C., +, TSMC Feb. 2020 577-589
- Reliable Leader-to-Follower Formation Control of Multiagent Systems Under Communication Quantization and Attacks. *Huang, X.*, +, *TSMC Jan. 2020 89-99*
- Resilient Asynchronous  $H_{\infty}$  Control for Discrete-Time Markov Jump Singularly Perturbed Systems Based on Hidden Markov Model. *Li*, *F.*, +, *TSMC Aug. 2020 2860-2869*
- Robust Hybrid Nonlinear Control Systems for the Dynamics of a Quadcopter Drone. Santoso, F., +, TSMC Aug. 2020 3059-3071
- Robust Tube-Based Model Predictive Control for Lane Change Maneuver of Tractor-Trailer Vehicles Based on a Polynomial Trajectory. Yue, M., +, TSMC Dec. 2020 5180-5188

Sampled-Data Synchronization of Network Systems in Industrial Manufacture. Wu, Y., +, TSMC Sept. 2020 3210-3219

Self-Triggered and Event-Triggered Control for Linear Systems With Quantization. Zhou, T., +, TSMC Sept. 2020 3136-3144

Self-Triggered State-Feedback Control for Stochastic Nonlinear Systems With Markovian Switching. Xie, W., +, TSMC Sept. 2020 3200-3209

Structural Sparsity in Networked Control Systems. Florez, A.J., +, TSMC Dec. 2020 5152-5161

Switching Adaptive Controller for the Nonlinear Systems With Uncertain-

ties From Unknown Powers. *Wang, M.*, +, *TSMC July 2020 2375-2385* Feedforward

- Distributed  $H_{\infty}$  Optimal Tracking Control for Strict-Feedback Nonlinear Large-Scale Systems With Disturbances and Saturating Actuators. *Tan, L.N., TSMC Nov. 2020 4719-4731*
- Formation Control of Multiple Mobile Robots Incorporating an Extended State Observer and Distributed Model Predictive Approach. *Liu, A.*, +, *TSMC Nov. 2020 4587-4597*
- Laser Beam Pointing Control With Piezoelectric Actuator Model Learning. *Qin, F.*, +, *TSMC March 2020 1024-1034*
- Mirror Angle Tuning of Electromagnetic Micro-Mirrors With Oscillation Compensation. Dong, R., +, TSMC Aug. 2020 2969-2977

Optimal Setting and Control for Iron Removal Process Based on Adaptive Neural Network Soft-Sensor. *Xie, S.*, +, *TSMC July 2020 2408-2420* 

Prescribed Performance Controller Design for DC Converter System With Constant Power Loads in DC Microgrid. *Xu*, *X*., +, *TSMC Nov. 2020 4339-4348* 

Robust Hybrid Nonlinear Control Systems for the Dynamics of a Quadcopter Drone. Santoso, F., +, TSMC Aug. 2020 3059-3071

## Feedforward neural networks

Online Heterogeneous Face Recognition Based on Total-Error-Rate Minimization. Jang, S., +, TSMC April 2020 1286-1299

#### Femtocellular radio

A Robust Game-Based Algorithm for Downlink Joint Resource Allocation in Hierarchical OFDMA Femtocell Network System. Yu, J., +, TSMC July 2020 2445-2455

## **Filtering theory**

An Approach to Design Robust Tracking Controllers for Nonlinear Uncertain Systems. *Celentano, L., +, TSMC Aug. 2020 3010-3023* 

Distributed Event-Triggered  $H_{\infty}$  Filtering for Discrete-Time T–S Fuzzy Systems Over Sensor Networks. *Wang, X.*, +, *TSMC Sept. 2020 3269-3280* 

Estimation for a Class of Parameter-Controlled Tunnel Diode Circuits. *Chang, X.*, +, *TSMC Nov. 2020 4697-4707* 

- Extended Dissipative Filtering for Persistent Dwell-Time Switched Systems With Packet Dropouts. Shen, H., +, TSMC Nov. 2020 4796-4806
- Filtering Design for Multirate Sampled-Data Systems. Li, Z., +, TSMC Nov. 2020 4224-4232
- Nonfragile *l*<sub>2</sub> –*l*<sub>∞</sub> Fault Estimation for Markovian Jump 2-D Systems With Specified Power Bounds. *Luo*, *Y*, +, *TSMC May 2020 1964-1975*

Robust Finite-Horizon Filtering for 2-D Systems With Randomly Varying Sensor Delays. *Wang, F., +, TSMC Jan. 2020 220-232* 

## Financial data processing

- A Clustering-Based Nonlinear Ensemble Approach for Exchange Rates Forecasting. Sun, S., +, TSMC June 2020 2284-2292
- A Decision Support Approach to Liquidate a Distressed Debt Network. Liang, L., +, TSMC April 2020 1242-1251
- Improving Bitcoin Ownership Identification Using Transaction Patterns Analysis. Chang, T., +, TSMC Jan. 2020 9-20
- Supervisory Control of Blockchain Networks. Seow, K.T., TSMC Jan. 2020 159-171

The Anti-Social System Properties: Bitcoin Network Data Analysis. *Alqassem, I.*, +, *TSMC Jan. 2020 21-31* 

## Financial management

A Decision Support Approach to Liquidate a Distressed Debt Network. Liang, L., +, TSMC April 2020 1242-1251

The Anti-Social System Properties: Bitcoin Network Data Analysis. Alqassem, I., +, TSMC Jan. 2020 21-31

#### Fingerprint identification

- A Novel Weber Local Binary Descriptor for Fingerprint Liveness Detection. *Xia*, *Z.*, +, *TSMC April 2020 1526-1536*
- Human Identification Using Selected Features From Finger Geometric Profiles. Bera, A., +, TSMC March 2020 747-761

Indoor Crowd Density Estimation Through Mobile Smartphone Wi-Fi Probes. *Tang, X.*, +, *TSMC July 2020 2638-2649* 

#### Finite state machines

A Polynomial-Time Algorithm to Obtain State Machine Cover of Live and Safe Petri Nets. *Karatkevich, A.G., +, TSMC Oct. 2020 3592-3597* 

## Flaw detection

Online Rail Surface Inspection Utilizing Spatial Consistency and Continuity. Gan, J., +, TSMC July 2020 2741-2751

## Flexible manipulators

- A Segmented Geometry Method for Kinematics and Configuration Planning of Spatial Hyper-Redundant Manipulators. *Mu*, Z., +, *TSMC May 2020* 1746-1756
- Distributed Fault Estimation for a Class of Nonlinear Multiagent Systems. Liu, X., +, TSMC Sept. 2020 3382-3390

#### Flexible manufacturing systems

Deadlock-Free Scheduling of Flexible Assembly Systems Based on Petri Nets and Local Search. *Luo*, *J.*, +, *TSMC Oct. 2020 3658-3669* 

## Flow shop scheduling

- A Knowledge-Based Cooperative Algorithm for Energy-Efficient Scheduling of Distributed Flow-Shop. *Wang, J.*, +, *TSMC May 2020 1805-1819*
- A Three-Stage Multiobjective Approach Based on Decomposition for an Energy-Efficient Hybrid Flow Shop Scheduling Problem. *Zhang, B.*, +, *TSMC Dec. 2020 4984-4999*
- Scheduling Dual-Objective Stochastic Hybrid Flow Shop With Deteriorating Jobs via Bi-Population Evolutionary Algorithm. Fu, Y, +, TSMC Dec. 2020 5037-5048

#### Force control

Multirobot Object Transport via Robust Caging. Wan, W., +, TSMC Jan. 2020 270-280

#### Force feedback

Haptic Tele-Driving of Wheeled Mobile Robots Under Nonideal Wheel Rolling, Kinematic Control and Communication Time Delay. *Li*, *W.*, +, *TSMC Jan. 2020 336-347* 

## Force sensors

- A Robust Adaptive Model Reference Impedance Control of a Robotic Manipulator With Actuator Saturation. *Arefinia, E.*, +, *TSMC Feb. 2020* 409-420
- Haptic Tele-Driving of Wheeled Mobile Robots Under Nonideal Wheel Rolling, Kinematic Control and Communication Time Delay. *Li, W.*, +, *TSMC Jan. 2020 336-347*

#### Forecasting theory

- A Clustering-Based Nonlinear Ensemble Approach for Exchange Rates Forecasting. Sun, S., +, TSMC June 2020 2284-2292
- Online Forecasting of Synchronous Time Series Based on Evolving Linear Models. Jahandari, S., +, TSMC May 2020 1865-1876

## Formal specification

An Extended Object Constraint Language for Adaptive Discrete Event Systems With Application to Reconfigurable Wireless Sensor Networks. *Grichi*, H., +, TSMC Oct. 2020 3562-3576

## Formal verification

- A Dynamic Data Slice Approach to the Vulnerability Analysis of E-Commerce Systems. *Wang, M.*, +, *TSMC Oct. 2020 3598-3612*
- A2G2V: Automatic Attack Graph Generation and Visualization and Its Applications to Computer and SCADA Networks. *Al Ghazo, A.T.*, +, *TSMC Oct. 2020 3488-3498*
- On Methodology for the Verification of Reconfigurable Timed Net Condition/Event Systems. *Hafidi, Y.*, +, *TSMC Oct. 2020 3577-3591*
- Refinement-Based Hierarchical Modeling and Correctness Verification of Cross-Organization Collaborative Emergency Response Processes. *Duan*, *H.*, +, *TSMC Aug. 2020 2845-2859*

### **Frequency control**

Co-Design of Distributed Model-Based Control and Event-Triggering Scheme for Load Frequency Regulation in Smart Grids. *Liu, S.*, +, *TSMC Sept. 2020 3311-3319* 

#### Frequency division multiple access

A Robust Game-Based Algorithm for Downlink Joint Resource Allocation in Hierarchical OFDMA Femtocell Network System. Yu, J., +, TSMC July 2020 2445-2455

## **Frequency-domain analysis**

- Distributed Consensus of Linear Multiagent Systems: Laplacian Spectra-Based Method. Chen, Y, +, TSMC Feb. 2020 700-706
- Group Consensus for Heterogeneous Multiagent Systems in the Competition Networks With Input Time Delays. Ji, L., +, TSMC Nov. 2020 4655-4663
- Muscle Fatigue Induced Hand Tremor Clustering in Dynamic Laparoscopic Manipulation. *Chandra, S.*, +, *TSMC Dec. 2020 5420-5431*
- Toward Hand-Dominated Activity Recognition Systems With Wristband-Interaction Behavior Analysis. *Shen, C.*, +, *TSMC July 2020 2501-2511*

# Function approximation

A Reinforcement Learning Approach to Autonomous Decision Making of Intelligent Vehicles on Highways. Xu, X., +, TSMC Oct. 2020 3884-3897

Balancing Value Iteration and Policy Iteration for Discrete-Time Control. Luo, B., +, TSMC Nov. 2020 3948-3958

- Distributed  $H_{\infty}$  Optimal Tracking Control for Strict-Feedback Nonlinear Large-Scale Systems With Disturbances and Saturating Actuators. *Tan, L.N., TSMC Nov. 2020 4719-4731*
- Reinforcement Q-Learning Algorithm for H<sub>∞</sub> Tracking Control of Unknown Discrete-Time Linear Systems. *Peng, Y.*, +, *TSMC Nov. 2020 4109-4122*
- Sparse Proximal Reinforcement Learning via Nested Optimization. Song, T., +, TSMC Nov. 2020 4020-4032

## **Functional equations**

Discrete-Time Neural Network Approach for Tracking Control of Spherical Inverted Pendulum. *Ping*, Z., +, *TSMC Aug. 2020 2989-2995* 

## Furnaces

Improved Constrained Model Predictive Tracking Control for Networked Coke Furnace Systems Over Uncertainty and Communication Loss. *Jin*, Q., +, *TSMC May 2020 1877-1884* 

#### **Fuzzy control**

- Adaptive Backstepping Hybrid Fuzzy Sliding Mode Control for Uncertain Fractional-Order Nonlinear Systems Based on Finite-Time Scheme. *Song*, *S.*, +, *TSMC April 2020 1559-1569*
- Adaptive Dynamics Programming for  $H_{\infty}$  Control of Continuous-Time Unknown Nonlinear Systems via Generalized Fuzzy Hyperbolic Models. Su, H., +, TSMC Nov. 2020 3996-4008
- Adaptive Fault-Tolerant Compensation Control for T–S Fuzzy Systems With Mismatched Parameter Uncertainties. *Yan, J.*, +, *TSMC Sept. 2020 3412-3423*
- Adaptive Fault-Tolerant Control of Uncertain Switched Nonaffine Nonlinear Systems With Actuator Faults and Time Delays. *Wu, L.*, +, *TSMC Sept.* 2020 3470-3480
- Adaptive Fuzzy Fault-Tolerant Tracking Control of Uncertain Nonlinear Time-Varying Delay Systems. Zhai, D., +, TSMC May 2020 1840-1849
- Adaptive Fuzzy Tracking Control for a Class of Nonstrict-Feedback Stochastic Nonlinear Systems With Actuator Faults. Su, H., +, TSMC Sept. 2020 3456-3469
- Adaptive Fuzzy Tracking Control of Nonlinear Switched Stochastic Systems With Prescribed Performance and Unknown Control Directions. *Liu*, Y, +, *TSMC Feb. 2020 590-599*
- Dissipative Fuzzy Filtering for Nonlinear Networked Systems With Limited Communication Links. Chen, Z., +, TSMC March 2020 962-971
- Dissipative Fuzzy Tracking Control for Nonlinear Networked Systems With Quantization. Li, Z., +, TSMC Dec. 2020 5130-5141
- Error-Driven Nonlinear Feedback Design for Fuzzy Adaptive Dynamic Surface Control of Nonlinear Systems With Prescribed Tracking Performance. *Dong, H.*, +, *TSMC March 2020 1013-1023*
- Estimation for a Class of Parameter-Controlled Tunnel Diode Circuits. Chang, X., +, TSMC Nov. 2020 4697-4707
- Estimator-Based H<sub>∞</sub> Sampled-Data Fuzzy Control for Nonlinear Parabolic PDE Systems. Wang, Z., +, TSMC July 2020 2491-2500

- Finite-Time  $\mathcal{H}_{\infty}$  Controller Synthesis of T–S Fuzzy Systems. *Li*, *Y*, +, *TSMC May 2020 1956-1963*
- Finite-Time Adaptive Fuzzy Decentralized Control for Nonstrict-Feedback Nonlinear Systems With Output-Constraint. *Li*, *K*., +, *TSMC Dec. 2020* 5271-5284
- Fuzzy Adaptive Output Feedback Control for MIMO Switched Nontriangular Structure Nonlinear Systems With Unknown Control Directions. *Huang, L.*, +, *TSMC Feb. 2020 550-564*
- Fuzzy Adaptive Quantized Fault-Tolerant Control of Strict-Feedback Nonlinear Systems With Mismatched External Disturbances. *Jing, Y.*, +, *TSMC Sept. 2020 3424-3434*
- Interval Observers Design for Polynomial Fuzzy Singular Systems by Utilizing Sum-of-Squares Program. Pang, B., +, TSMC June 2020 1999-2006
- Modified Repetitive Control Design for Nonlinear Systems With Time Delay Based on T–S Fuzzy Model. *Sakthivel, R.*, +, *TSMC Feb. 2020 646-655*
- Observer-Based Adaptive Sliding Mode Control for T–S Fuzzy Singular Systems. Sun, X., +, TSMC Nov. 2020 4438-4446
- Quantized H<sub>∞</sub> Estimator Over Communication Networks for Distributed Generation Units. *Mahmoud*, M.S., +, TSMC March 2020 1134-1146
- Reducing the Conservatism of Stabilization for Discrete-Time Takagi– Sugeno Fuzzy Systems via a New Extended Representation Approach. *Xie*, *X.*, +, *TSMC Nov. 2020 4387-4393*
- Robust Adaptive Fuzzy Tracking Control for Uncertain MIMO Nonlinear Nonminimum Phase System. *Hu*, *X*., +, *TSMC June 2020 2017-2028*
- Robust Hybrid Nonlinear Control Systems for the Dynamics of a Quadcopter Drone. Santoso, F., +, TSMC Aug. 2020 3059-3071
- Stability Analysis of T–S Fuzzy Control System With Sampled-Dropouts Based on Time-Varying Lyapunov Function Method. *Wang, Z.*, +, *TSMC July 2020 2566-2577*
- TS Fuzzy Model-Based Controller Design for a Class of Nonlinear Systems Including Nonsmooth Functions. *Vafamand, N.*, +, *TSMC Jan. 2020 233-*244

#### Fuzzy logic

- Adaptive Fuzzy Fault-Tolerant Tracking Control of Uncertain Nonlinear Time-Varying Delay Systems. Zhai, D., +, TSMC May 2020 1840-1849
- Optimal Setting and Control for Iron Removal Process Based on Adaptive Neural Network Soft-Sensor. *Xie, S.*, +, *TSMC July 2020 2408-2420*

## Fuzzy reasoning

Color Filter Polishing Optimization Using ANFIS With Sliding-Level Particle Swarm Optimizer. *Tsai*, J., +, *TSMC March 2020 1193-1207* 

## Fuzzy set theory

- A Probabilistic Linguistic Group Decision-Making Method From a Reliability Perspective Based on Evidential Reasoning. *Ma*, *Z*., +, *TSMC July 2020* 2421-2435
- Adaptive Dynamics Programming for  $H_{\infty}$  Control of Continuous-Time Unknown Nonlinear Systems via Generalized Fuzzy Hyperbolic Models. *Su, H.*, +, *TSMC Nov. 2020 3996-4008*
- An Evaluation and Optimization Methodology for Efficient Power Plant Programs. Han, W., +, TSMC Feb. 2020 707-716
- An MCDM-Based Multiobjective General Variable Neighborhood Search Approach for Disassembly Line Balancing Problem. *Ren, Y.*, +, *TSMC Oct.* 2020 3770-3783
- Anonymous Privacy Preservation Based on m-Signature and Fuzzy Processing for Real-Time Data Release. Le, J., +, TSMC Oct. 2020 3871-3883
- Critique of Recent Uncertainty Measures Developed Under the Evidence Theory and Belief Intervals. *Abellan, J.*, +, *TSMC March 2020 1186-1192*
- Data-Driven Fuzzy Modeling Using Restricted Boltzmann Machines and Probability Theory. *de la Rosa, E., +, TSMC July 2020 2316-2326*
- Dynamic Emotion Understanding in Human–Robot Interaction Based on Two-Layer Fuzzy SVR-TS Model. Chen, L., +, TSMC Feb. 2020 490-501
- Estimation for a Class of Parameter-Controlled Tunnel Diode Circuits. Chang, X., +, TSMC Nov. 2020 4697-4707
- Integrated Network Design of Agile Resource-Efficient Supply Chains Under Uncertainty. *Dotoli, M.*, +, *TSMC Nov. 2020 4530-4544*
- Model-Based Monitoring and Adaptation of Pacemaker Behavior Using Hierarchical Fuzzy Colored Petri-Nets. *Majma, N.*, +, *TSMC Sept. 2020* 3344-3357

- Multiple-Attribute Group Decision-Making Based on q-Rung Orthopair Fuzzy Power Maclaurin Symmetric Mean Operators. *Liu*, P., +, *TSMC* Oct. 2020 3741-3756
- Observer-Based Adaptive Finite-Time Quantized Tracking Control of Nonstrict-Feedback Nonlinear Systems With Asymmetric Actuator Saturation. *Yu, Z.*, +, *TSMC Nov. 2020 4545-4556*
- Online Forecasting of Synchronous Time Series Based on Evolving Linear Models. Jahandari, S., +, TSMC May 2020 1865-1876
- Reducing the Conservatism of Stabilization for Discrete-Time Takagi– Sugeno Fuzzy Systems via a New Extended Representation Approach. *Xie*, *X.*, +, *TSMC Nov. 2020 4387-4393*

#### Fuzzy systems

- Adaptive Fault-Tolerant Compensation Control for T–S Fuzzy Systems With Mismatched Parameter Uncertainties. *Yan, J.*, +, *TSMC Sept. 2020 3412-3423*
- Dissipative Fuzzy Filtering for Nonlinear Networked Systems With Limited Communication Links. *Chen*, Z., +, *TSMC March 2020 962-971*
- Distributed Event-Triggered  $H_{\infty}$  Filtering for Discrete-Time T–S Fuzzy Systems Over Sensor Networks. *Wang*, X., +, *TSMC Sept. 2020 3269-3280*
- Finite-Time  $\mathcal{H}_{\infty}$  Controller Synthesis of T–S Fuzzy Systems. *Li*, *Y*, +, *TSMC May 2020 1956-1963*

Interval Observers Design for Polynomial Fuzzy Singular Systems by Utilizing Sum-of-Squares Program. Pang, B., +, TSMC June 2020 1999-2006

Observer-Based Adaptive Sliding Mode Control for T–S Fuzzy Singular Systems. Sun, X., +, TSMC Nov. 2020 4438-4446

- Online Forecasting of Synchronous Time Series Based on Evolving Linear Models. Jahandari, S., +, TSMC May 2020 1865-1876
- Reducing the Conservatism of Stabilization for Discrete-Time Takagi– Sugeno Fuzzy Systems via a New Extended Representation Approach. *Xie*, *X.*, +, *TSMC Nov. 2020 4387-4393*
- TS Fuzzy Model-Based Controller Design for a Class of Nonlinear Systems Including Nonsmooth Functions. *Vafamand*, N., +, *TSMC Jan. 2020 233-*244

## G

### Gait analysis

Robust Ground Reaction Force Estimation and Control of Lower-Limb Prostheses: Theory and Simulation. *Azimi, V.*, +, *TSMC Aug. 2020 3024-3035* 

#### Game theory

- Maximinh Stability in the Graph Model for Conflict Resolution for Bilateral Conflicts. Rego, L.C., +, TSMC Oct. 2020 3760-3769
- A New Approach to Coalition Analysis Within the Graph Model. Zhu, Z., +, TSMC June 2020 2231-2241
- A Note on Policy Equilibrium and Generalized Metarationalities for Multiple Decision-Maker Conflicts. *Rego, L.C.*, +, *TSMC Oct. 2020 3757-3759*
- A Risk-Based Dynamic Decision-Making Approach for Cybersecurity Protection in Industrial Control Systems. *Qin, Y.*, +, *TSMC Oct. 2020 3863-3870*
- A Robust Game-Based Algorithm for Downlink Joint Resource Allocation in Hierarchical OFDMA Femtocell Network System. Yu, J., +, TSMC July 2020 2445-2455
- A Study of Product Quality and Marketing Efforts in Closed-Loop Supply Chains With Remanufacturing. Chen, C., +, TSMC Dec. 2020 4870-4881
- An Efficient Computing of Correlated Equilibrium for Cooperative *Q*-Learning-Based Multi-Robot Planning. *Sadhu, A.K.*, +, *TSMC Aug. 2020 2779-2794*
- Automated Demand Response Framework in ELNs: Decentralized Scheduling and Smart Contract. Yang, X., +, TSMC Jan. 2020 58-72
- Data-Driven Guaranteed Cost Control Design via Reinforcement Learning for Linear Systems With Parameter Uncertainties. Wu, H., +, TSMC Nov. 2020 4151-4159
- Dynamic Pricing-Based Resilient Strategy Design for Cloud Control System Under Jamming Attack. Yuan, H., +, TSMC Jan. 2020 111-122
- Event-Triggered Adaptive Dynamic Programming for Zero-Sum Game of Partially Unknown Continuous-Time Nonlinear Systems. *Xue, S.*, +, *TSMC Sept. 2020 3189-3199*

- Evolutionary Game Dynamics of Multiagent Systems on Multiple Community Networks. Zhang, J., +, TSMC Nov. 2020 4513-4529
- GrHDP Solution for Optimal Consensus Control of Multiagent Discrete-Time Systems. Zhong, X., +, TSMC July 2020 2362-2374
- Information Sharing in a Supply Chain With a Coopetitive Contract Manufacturer. Wang, J., +, TSMC May 2020 1777-1793
- Optimal CSR and Pricing Decisions With Risk-Averse Providers in a Competitive Shipping System. Zheng, W., +, TSMC Dec. 2020 4959-4973
- Reinforcement Q-Learning Algorithm for H<sub>∞</sub> Tracking Control of Unknown Discrete-Time Linear Systems. *Peng, Y.*, +, *TSMC Nov. 2020 4109-4122*
- Robust Optimal Control for Disturbed Nonlinear Zero-Sum Differential Games Based on Single NN and Least Squares. *Song, R.*, +, *TSMC Nov.* 2020 4009-4019
- Secure and Efficient Vehicle-to-Grid Energy Trading in Cyber Physical Systems: Integration of Blockchain and Edge Computing. *Zhou, Z.*, +, *TSMC Jan. 2020 43-57*
- Social Recommendation With Evolutionary Opinion Dynamics. *Xiong, F.*, +, *TSMC Oct. 2020 3804-3816*
- Target or Not? Endogenous Advertising Strategy Under Competition. Zhang, J., +, TSMC Nov. 2020 4472-4481

The Effect of Bidimensional Power Structure on Supply Chain Decisions and Performance. *Chen, X.,* +, *TSMC March 2020 1095-1110* 

## Gas industry

A New Approach to Coalition Analysis Within the Graph Model. Zhu, Z., +, TSMC June 2020 2231-2241

#### Gauges

Diagnosis, Diagnosticability Analysis, and Test Point Design for Multiple Faults Based on Multisignal Modeling and Blind Source Separation. *Lu*, *N*., +, *TSMC Jan. 2020 137-148* 

#### Gaussian distribution

- An Incremental Probability Model for Dynamic Systems. Kohn, W., +, TSMC June 2020 2083-2092
- Applying Exponential Family Distribution to Generalized Extreme Learning Machine. Jia, Y., +, TSMC May 2020 1794-1804

## Gaussian processes

- An Interventionalist-Behavior-Based Data Fusion Framework for Guidewire Tracking in Percutaneous Coronary Intervention. *Zhou, X.*, +, *TSMC Nov.* 2020 4836-4849
- Efficient Sensor Deployments for Spatio-Temporal Environmental Monitoring. Nguyen, L., +, TSMC Dec. 2020 5306-5316
- Observer-Based Adaptive Finite-Time Quantized Tracking Control of Nonstrict-Feedback Nonlinear Systems With Asymmetric Actuator Saturation. *Yu, Z.*, +, *TSMC Nov. 2020 4545-4556*

## Gears

Modeling and Interpretation of Tidal Turbine Vibration Through Weighted Least Squares Regression. *Galloway, G.S.*, +, *TSMC April 2020 1252-1259* 

Genetic algorithms

- Energy-Efficient Subway Train Scheduling Design With Time-Dependent Demand Based on an Approximate Dynamic Programming Approach. *Liu*, *R.*, +, *TSMC July 2020 2475-2490*
- Multidomain Features-Based GA Optimized Artificial Immune System for Bearing Fault Detection. *Abid*, *A.*, +, *TSMC Jan. 2020 348-359*
- Multifactorial Genetic Programming for Symbolic Regression Problems. Zhong, J., +, TSMC Nov. 2020 4492-4505
- Multiple-Solution Optimization Strategy for Multirobot Task Allocation. Huang, L., +, TSMC Nov. 2020 4283-4294
- Nonlinear Multiobjective MPC-Based Optimal Operation of a High Consistency Refining System in Papermaking. Li, M., +, TSMC March 2020 1208-1215
- Optimal Disintegration Strategy With Heterogeneous Costs in Complex Networks. *Deng*, *Y*, +, *TSMC Aug. 2020 2905-2913*

## Genetics

- Multifactorial Genetic Programming for Symbolic Regression Problems. Zhong, J., +, TSMC Nov. 2020 4492-4505
- Genomics
- Multifactorial Genetic Programming for Symbolic Regression Problems. Zhong, J., +, TSMC Nov. 2020 4492-4505

#### Geometry

A Segmented Geometry Method for Kinematics and Configuration Planning of Spatial Hyper-Redundant Manipulators. *Mu*, Z., +, *TSMC May 2020* 1746-1756

#### **Gesture recognition**

Dealing With Large-Scale Spatio-Temporal Patterns in Imitative Interaction Between a Robot and a Human by Using the Predictive Coding Framework. *Hwang*, J., +, *TSMC May 2020 1918-1931* 

Toward Hand-Dominated Activity Recognition Systems With Wristband-Interaction Behavior Analysis. *Shen, C.,* +, *TSMC July 2020 2501-2511* 

#### Goods distribution

Optimal Pricing Decisions of Competing Air-Cargo-Carrier Systems— Impacts of Risk Aversion, Demand, and Cost Uncertainties. *Wen, X.*, +, *TSMC Dec. 2020 4933-4947* 

## **Government policies**

Optimal CSR and Pricing Decisions With Risk-Averse Providers in a Competitive Shipping System. *Zheng, W.*, +, *TSMC Dec. 2020 4959-4973* 

Value of Bargaining Contract in a Supply Chain System With Sustainability Investment: An Incentive Analysis. *Shi, X.*, +, *TSMC April 2020 1622-1634* 

# Gradient methods

- A Self-Repairing Algorithm With Optimal Repair Path for Maintaining Motion Synchronization of Mobile Robot Network. *Liu, Z.*, +, *TSMC March* 2020 815-828
- Accelerated Convergence Algorithm for Distributed Constrained Optimization under Time-Varying General Directed Graphs. *Li*, *H.*, +, *TSMC July* 2020 2612-2622
- Adaptive Critic Learning and Experience Replay for Decentralized Event-Triggered Control of Nonlinear Interconnected Systems. *Yang, X.*, +, *TSMC Nov. 2020 4043-4055*
- An Approximate Distributed Gradient Estimation Method for Networked System Optimization Under Limited Communications. *Wang, J.*, +, *TSMC Dec.* 2020 5142-5151
- Common Spatial Patterns Based on the Quantized Minimum Error Entropy Criterion. Chen, B., +, TSMC Nov. 2020 4557-4568
- Deterministic Policy Gradient With Integral Compensator for Robust Quadrotor Control. *Wang, Y.*, +, *TSMC Oct. 2020 3713-3725*

Distributed Nonlinear Semiparametric Support Vector Machine for Big Data Applications on Spark Frameworks. *Diaz-Morales, R., +, TSMC Nov. 2020* 4664-4675

- Gradient-Based Particle Filter Algorithm for an ARX Model With Nonlinear Communication Output. *Chen, J.*, +, *TSMC June 2020 2198-2207*
- Matrix Function Optimization Problems Under Orthonormal Constraint. Li, G., +, TSMC March 2020 802-814

Random Gradient-Free Optimization for Multiagent Systems With Communication Noises Under a Time-Varying Weight Balanced Digraph. *Wang*, D., +, TSMC Jan. 2020 281-289

## Graph theory

- Maximinh Stability in the Graph Model for Conflict Resolution for Bilateral Conflicts. Rego, L.C., +, TSMC Oct. 2020 3760-3769
- A Dynamic Data Slice Approach to the Vulnerability Analysis of E-Commerce Systems. Wang, M., +, TSMC Oct. 2020 3598-3612
- A New Approach to Coalition Analysis Within the Graph Model. Zhu, Z., +, TSMC June 2020 2231-2241
- A Note on Policy Equilibrium and Generalized Metarationalities for Multiple Decision-Maker Conflicts. *Rego, L.C.*, +, *TSMC Oct. 2020 3757-3759*
- A Subspace Learning Approach to Multishot Person Reidentification. Zheng, A., +, TSMC Jan. 2020 149-158
- A2G2V: Automatic Attack Graph Generation and Visualization and Its Applications to Computer and SCADA Networks. *Al Ghazo, A.T.*, +, *TSMC Oct. 2020 3488-3498*
- Adaptive Consensus of Multiagent Systems With Unknown High-Frequency Gain Signs Under Directed Graphs. *Wang, Q.*, +, *TSMC June 2020 2181-*2186
- An Approximate Distributed Gradient Estimation Method for Networked System Optimization Under Limited Communications. *Wang, J.*, +, *TSMC Dec. 2020 5142-5151*

- Detecting Seam-Carved Image by Extreme Learning Machines Using Patch Analysis Method, Jury Voting, and Combinatorial Fusion. *Cheng, H.*, +, *TSMC May 2020 1850-1864*
- GrHDP Solution for Optimal Consensus Control of Multiagent Discrete-Time Systems. Zhong, X., +, TSMC July 2020 2362-2374
- Incorporating Discrete Constraints Into Random Walk-Based Graph Matching. Yang, X., +, TSMC April 2020 1406-1416
- Interactive Unawareness in the Graph Model for Conflict Resolution. Rego, L.C., +, TSMC March 2020 829-839
- Maximum *a Posteriori* Estimation for Information Source Detection. *Chang*, *B.*, +, *TSMC June 2020 2242-2256*
- Network-to-Network Control Over Heterogeneous Topologies: A Dynamic Graph Approach. *Meng, D., +, TSMC May 2020 1885-1896*
- Prescribed Performance-Based Consensus of Nonlinear Multiagent Systems With Unknown Control Directions and Switching Networks. *Liu, Y.*, +, *TSMC Feb. 2020 609-616*
- Refinement-Based Hierarchical Modeling and Correctness Verification of Cross-Organization Collaborative Emergency Response Processes. *Duan*, H., +, TSMC Aug. 2020 2845-2859
- Robust Bipartite Consensus and Tracking Control of High-Order Multiagent Systems With Matching Uncertainties and Antagonistic Interactions. *Liu*, *M.*, +, *TSMC July 2020 2541-2550*
- The Anti-Social System Properties: Bitcoin Network Data Analysis. Alqassem, I., +, TSMC Jan. 2020 21-31

## Graphical user interfaces

Smoothed Graphic User Interaction on Smartphones With Motion Prediction. *Lin, Y., +, TSMC April 2020 1429-1441* 

Greedy algorithms

Anonymous Privacy Preservation Based on *m*-Signature and Fuzzy Processing for Real-Time Data Release. *Le*, *J.*, +, *TSMC Oct. 2020 3871-3883* 

- Human Identification Using Selected Features From Finger Geometric Profiles. Bera, A., +, TSMC March 2020 747-761
- Maximum *a Posteriori* Estimation for Information Source Detection. *Chang*, *B.*, +, *TSMC June 2020 2242-2256*

#### Grey systems

An MCDM-Based Multiobjective General Variable Neighborhood Search Approach for Disassembly Line Balancing Problem. *Ren, Y.*, +, *TSMC Oct.* 2020 3770-3783

## Group theory

Criteria Making in Role Negotiation. *Zhu, X.*, +, *TSMC Oct. 2020 3731-3740* Group Consensus for Heterogeneous Multiagent Systems in the Competition Networks With Input Time Delays. *Ji, L.*, +, *TSMC Nov. 2020 4655-4663* 

# Groupware

- Collaborative Learning-Based Clustered Support Vector Machine for Modeling of Nonlinear Processes Subject to Noise. *Lu, X.*, +, *TSMC Dec. 2020* 5162-5171
- Cooperative Optimization of Dual Multiagent System for Optimal Resource Allocation. *Li, K.*, +, *TSMC Nov. 2020 4676-4687*
- Refinement-Based Hierarchical Modeling and Correctness Verification of Cross-Organization Collaborative Emergency Response Processes. *Duan*, H., +, TSMC Aug. 2020 2845-2859
- Scalable Hypernetwork-Based Manufacturing Services Supply Demand Matching Toward Industrial Internet Platforms. *Cheng, Y.*, +, *TSMC Dec.* 2020 5000-5014

## Н

### $\mathrm{H}^\infty$ control

- Distributed  $H_{\infty}$  Optimal Tracking Control for Strict-Feedback Nonlinear Large-Scale Systems With Disturbances and Saturating Actuators. *Tan, L.N., TSMC Nov. 2020 4719-4731*
- Error State Convergence on Master–Slave Generalized Uncertain Neural Networks Using Robust Nonlinear  $H_{\infty}$  Control Theory. Chen, H., +, TSMC June 2020 2042-2055
- Estimator-Based H<sub>co</sub> Sampled-Data Fuzzy Control for Nonlinear Parabolic PDE Systems. *Wang, Z., +, TSMC July 2020 2491-2500*

Time-Variant Graph Classification. Wang, H., +, TSMC Aug. 2020 2883-2896

- Event-Triggered and Self-Triggered H<sub>∞</sub> Control of Uncertain Switched Linear Systems. *Qi*, *Y*, +, *TSMC April 2020 1442-1454*
- Event-Triggered Integral Sliding-Mode Control for Nonlinear Constrained-Input Systems With Disturbances via Adaptive Dynamic Programming. *Yang, D.*, +, *TSMC Nov. 2020 4086-4096*
- Finite-Time  $\mathcal{H}_{\infty}$  Controller Synthesis of T–S Fuzzy Systems. *Li*, *Y*, +, *TSMC May 2020 1956-1963*
- Model-Free  $H_{\infty}$  Optimal Tracking Control of Constrained Nonlinear Systems via an Iterative Adaptive Learning Algorithm. *Hou, J.*, +, *TSMC Nov.* 2020 4097-4108
- Observer-Based Adaptive Sliding Mode Control for T–S Fuzzy Singular Systems. Sun, X., +, TSMC Nov. 2020 4438-4446
- Quantized  $H_{\infty}$  Estimator Over Communication Networks for Distributed Generation Units. *Mahmoud*, *M.S.*, +, *TSMC March 2020 1134-1146*
- Reinforcement Q-Learning Algorithm for H<sub>∞</sub> Tracking Control of Unknown Discrete-Time Linear Systems. *Peng, Y.*, +, *TSMC Nov. 2020 4109-4122*

## $H_{\infty}$ filters

- Distributed Event-Triggered H<sub>∞</sub> Filtering for Discrete-Time T–S Fuzzy Systems Over Sensor Networks. Wang, X., +, TSMC Sept. 2020 3269-3280 Filtering Design for Multirate Sampled-Data Systems. Li, Z., +, TSMC Nov.
- 2020 4224-4232

## Haptic interfaces

- Cross-Modal Zero-Shot-Learning for Tactile Object Recognition. *Liu*, *H*., +, *TSMC July 2020 2466-2474*
- Haptic Tele-Driving of Wheeled Mobile Robots Under Nonideal Wheel Rolling, Kinematic Control and Communication Time Delay. *Li, W.*, +, *TSMC Jan. 2020 336-347*
- Real-Time Recurrent Tactile Recognition: Momentum Batch-Sequential Echo State Networks. *Cao, L.*, +, *TSMC April 2020 1350-1361*
- Visual Guidance for a Spatial Discrepancy Problem of in Encountered-Type Haptic Display. *Lee, C., +, TSMC April 2020 1384-1394*

## Hardware-in-the loop simulation

Robot Path Planning Using Analog Circuit Phase Delay. Garvey, S., +, TSMC Oct. 2020 3898-3911

## Health care

Modeling and Analysis of Patient Transitions in Community Hospitals: A Systems Approach. Lee, H.K., +, TSMC Feb. 2020 686-699

## Helicopters

- Deterministic Policy Gradient With Integral Compensator for Robust Quadrotor Control. *Wang, Y.*, +, *TSMC Oct. 2020 3713-3725*
- Image Dynamics-Based Visual Servoing for Quadrotors Tracking a Target With a Nonlinear Trajectory Observer. Cao, Z., +, TSMC Jan. 2020 376-384
- Robust Hybrid Nonlinear Control Systems for the Dynamics of a Quadcopter Drone. Santoso, F., +, TSMC Aug. 2020 3059-3071
- TS Fuzzy Model-Based Controller Design for a Class of Nonlinear Systems Including Nonsmooth Functions. *Vafamand, N.*, +, *TSMC Jan. 2020 233-*244

#### Henon mapping

Dissipative Fuzzy Filtering for Nonlinear Networked Systems With Limited Communication Links. *Chen*, Z., +, *TSMC March 2020 962-971* 

## Heuristic programming

- GrHDP Solution for Optimal Consensus Control of Multiagent Discrete-Time Systems. Zhong, X., +, TSMC July 2020 2362-2374
- Model-Free  $H_{\infty}$  Optimal Tracking Control of Constrained Nonlinear Systems via an Iterative Adaptive Learning Algorithm. *Hou, J.*, +, *TSMC Nov.* 2020 4097-4108
- The Orthogonal Packing and Scheduling Problem: Model, Heuristic, and Benchmark. *He, K.*, +, *TSMC April 2020 1372-1383*

## Hidden Markov models

- An Event-Triggered Approach to Sliding Mode Control of Markovian Jump Lur'e Systems Under Hidden Mode Detections. *Song, J.*, +, *TSMC April* 2020 1514-1525
- Context-Aware Decision Support for Anti-Submarine Warfare Mission Planning Within a Dynamic Environment. *Mishra, M.*, +, *TSMC Jan. 2020* 318-335

Resilient Asynchronous H<sub>∞</sub> Control for Discrete-Time Markov Jump Singularly Perturbed Systems Based on Hidden Markov Model. *Li*, *F.*, +, *TSMC Aug.* 2020 2860-2869

#### **Hierarchical systems**

Disturbance-Observer-Based Fault Tolerant Control of High-Speed Trains: A Markovian Jump System Model Approach. *Yao, X.*, +, *TSMC April 2020* 1476-1485

## Hilbert spaces

Research Progress on Intelligent System's Learning, Optimization, and Control—Part II: Online Sparse Kernel Adaptive Algorithm. *Tan, F.*, +, *TSMC Dec.* 2020 5369-5385

## Home computing

Context-Aware Service Provisioning via Agentized and Reconfigurable Multimodel Cooperation for Real-Life IoT-Enabled Smart Home Systems. *Lu, C., TSMC Aug. 2020 2914-2925* 

#### Hospitals

Modeling and Analysis of Patient Transitions in Community Hospitals: A Systems Approach. *Lee, H.K.*, +, *TSMC Feb. 2020 686-699* 

### Human-robot interaction

Dynamic Emotion Understanding in Human–Robot Interaction Based on Two-Layer Fuzzy SVR-TS Model. *Chen, L., +, TSMC Feb. 2020 490-501*Human-Inspired Control of Dual-Arm Exoskeleton Robots With Force and Impedance Adaptation. *Li, Z., +, TSMC Dec. 2020 5296-5305*

#### Humanoid robots

- A Humanoid Robot Learns to Recover Perturbation During Swinging Motion. Tran, D.H., +, TSMC Oct. 2020 3701-3712
- A Theoretical Framework for Stability Regions for Standing Balance of Humanoids Based on Their LIPM Treatment. *Kim, J.H.*, +, *TSMC Nov.* 2020 4569-4586

Dealing With Large-Scale Spatio-Temporal Patterns in Imitative Interaction Between a Robot and a Human by Using the Predictive Coding Framework. *Hwang, J.*, +, *TSMC May 2020 1918-1931* 

## HVAC

Modeling of Room Temperature Dynamics for Efficient Building Energy Management. Rao, D.M.K.K.V., +, TSMC Feb. 2020 717-725

Hydraulic actuators

An Adaptive Neural Network Controller for Active Suspension Systems With Hydraulic Actuator. *Liu*, *Y*, +, *TSMC Dec. 2020 5351-5360* 

#### Hydraulic control equipment

Diagnosis, Diagnosticability Analysis, and Test Point Design for Multiple Faults Based on Multisignal Modeling and Blind Source Separation. *Lu*, *N.*, +, *TSMC Jan. 2020 137-148* 

#### Hysteresis

- A Modeling Method of Electromagnetic Micromirror in Random Noisy Environment. Cao, Q., +, TSMC July 2020 2578-2587
- Mirror Angle Tuning of Electromagnetic Micro-Mirrors With Oscillation Compensation. Dong, R., +, TSMC Aug. 2020 2969-2977
- Partial State Constraints-Based Control for Nonlinear Systems With Backlash-Like Hysteresis. *Liu*, *L*., +, *TSMC Aug. 2020 3100-3104*

T

IEC standards Discrete-Event-Based Deterministic Execution Semantics With Timestamps for Industrial Cyber-Physical Systems. Dai, W., +, TSMC March 2020 851-862

## Image capture

Online Heterogeneous Face Recognition Based on Total-Error-Rate Minimization. Jang, S., +, TSMC April 2020 1286-1299

#### **Image classification**

- A Novel Weber Local Binary Descriptor for Fingerprint Liveness Detection. *Xia*, *Z.*, +, *TSMC April 2020 1526-1536*
- Cross-Modal Zero-Shot-Learning for Tactile Object Recognition. Liu, H., +, TSMC July 2020 2466-2474
- Detection of Power Line Insulator Defects Using Aerial Images Analyzed With Convolutional Neural Networks. *Tao, X.*, +, *TSMC April 2020 1486-1498*
- Human Identification Using Selected Features From Finger Geometric Profiles. Bera, A., +, TSMC March 2020 747-761

- Multisource Domain Attribute Adaptation Based on Adaptive Multikernel Alignment Learning. *Wang, X., +, TSMC May 2020 1897-1908*
- Toward Hand-Dominated Activity Recognition Systems With Wristband-Interaction Behavior Analysis. *Shen, C.,* +, *TSMC July 2020 2501-2511*
- Zero-Shot Learning Based on Deep Weighted Attribute Prediction. *Wang, X.*, +, *TSMC Aug. 2020 2948-2957*

#### Image color analysis

- A Review on Intelligence Dehazing and Color Restoration for Underwater Images. Han, M., +, TSMC May 2020 1820-1832
- Surgical Wounds Assessment System for Self-Care. Chen, Y., +, TSMC Dec. 2020 5076-5091

## Image denoising

A Review on Intelligence Dehazing and Color Restoration for Underwater Images. Han, M., +, TSMC May 2020 1820-1832

#### Image enhancement

- A Review on Intelligence Dehazing and Color Restoration for Underwater Images. Han, M., +, TSMC May 2020 1820-1832
- Detecting Seam-Carved Image by Extreme Learning Machines Using Patch Analysis Method, Jury Voting, and Combinatorial Fusion. *Cheng, H.*, +, *TSMC May 2020 1850-1864*

## **Image fusion**

- An Interventionalist-Behavior-Based Data Fusion Framework for Guidewire Tracking in Percutaneous Coronary Intervention. *Zhou, X.*, +, *TSMC Nov.* 2020 4836-4849
- Detecting Seam-Carved Image by Extreme Learning Machines Using Patch Analysis Method, Jury Voting, and Combinatorial Fusion. *Cheng, H.*, +, *TSMC May 2020 1850-1864*

#### Image matching

- A Full Density Stereo Matching System Based on the Combination of CNNs and Slanted-Planes. *Chen, L.*, +, *TSMC Feb. 2020 397-408*
- Incorporating Discrete Constraints Into Random Walk-Based Graph Matching. Yang, X., +, TSMC April 2020 1406-1416

#### Image motion analysis

- An Interventionalist-Behavior-Based Data Fusion Framework for Guidewire Tracking in Percutaneous Coronary Intervention. *Zhou, X.*, +, *TSMC Nov.* 2020 4836-4849
- Online Rail Surface Inspection Utilizing Spatial Consistency and Continuity. Gan, J., +, TSMC July 2020 2741-2751
- Pyramidal Lucas—Kanade-Based Noncontact Breath Motion Detection. Tran, Q., +, TSMC July 2020 2659-2670
- Toward Hand-Dominated Activity Recognition Systems With Wristband-Interaction Behavior Analysis. *Shen, C.*, +, *TSMC July 2020 2501-2511*

## Image processing

Non-Negative Matrix Factorization With Dual Constraints for Image Clustering. Yang, Z., +, TSMC July 2020 2524-2533

#### Image recognition

- Automatic Visual Fingerprinting for Indoor Image-Based Localization Applications. Vedadi, F., +, TSMC Jan. 2020 305-317
- Fine-Grained Visual Comparison Based on Relative Attribute Quadratic Discriminant Analysis. *Shi, H.,* +, *TSMC June 2020 2113-2119*

#### Image reconstruction

OpenMRE: A Numerical Platform for MRE Study. Li, B.N., +, TSMC March 2020 1111-1121

# Image representation

- Fine-Grained Visual Comparison Based on Relative Attribute Quadratic Discriminant Analysis. *Shi, H.,* +, *TSMC June 2020 2113-2119*
- Human Identification Using Selected Features From Finger Geometric Profiles. Bera, A., +, TSMC March 2020 747-761

Zero-Shot Learning Based on Deep Weighted Attribute Prediction. *Wang, X.*, +, *TSMC Aug. 2020 2948-2957* 

#### Image restoration

A Review on Intelligence Dehazing and Color Restoration for Underwater Images. Han, M., +, TSMC May 2020 1820-1832

## Image sampling

Toward Hand-Dominated Activity Recognition Systems With Wristband-Interaction Behavior Analysis. Shen, C., +, TSMC July 2020 2501-2511

# + Check author entry for coauthors

#### Image segmentation

- A Novel Diagonal Class Entropy-Based Multilevel Image Thresholding Using Coral Reef Optimization. *Agrawal, S.*, +, *TSMC Nov. 2020 4688-*4696
- A UAV Video Dataset for Mosaicking and Change Detection From Low-Altitude Flights. *Avola, D., +, TSMC June 2020 2139-2149*
- Detection of Power Line Insulator Defects Using Aerial Images Analyzed With Convolutional Neural Networks. *Tao, X.*, +, *TSMC April 2020 1486-1498*
- Surgical Wounds Assessment System for Self-Care. Chen, Y., +, TSMC Dec. 2020 5076-5091
- Using Stacked Sparse Auto-Encoder and Superpixel CRF for Long-Term Visual Scene Understanding of UGVs. *Qiu, Z.*, +, *TSMC April 2020 1331-1342*

#### Image sensors

A Subspace Learning Approach to Multishot Person Reidentification. Zheng, A., +, TSMC Jan. 2020 149-158

#### Image sequences

- A UAV Video Dataset for Mosaicking and Change Detection From Low-Altitude Flights. Avola, D., +, TSMC June 2020 2139-2149
- Pyramidal Lucas—Kanade-Based Noncontact Breath Motion Detection. Tran, Q., +, TSMC July 2020 2659-2670
- Toward Hand-Dominated Activity Recognition Systems With Wristband-Interaction Behavior Analysis. *Shen, C.,* +, *TSMC July 2020 2501-2511*

## Image texture

- A Novel Weber Local Binary Descriptor for Fingerprint Liveness Detection. Xia, Z., +, TSMC April 2020 1526-1536
- Surgical Wounds Assessment System for Self-Care. Chen, Y., +, TSMC Dec. 2020 5076-5091

#### **Indoor navigation**

- Automatic Visual Fingerprinting for Indoor Image-Based Localization Applications. Vedadi, F., +, TSMC Jan. 2020 305-317
- Hybrid Indoor Positioning System for First Responders. De Cillis, F., +, TSMC Feb. 2020 468-479

#### Indoor radio

- Automatic Visual Fingerprinting for Indoor Image-Based Localization Applications. Vedadi, F., +, TSMC Jan. 2020 305-317
- Hybrid Indoor Positioning System for First Responders. De Cillis, F., +, TSMC Feb. 2020 468-479

#### Industrial control

- A Risk-Based Dynamic Decision-Making Approach for Cybersecurity Protection in Industrial Control Systems. *Qin, Y.*, +, *TSMC Oct. 2020 3863-3870*
- Improved Control for Industrial Systems Over Model Uncertainty: A Receding Horizon Expanded State Space Control Approach. Zhang, R., TSMC April 2020 1343-1349

#### Industrial economics

A Study of Product Quality and Marketing Efforts in Closed-Loop Supply Chains With Remanufacturing. *Chen, C.*, +, *TSMC Dec. 2020 4870-4881* ustrial manipulators

#### **Industrial manipulators**

Modeling and Optimal Cyclic Scheduling of Time-Constrained Single-Robot-Arm Cluster Tools via Petri Nets and Linear Programming. *Yang, F.*, +, *TSMC March 2020 871-883* 

#### **Industrial plants**

EventiC: A Real-Time Unbiased Event-Based Learning Technique for Complex Systems. Danishvar, M., +, TSMC May 2020 1649-1662

#### Industrial robots

- An Approach to Design Robust Tracking Controllers for Nonlinear Uncertain Systems. *Celentano, L., +, TSMC Aug. 2020 3010-3023*
- Multiobjective Scheduling of Dual-Blade Robotic Cells in Wafer Fabrication. Zhu, Q., +, TSMC Dec. 2020 5015-5023

#### **Inertial navigation**

Hybrid Indoor Positioning System for First Responders. De Cillis, F., +, TSMC Feb. 2020 468-479

#### Inference mechanisms

A Belief Rule-Based Expert System for Fault Diagnosis of Marine Diesel Engines. Xu, X., +, TSMC Feb. 2020 656-672

5495

- A Novel Semi-Supervised Sparse Bayesian Regression Based on Variational Inference for Industrial Datasets With Incomplete Outputs. *Zhao, J.*, +, *TSMC Nov. 2020 4773-4786*
- A Probabilistic Linguistic Group Decision-Making Method From a Reliability Perspective Based on Evidential Reasoning. *Ma*, *Z*., +, *TSMC July 2020* 2421-2435
- Context-Aware Reliable Crowdsourcing in Social Networks. Jiang, J., +, TSMC Feb. 2020 617-632
- Inferring Implicit Rules by Learning Explicit and Hidden Item Dependency. Wang, S., +, TSMC March 2020 935-946
- Integrating Community Context Information Into a Reliably Weighted Collaborative Filtering System Using Soft Ratings. Nguyen, V., +, TSMC April 2020 1318-1330
- Model-Based Monitoring and Adaptation of Pacemaker Behavior Using Hierarchical Fuzzy Colored Petri-Nets. *Majma, N.*, +, *TSMC Sept. 2020* 3344-3357

### Information filtering

A Bank of Decentralized Extended Information Filters for Target Tracking in Event-Triggered WSNs. *Yang, X.,* +, *TSMC Sept. 2020 3281-3289* 

#### Information networks

Integrating Multisourced Texts in Online Business Intelligence Systems. Cao, J., +, TSMC May 2020 1638-1648

### Information retrieval

Intelligent Data-Driven Adaptive Method for Optimizing System Integration Scaling Factors for Touch Panel Lamination Machines. *Tsai, J.*, +, *TSMC April 2020 1300-1309* 

#### Inspection

- A BDI Modeling Approach for Decision Support in Supply Chain Quality Inspection. Yan, J., +, TSMC March 2020 884-898
- A Segmented Geometry Method for Kinematics and Configuration Planning of Spatial Hyper-Redundant Manipulators. *Mu*, Z., +, *TSMC May 2020* 1746-1756
- Online Rail Surface Inspection Utilizing Spatial Consistency and Continuity. Gan, J., +, TSMC July 2020 2741-2751

## Integer programming

- A Bi-Objective Model on Multiperiod Green Supply Chain Network Design. Zhen, L., TSMC March 2020 771-784
- A Three-Stage Multiobjective Approach Based on Decomposition for an Energy-Efficient Hybrid Flow Shop Scheduling Problem. *Zhang, B.*, +, *TSMC Dec. 2020 4984-4999*
- Avoiding Critical Members in a Team by Redundant Assignment. Zhu, H., TSMC July 2020 2729-2740
- Bi-Objective Optimal Scheduling With Raw Material's Shelf-Life Constraints in Unrelated Parallel Machines Production. *Wang, M.*, +, *TSMC Nov. 2020 4598-4610*
- Dual-Objective Optimization for Lane Reservation With Residual Capacity and Budget Constraints. *Wu*, *P*, +, *TSMC June 2020 2187-2197*
- Energy-Efficient Scheduling of Real-Time Tasks in Reconfigurable Homogeneous Multicore Platforms. *Gammoudi*, A., +, *TSMC Dec. 2020 5092-5105*
- Integrated Network Design of Agile Resource-Efficient Supply Chains Under Uncertainty. *Dotoli, M.*, +, *TSMC Nov. 2020 4530-4544*
- Liveness Analysis and Deadlock Control for Automated Manufacturing Systems With Multiple Resource Requirements. *Feng, Y.*, +, *TSMC Feb. 2020* 525-538

The Orthogonal Packing and Scheduling Problem: Model, Heuristic, and Benchmark. *He, K.*, +, *TSMC April 2020 1372-1383* 

#### Integrated circuit manufacture

Multiobjective Scheduling of Dual-Blade Robotic Cells in Wafer Fabrication. Zhu, Q., +, TSMC Dec. 2020 5015-5023

#### Intelligent manufacturing systems

Joint Energy, Maintenance, and Throughput Modeling for Sustainable Manufacturing Systems. *Sun*, Z., +, *TSMC June 2020 2101-2112* 

## Intelligent transportation systems

A Reinforcement Learning Approach to Autonomous Decision Making of Intelligent Vehicles on Highways. Xu, X., +, TSMC Oct. 2020 3884-3897

# + Check author entry for coauthors

#### Interactive devices

Intelligent Data-Driven Adaptive Method for Optimizing System Integration Scaling Factors for Touch Panel Lamination Machines. *Tsai, J.*, +, *TSMC April 2020 1300-1309* 

## Interconnected systems

- Adaptive Critic Learning and Experience Replay for Decentralized Event-Triggered Control of Nonlinear Interconnected Systems. *Yang, X.*, +, *TSMC Nov. 2020 4043-4055*
- Adaptive Dynamic Programming for Decentralized Stabilization of Uncertain Nonlinear Large-Scale Systems With Mismatched Interconnections. *Yang, X.*, +, *TSMC Aug. 2020 2870-2882*
- EventiC: A Real-Time Unbiased Event-Based Learning Technique for Complex Systems. Danishvar, M., +, TSMC May 2020 1649-1662
- Nonsmooth Decentralized Stabilization for Interconnected Systems Subject to Strongly Coupled Uncertain Interactions. *Zhang, C.*, +, *TSMC July 2020* 2685-2692

#### Internet

Pricing and Return Strategy: Whether to Adopt a Cross-Channel Return Option?. Yan, S., +, TSMC Dec. 2020 5058-5073

## Internet of Things

- A2G2V: Automatic Attack Graph Generation and Visualization and Its Applications to Computer and SCADA Networks. *Al Ghazo, A.T.*, +, *TSMC Oct. 2020 3488-3498*
- Context-Aware Service Provisioning via Agentized and Reconfigurable Multimodel Cooperation for Real-Life IoT-Enabled Smart Home Systems. *Lu, C., TSMC Aug. 2020 2914-2925*
- Data-Driven Analysis for RFID-Enabled Smart Factory: A Case Study. Feng, J., +, TSMC Jan. 2020 81-88
- ManuChain: Combining Permissioned Blockchain With a Holistic Optimization Model as Bi-Level Intelligence for Smart Manufacturing. *Leng, J.*, +, *TSMC Jan. 2020 182-192*
- Securing Data in Internet of Things (IoT) Using Cryptography and Steganography Techniques. *Khari, M., +, TSMC Jan. 2020 73-80*

#### Invariance

Practical Regulation of Nonholonomic Systems Using Virtual Trajectories and LaSalle Invariance Principle. *Zhang, D.*, +, *TSMC May 2020 1833-1839* 

#### **Inventory management**

Environmental Taxes in Newsvendor Supply Chains: A Mean-Downside-Risk Analysis. Chan, H., +, TSMC Dec. 2020 4856-4869

#### Inverse problems

Bidirectional Backpropagation. *Adigun, O.*, +, *TSMC May 2020 1982-1994* OpenMRE: A Numerical Platform for MRE Study. *Li, B.N.*, +, *TSMC March 2020 1111-1121* 

#### Investment

- An Evaluation and Optimization Methodology for Efficient Power Plant Programs. Han, W., +, TSMC Feb. 2020 707-716
- An Innovative Sentiment Analysis to Measure Herd Behavior. Ren, R., +, TSMC Oct. 2020 3841-3851
- Coordination and Enhancement Schemes for Quick Response Mass Customization Supply Chains With Consumer Returns and Salvage Value Considerations. *Guo*, S., +, *TSMC Feb. 2020 673-685*
- Reweighted Price Relative Tracking System for Automatic Portfolio Optimization. Lai, Z., +, TSMC Nov. 2020 4349-4361
- Value of Bargaining Contract in a Supply Chain System With Sustainability Investment: An Incentive Analysis. *Shi*, *X.*, +, *TSMC April 2020 1622-1634*

## Ionospheric electromagnetic wave propagation

Target State and Markovian Jump Ionospheric Height Bias Estimation for OTHR Tracking Systems. *Geng, H.*, +, *TSMC July 2020 2599-2611* 

## Iron

Optimal Setting and Control for Iron Removal Process Based on Adaptive Neural Network Soft-Sensor. *Xie, S.,* +, *TSMC July 2020 2408-2420* 

### Iterative learning control

- Contraction Mapping-Based Robust Convergence of Iterative Learning Control With Uncertain, Locally Lipschitz Nonlinearity. *Meng, D.*, +, *TSMC Feb.* 2020 442-454
- Finite-Iteration Tracking of Singular Coupled Systems Based on Learning Control With Packet Losses. *Xiong, W.*, +, *TSMC Jan. 2020 245-255*

#### **Iterative methods**

- A Reinforcement Learning Approach to Autonomous Decision Making of Intelligent Vehicles on Highways. Xu, X., +, TSMC Oct. 2020 3884-3897
- A Robust Game-Based Algorithm for Downlink Joint Resource Allocation in Hierarchical OFDMA Femtocell Network System. Yu, J., +, TSMC July 2020 2445-2455
- Accelerated Convergence Algorithm for Distributed Constrained Optimization under Time-Varying General Directed Graphs. Li, H., +, TSMC July 2020 2612-2622
- Adaptive Dynamic Programming for Decentralized Stabilization of Uncertain Nonlinear Large-Scale Systems With Mismatched Interconnections. *Yang, X., +, TSMC Aug. 2020 2870-2882*
- Balancing Value Iteration and Policy Iteration for Discrete-Time Control. Luo, B., +, TSMC Nov. 2020 3948-3958
- Common Spatial Patterns Based on the Quantized Minimum Error Entropy Criterion. Chen, B., +, TSMC Nov. 2020 4557-4568
- Contraction Mapping-Based Robust Convergence of Iterative Learning Control With Uncertain, Locally Lipschitz Nonlinearity. *Meng, D.*, +, *TSMC Feb. 2020 442-454*
- Distributed Nonlinear Semiparametric Support Vector Machine for Big Data Applications on Spark Frameworks. *Diaz-Morales, R., +, TSMC Nov. 2020* 4664-4675
- Dual-Objective Optimization for Lane Reservation With Residual Capacity and Budget Constraints. *Wu*, *P*, +, *TSMC June 2020 2187-2197*
- Estimator-Based H<sub>∞</sub> Sampled-Data Fuzzy Control for Nonlinear Parabolic PDE Systems. Wang, Z., +, TSMC July 2020 2491-2500
- Expected Convergence Rate to Consensus in Asymmetric Networks: Analysis and Distributed Estimation. Asadi, M.M., +, TSMC March 2020 972-987
- Finite-Iteration Tracking of Singular Coupled Systems Based on Learning Control With Packet Losses. *Xiong, W.*, +, *TSMC Jan. 2020 245-255*
- Formation Control of Multiple Mobile Robots Incorporating an Extended State Observer and Distributed Model Predictive Approach. *Liu, A.*, +, *TSMC Nov. 2020 4587-4597*
- Intelligent Data-Driven Adaptive Method for Optimizing System Integration Scaling Factors for Touch Panel Lamination Machines. *Tsai, J.*, +, *TSMC April 2020 1300-1309*
- Invariant Adaptive Dynamic Programming for Discrete-Time Optimal Control. *Zhu, Y., +, TSMC Nov. 2020 3959-3971*
- Iterative Identification of Hammerstein Parameter Varying Systems With Parameter Uncertainties Based on the Variational Bayesian Approach. *Ma*, *J.*, +, *TSMC March 2020 1035-1045*
- ManuChain: Combining Permissioned Blockchain With a Holistic Optimization Model as Bi-Level Intelligence for Smart Manufacturing. *Leng, J.*, +, *TSMC Jan. 2020 182-192*
- Matrix Function Optimization Problems Under Orthonormal Constraint. Li, G., +, TSMC March 2020 802-814
- Model-Free Distributed Consensus Control Based on Actor–Critic Framework for Discrete-Time Nonlinear Multiagent Systems. *Wang, W.*, +, *TSMC Nov. 2020 4123-4134*
- Model-Free  $H_{\infty}$  Optimal Tracking Control of Constrained Nonlinear Systems via an Iterative Adaptive Learning Algorithm. *Hou, J.*, +, *TSMC Nov.* 2020 4097-4108
- Modeling and Analysis of Patient Transitions in Community Hospitals: A Systems Approach. Lee, H.K., +, TSMC Feb. 2020 686-699
- Neuro-Optimal Control for Discrete Stochastic Processes via a Novel Policy Iteration Algorithm. *Liang, M.*, +, *TSMC Nov. 2020 3972-3985*
- Non-Negative Matrix Factorization With Dual Constraints for Image Clustering. Yang, Z., +, TSMC July 2020 2524-2533
- Quantized Data Driven Iterative Learning Control for a Class of Nonlinear Systems With Sensor Saturation. *Bu*, *X.*, +, *TSMC Dec. 2020 5119-5129*
- Robust Optimal Control for Disturbed Nonlinear Zero-Sum Differential Games Based on Single NN and Least Squares. Song, R., +, TSMC Nov. 2020 4009-4019
- Secure and Efficient Vehicle-to-Grid Energy Trading in Cyber Physical Systems: Integration of Blockchain and Edge Computing. *Zhou, Z.*, +, *TSMC Jan. 2020 43-57*

- Sparse Proximal Reinforcement Learning via Nested Optimization. Song, T., +, TSMC Nov. 2020 4020-4032
- Target State and Markovian Jump Ionospheric Height Bias Estimation for OTHR Tracking Systems. *Geng, H.*, +, *TSMC July 2020 2599-2611*
- Unifying Analytical Methods With Numerical Methods for Traffic System Modeling and Control. *Zhang, Y.*, +, *TSMC June 2020 2068-2082*
- Value Iteration-Based  $H_{\infty}$  Controller Design for Continuous-Time Nonlinear Systems Subject to Input Constraints. *Zhang, H.*, +, *TSMC Nov. 2020* 3986-3995
  - J
- Dynamic Pricing-Based Resilient Strategy Design for Cloud Control System
- Under Jamming Attack. Yuan, H., +, TSMC Jan. 2020 111-122 Formation Control of Multiple Mobile Robots Incorporating an Extended State Observer and Distributed Model Predictive Approach. Liu, A., +, TSMC Nov. 2020 4587-4597

Job shop scheduling

Kalman filters

Jamming

Scheduling Dual-Objective Stochastic Hybrid Flow Shop With Deteriorating Jobs via Bi-Population Evolutionary Algorithm. *Fu*, *Y*, +, *TSMC Dec.* 2020 5037-5048

K

- Adaptive Quantized Estimation Fusion Using Strong Tracking Filtering and Variational Bayesian. Ge, Q., +, TSMC March 2020 899-910
- Compensating Delays and Noises in Motion Control of Autonomous Electric Vehicles by Using Deep Learning and Unscented Kalman Predictor. *Li*, *Y*, +, *TSMC Nov. 2020 4326-4338*
- Event-Triggered Distributed Fusion Estimation of Networked Multisensor Systems With Limited Information. Yan, H., +, TSMC Dec. 2020 5330-5337
- Modeling of Room Temperature Dynamics for Efficient Building Energy Management. Rao, D.M.K.K.V., +, TSMC Feb. 2020 717-725
- Muscle Fatigue Induced Hand Tremor Clustering in Dynamic Laparoscopic Manipulation. *Chandra, S.*, +, *TSMC Dec. 2020 5420-5431*
- Optimal Estimation for Discrete-Time Linear System with Communication Constraints and Measurement Quantization. *Ren, H.*, +, *TSMC May 2020* 1932-1942
- Resilient Nonlinear Control for Attacked Cyber-Physical Systems. *Pang, Y.*, +, *TSMC June 2020 2129-2138*
- Simultaneous Input and State Estimation for Integrated Motor-Transmission Systems in a Controller Area Network Environment via an Adaptive Unscented Kalman Filter. *Jiang, K.*, +, *TSMC April 2020 1570-1579*

Stability Analysis of Covariance Intersection-Based Kalman Consensus Filtering for Time-Varying Systems. *Wei, G.*, +, *TSMC Nov. 2020 4611-4622* Knowledge based systems

Supervisory Control of Deadlock-Prone Production Systems With Routing Flexibility and Unreliable Resources. Yue, H., +, TSMC Oct. 2020 3528-3540

#### L

## Large-scale systems

- An Approach to Design Robust Tracking Controllers for Nonlinear Uncertain Systems. *Celentano, L., +, TSMC Aug. 2020 3010-3023*
- Decentralized Adaptive NN Output-Feedback Fault Compensation Control of Nonlinear Switched Large-Scale Systems With Actuator Dead-Zones. *Ma*, *Z*., +, *TSMC Sept. 2020 3435-3447*
- Distributed  $H_{\infty}$  Optimal Tracking Control for Strict-Feedback Nonlinear Large-Scale Systems With Disturbances and Saturating Actuators. *Tan, L.N., TSMC Nov. 2020 4719-4731*
- Disturbance-Observer-Based Fault Tolerant Control of High-Speed Trains: A Markovian Jump System Model Approach. *Yao, X.*, +, *TSMC April 2020* 1476-1485
- EventiC: A Real-Time Unbiased Event-Based Learning Technique for Complex Systems. Danishvar; M., +, TSMC May 2020 1649-1662

- Fault Detection Approaches for Fuzzy Large-Scale Systems With Unknown Membership Functions. *Wang, H., +, TSMC Sept. 2020 3333-3343*
- Synchronization Analysis for Stochastic Delayed Multilayer Network With Additive Couplings. Zhuang, J., +, TSMC Nov. 2020 4807-4816
- Laser beam welding
- Stream-of-Variation (SOV) Theory Applied in Geometric Error Modeling for Six-Axis Motion Platform. *Tang*, H., +, *TSMC March 2020 762-770* Learning (artificial intelligence)
  - A BDI Modeling Approach for Decision Support in Supply Chain Quality Inspection. Yan, J., +, TSMC March 2020 884-898
  - A Clustering-Based Nonlinear Ensemble Approach for Exchange Rates Forecasting. Sun, S., +, TSMC June 2020 2284-2292
  - A Full Density Stereo Matching System Based on the Combination of CNNs and Slanted-Planes. Chen, L., +, TSMC Feb. 2020 397-408
  - A Reinforcement Learning Approach to Autonomous Decision Making of Intelligent Vehicles on Highways. Xu, X., +, TSMC Oct. 2020 3884-3897
  - A Review on Intelligence Dehazing and Color Restoration for Underwater Images. Han, M., +, TSMC May 2020 1820-1832
  - A Subspace Learning Approach to Multishot Person Reidentification. Zheng, A., +, TSMC Jan. 2020 149-158
  - Adaptive Critic Learning and Experience Replay for Decentralized Event-Triggered Control of Nonlinear Interconnected Systems. *Yang, X.*, +, *TSMC Nov. 2020 4043-4055*
  - Adaptive Partial Reinforcement Learning Neural Network-Based Tracking Control for Wheeled Mobile Robotic Systems. *Ding, L.*, +, *TSMC July* 2020 2512-2523
  - An Efficient Computing of Correlated Equilibrium for Cooperative Q-Learning-Based Multi-Robot Planning. Sadhu, A.K., +, TSMC Aug. 2020 2779-2794
  - Applying Exponential Family Distribution to Generalized Extreme Learning Machine. Jia, Y, +, TSMC May 2020 1794-1804
  - Automating the Configuration of MapReduce: A Reinforcement Learning Scheme. Mu, T., +, TSMC Nov. 2020 4183-4196
  - Balancing Value Iteration and Policy Iteration for Discrete-Time Control. Luo, B., +, TSMC Nov. 2020 3948-3958
  - Bidirectional Backpropagation. Adigun, O., +, TSMC May 2020 1982-1994
  - Classifying With Adaptive Hyper-Spheres: An Incremental Classifier Based on Competitive Learning. *Li*, *T.*, +, *TSMC April 2020 1218-1229*
  - Collaborative Learning-Based Clustered Support Vector Machine for Modeling of Nonlinear Processes Subject to Noise. *Lu*, *X.*, +, *TSMC Dec. 2020* 5162-5171
  - Compensating Delays and Noises in Motion Control of Autonomous Electric Vehicles by Using Deep Learning and Unscented Kalman Predictor. *Li*, *Y*, +, *TSMC Nov. 2020 4326-4338*
  - Context-Aware Service Provisioning via Agentized and Reconfigurable Multimodel Cooperation for Real-Life IoT-Enabled Smart Home Systems. *Lu, C., TSMC Aug. 2020 2914-2925*
  - Control Change Cause Analysis-Based Bayesian Network Modeling for System Risk Assessment. Yang, Z., +, TSMC Aug. 2020 2958-2968
  - Cross-Modal Zero-Shot-Learning for Tactile Object Recognition. *Liu*, *H*., +, *TSMC July 2020 2466-2474*
  - Data-Driven Fuzzy Modeling Using Restricted Boltzmann Machines and Probability Theory. *de la Rosa, E., +, TSMC July 2020 2316-2326*
  - Data-Driven Guaranteed Cost Control Design via Reinforcement Learning for Linear Systems With Parameter Uncertainties. Wu, H., +, TSMC Nov. 2020 4151-4159
  - Dealing With Large-Scale Spatio-Temporal Patterns in Imitative Interaction Between a Robot and a Human by Using the Predictive Coding Framework. *Hwang, J.*, +, *TSMC May 2020 1918-1931*
  - Deep Reinforced Learning Tree for Spatiotemporal Monitoring With Mobile Robotic Wireless Sensor Networks. *Chen, J.*, +, *TSMC Nov. 2020 4197-*4211
  - Detecting Seam-Carved Image by Extreme Learning Machines Using Patch Analysis Method, Jury Voting, and Combinatorial Fusion. *Cheng, H.*, +, *TSMC May 2020 1850-1864*

- Detection of Power Line Insulator Defects Using Aerial Images Analyzed With Convolutional Neural Networks. *Tao, X.*, +, *TSMC April 2020 1486-1498*
- Deterministic Policy Gradient With Integral Compensator for Robust Quadrotor Control. Wang, Y., +, TSMC Oct. 2020 3713-3725
- Distributed Nonlinear Semiparametric Support Vector Machine for Big Data Applications on Spark Frameworks. *Diaz-Morales, R., +, TSMC Nov. 2020* 4664-4675
- Dynamic Emotion Understanding in Human–Robot Interaction Based on Two-Layer Fuzzy SVR-TS Model. Chen, L., +, TSMC Feb. 2020 490-501
- Event-Driven Guaranteed Cost Control Design for Nonlinear Systems With Actuator Faults via Reinforcement Learning Algorithm. *Zhang, H.*, +, *TSMC Nov. 2020 4135-4150*
- EventiC: A Real-Time Unbiased Event-Based Learning Technique for Complex Systems. Danishvar, M., +, TSMC May 2020 1649-1662
- Fast Exemplar-Based Clustering by Gravity Enrichment Between Data Objects. *Zhang, Y., +, TSMC Aug. 2020 2996-3009*
- Fine-Grained Visual Comparison Based on Relative Attribute Quadratic Discriminant Analysis. *Shi*, *H.*, +, *TSMC June 2020 2113-2119*
- Incorporating Discrete Constraints Into Random Walk-Based Graph Matching. Yang, X., +, TSMC April 2020 1406-1416
- Integral Reinforcement Learning-Based Adaptive NN Control for Continuous-Time Nonlinear MIMO Systems With Unknown Control Directions. *Guo, X.*, +, *TSMC Nov. 2020 4068-4077*
- Interpoint Similarity-Based Uncertainty Measure for Robust Learning. Wang, Y., +, TSMC Dec. 2020 5386-5394
- Laser Beam Pointing Control With Piezoelectric Actuator Model Learning. *Qin, F.*, +, *TSMC March 2020 1024-1034*
- Model-Free  $H_{\infty}$  Optimal Tracking Control of Constrained Nonlinear Systems via an Iterative Adaptive Learning Algorithm. *Hou, J.*, +, *TSMC Nov.* 2020 4097-4108
- Model-Free Optimal Output Regulation for Linear Discrete-Time Lossy Networked Control Systems. *Fan, J.*, +, *TSMC Nov. 2020 4033-4042*
- Multifactorial Genetic Programming for Symbolic Regression Problems. Zhong, J., +, TSMC Nov. 2020 4492-4505
- Multisource Domain Attribute Adaptation Based on Adaptive Multikernel Alignment Learning. *Wang, X., +, TSMC May 2020 1897-1908*
- Online Forecasting of Synchronous Time Series Based on Evolving Linear Models. Jahandari, S., +, TSMC May 2020 1865-1876
- Online Heterogeneous Face Recognition Based on Total-Error-Rate Minimization. Jang, S., +, TSMC April 2020 1286-1299
- Real-Time Recurrent Tactile Recognition: Momentum Batch-Sequential Echo State Networks. *Cao, L.*, +, *TSMC April 2020 1350-1361*
- Reinforcement Learning Neural Network-Based Adaptive Control for State and Input Time-Delayed Wheeled Mobile Robots. *Li*, *S.*, +, *TSMC Nov.* 2020 4171-4182
- Reinforcement Q-Learning Algorithm for H<sub>∞</sub> Tracking Control of Unknown Discrete-Time Linear Systems. *Peng, Y*, +, *TSMC Nov. 2020 4109-4122*
- Research Progress on Intelligent System's Learning, Optimization, and Control—Part II: Online Sparse Kernel Adaptive Algorithm. *Tan, F.*, +, *TSMC Dec. 2020 5369-5385*
- Self-Adaptive Framework for Efficient Stream Data Classification on Storm. Deng, S., +, TSMC Jan. 2020 123-136
- Sparse Proximal Reinforcement Learning via Nested Optimization. Song, T., +, TSMC Nov. 2020 4020-4032
- Surgical Wounds Assessment System for Self-Care. Chen, Y., +, TSMC Dec. 2020 5076-5091
- Time-Variant Graph Classification. Wang, H., +, TSMC Aug. 2020 2883-2896
- Using Stacked Sparse Auto-Encoder and Superpixel CRF for Long-Term Visual Scene Understanding of UGVs. *Qiu, Z.*, +, *TSMC April 2020 1331-1342*
- Value Iteration-Based  $H_{\infty}$  Controller Design for Continuous-Time Nonlinear Systems Subject to Input Constraints. *Zhang, H.*, +, *TSMC Nov. 2020* 3986-3995
- Zero-Shot Learning Based on Deep Weighted Attribute Prediction. *Wang, X.*, +, *TSMC Aug. 2020 2948-2957*

#### Learning systems

- A Humanoid Robot Learns to Recover Perturbation During Swinging Motion. Tran, D.H., +, TSMC Oct. 2020 3701-3712
- Contraction Mapping-Based Robust Convergence of Iterative Learning Control With Uncertain, Locally Lipschitz Nonlinearity. *Meng, D.*, +, *TSMC Feb.* 2020 442-454
- Data-Driven Guaranteed Cost Control Design via Reinforcement Learning for Linear Systems With Parameter Uncertainties. Wu, H., +, TSMC Nov. 2020 4151-4159
- Editorial Special Issue on Adaptive Dynamic Programming and Reinforcement Learning. Liu, D., +, TSMC Nov. 2020 3944-3947
- Event-Triggered Integral Sliding-Mode Control for Nonlinear Constrained-Input Systems With Disturbances via Adaptive Dynamic Programming. Yang, D., +, TSMC Nov. 2020 4086-4096
- Integral Reinforcement Learning-Based Adaptive NN Control for Continuous-Time Nonlinear MIMO Systems With Unknown Control Directions. *Guo, X.*, +, *TSMC Nov. 2020 4068-4077*
- Quantized Data Driven Iterative Learning Control for a Class of Nonlinear Systems With Sensor Saturation. *Bu, X.*, +, *TSMC Dec. 2020 5119-5129*
- Reinforcement Q-Learning Algorithm for H<sub>∞</sub> Tracking Control of Unknown Discrete-Time Linear Systems. Peng, Y, +, TSMC Nov. 2020 4109-4122
- Robust Optimal Control for Disturbed Nonlinear Zero-Sum Differential Games Based on Single NN and Least Squares. *Song, R.*, +, *TSMC Nov.* 2020 4009-4019

## Least mean squares methods

- Optimal Estimation for Discrete-Time Linear System with Communication Constraints and Measurement Quantization. *Ren, H.*, +, *TSMC May 2020* 1932-1942
- Target State and Markovian Jump Ionospheric Height Bias Estimation for OTHR Tracking Systems. *Geng, H.*, +, *TSMC July 2020 2599-2611*

## Least squares approximations

- An I-frame Methodology for Approximating Nonlinear Least Squares. Placek, P.C., +, TSMC April 2020 1362-1371
- Balancing Value Iteration and Policy Iteration for Discrete-Time Control. *Luo*, *B.*, +, *TSMC Nov. 2020 3948-3958*
- Collaborative Learning-Based Clustered Support Vector Machine for Modeling of Nonlinear Processes Subject to Noise. *Lu, X.*, +, *TSMC Dec. 2020* 5162-5171
- Distributed Nonlinear Semiparametric Support Vector Machine for Big Data Applications on Spark Frameworks. *Diaz-Morales, R., +, TSMC Nov. 2020* 4664-4675
- Laser Beam Pointing Control With Piezoelectric Actuator Model Learning. *Qin, F.*, +, *TSMC March 2020 1024-1034*
- Research Progress on Intelligent System's Learning, Optimization, and Control—Part II: Online Sparse Kernel Adaptive Algorithm. Tan, F., +, TSMC Dec. 2020 5369-5385
- Robust Optimal Control for Disturbed Nonlinear Zero-Sum Differential Games Based on Single NN and Least Squares. *Song, R.*, +, *TSMC Nov.* 2020 4009-4019
- Sparse Proximal Reinforcement Learning via Nested Optimization. *Song, T.*, +, *TSMC Nov. 2020 4020-4032*

#### Legged locomotion

- A Theoretical Framework for Stability Regions for Standing Balance of Humanoids Based on Their LIPM Treatment. *Kim, J.H.*, +, *TSMC Nov.* 2020 4569-4586
- Robust Ground Reaction Force Estimation and Control of Lower-Limb Prostheses: Theory and Simulation. Azimi, V., +, TSMC Aug. 2020 3024-3035

# Life cycle costing

A System-of-Systems Approach to the Strategic Feasibility of Modular Vehicle Fleets. *Bayrak, A.E.*, +, *TSMC July 2020 2716-2728* 

#### Linear matrix inequalities

- Adaptive Fault-Tolerant Control of Uncertain Switched Nonaffine Nonlinear Systems With Actuator Faults and Time Delays. *Wu, L.*, +, *TSMC Sept.* 2020 3470-3480
- An Event-Triggered Approach to Sliding Mode Control of Markovian Jump Lur'e Systems Under Hidden Mode Detections. *Song, J.*, +, *TSMC April* 2020 1514-1525

- Consensus of Discrete-Time Multiagent Systems With State, Input, and Communication Delays. *Liu*, Q., +, *TSMC Nov. 2020 4425-4437*
- Consensus of Lipschitz Nonlinear Multiagent Systems With Input Delay via Observer-Based Truncated Prediction Feedback. *Chu, H., +, TSMC Oct.* 2020 3784-3794
- Consensus of Upper-Triangular Multiagent Systems With Sampled and Delayed Measurements via Output Feedback. *Li, F.,* +, *TSMC Feb. 2020* 600-608
- Consensus Seeking in Multiagent Systems With Markovian Switching Topology Under Aperiodic Sampled Data. *Wang, X.*, +, *TSMC Dec. 2020* 5189-5200
- Delta Operator-Based Model Predictive Control With Fault Compensation for Steer-by-Wire Systems. *Huang, C.*, +, *TSMC June 2020 2257-2272*
- Design of Resilient Reliable Dissipativity Control for Systems With Actuator Faults and Probabilistic Time-Delay Signals via Sampled-Data Approach. *Manivannan, R.*, +, *TSMC Nov. 2020 4243-4255*
- Dissipative Fuzzy Tracking Control for Nonlinear Networked Systems With Quantization. Li, Z., +, TSMC Dec. 2020 5130-5141
- Distributed Event-Triggered  $H_{\infty}$  Filtering for Discrete-Time T–S Fuzzy Systems Over Sensor Networks. *Wang, X.*, +, *TSMC Sept. 2020 3269-3280*
- Distributed Fault Estimation for a Class of Nonlinear Multiagent Systems. Liu, X., +, TSMC Sept. 2020 3382-3390
- Dynamic Event-Triggered State Estimation for Discrete-Time Singularly Perturbed Systems With Distributed Time-Delays. *Ma*, *L*., +, *TSMC Sept.* 2020 3258-3268
- Dynamic Output Feedback Asynchronous Control of Networked Markovian Jump Systems. *Liu*, X., +, *TSMC July 2020 2705-2715*
- Error State Convergence on Master–Slave Generalized Uncertain Neural Networks Using Robust Nonlinear  $H_{\infty}$  Control Theory. *Chen, H.*, +, *TSMC June 2020 2042-2055*
- Estimation for a Class of Parameter-Controlled Tunnel Diode Circuits. Chang, X., +, TSMC Nov. 2020 4697-4707
- Estimator-Based H<sub>∞</sub> Sampled-Data Fuzzy Control for Nonlinear Parabolic PDE Systems. Wang, Z., +, TSMC July 2020 2491-2500
- Event-Based Security Control for Stochastic Networked Systems Subject to Attacks. Yan, H., +, TSMC Nov. 2020 4643-4654
- Event-Triggered  $H_{\infty}$  State Estimation of 2-DOF Quarter-Car Suspension Systems With Nonhomogeneous Markov Switching. *Yan, H.,* +, *TSMC Sept. 2020 3320-3329*
- Filtering Design for Multirate Sampled-Data Systems. Li, Z., +, TSMC Nov. 2020 4224-4232
- Finite-Time  $\mathcal{H}_{\infty}$  Controller Synthesis of T–S Fuzzy Systems. *Li*, *Y*, +, *TSMC May 2020 1956-1963*
- Finite-Time Control of Continuous-Time Networked Dynamical Systems. Liu, H., +, TSMC Nov. 2020 4623-4632
- Guaranteed Cost Control of Uncertain Networked Control Systems With a Hybrid Communication Scheme. *Zhang, J.*, +, *TSMC Sept. 2020 3126-3135*
- Interval Observers Design for Polynomial Fuzzy Singular Systems by Utilizing Sum-of-Squares Program. Pang, B., +, TSMC June 2020 1999-2006
- Lagrange Exponential Stability of Complex-Valued BAM Neural Networks With Time-Varying Delays. Zhang, Z., +, TSMC Aug. 2020 3072-3085
- Modified Repetitive Control Design for Nonlinear Systems With Time Delay Based on T–S Fuzzy Model. Sakthivel, R., +, TSMC Feb. 2020 646-655
- Nonfragile  $l_2 l_{\infty}$  Fault Estimation for Markovian Jump 2-D Systems With Specified Power Bounds. *Luo*, Y., +, *TSMC May 2020 1964-1975*
- Nonfragile and Nonsynchronous Synthesis of Reachable Set for Bernoulli Switched Systems. *Che, W.*, +, *TSMC Feb. 2020 726-731*
- Observer-Based Synchronization of Chaotic Systems Satisfying Incremental Quadratic Constraints and Its Application in Secure Communication. *Zhao, Y., +, TSMC Dec. 2020 5221-5232*
- Parameters Variation-Based Synchronization on Derivative Coupled Lur'e Networks. *Tang*, Z., +, *TSMC Dec. 2020 5395-5405*
- Quantized H<sub>∞</sub> Estimator Over Communication Networks for Distributed Generation Units. *Mahmoud*, M.S., +, TSMC March 2020 1134-1146
- Quantized Control for Networked Switched Systems With a More General Switching Rule. *Li*, *J.*, +, *TSMC May 2020 1909-1917*

- Reducing the Conservatism of Stabilization for Discrete-Time Takagi– Sugeno Fuzzy Systems via a New Extended Representation Approach. *Xie*, *X.*, +, *TSMC Nov. 2020 4387-4393*
- Resilient Asynchronous H<sub>∞</sub> Control for Discrete-Time Markov Jump Singularly Perturbed Systems Based on Hidden Markov Model. *Li*, *F*., +, *TSMC Aug.* 2020 2860-2869
- Robust *H*<sub>∞</sub> Guaranteed Cost Time-Varying Formation Tracking for High-Order Multiagent Systems With Time-Varying Delays. *Yu, J.*, +, *TSMC April* 2020 1465-1475
- Sampled-Data Consensus for Multiagent Systems With Time Delays and Packet Losses. Xing, M., +, TSMC Jan. 2020 203-210
- Stability Analysis for Delayed Neural Networks via Some Switching Methods. Li, X., +, TSMC May 2020 1690-1695
- Stability Analysis of T–S Fuzzy Control System With Sampled-Dropouts Based on Time-Varying Lyapunov Function Method. *Wang, Z.*, +, *TSMC July 2020 2566-2577*
- Stability, I<sub>2</sub>-Gain Analysis, and Parity Space-Based Fault Detection for Discrete-Time Switched Systems Under Dwell-Time Switching. Sun, T., +, TSMC Sept. 2020 3358-3368
- Stabilization of Linear Systems With Input Saturation and Large Delay. Li, P., +, TSMC Nov. 2020 4482-4491
- TS Fuzzy Model-Based Controller Design for a Class of Nonlinear Systems Including Nonsmooth Functions. *Vafamand, N.*, +, *TSMC Jan. 2020 233-*244

## Linear parameter varying systems

Dissipativity for Switched LPV Systems and Its Application: A Parameter and Dwell Time-Dependent Multiple Storage Functions Method. *Yang, D.*, +, *TSMC Feb. 2020 502-513* 

#### Linear programming

- A Three-Stage Multiobjective Approach Based on Decomposition for an Energy-Efficient Hybrid Flow Shop Scheduling Problem. *Zhang, B.*, +, *TSMC Dec. 2020 4984-4999*
- Avoiding Critical Members in a Team by Redundant Assignment. Zhu, H., TSMC July 2020 2729-2740
- Dual-Objective Optimization for Lane Reservation With Residual Capacity and Budget Constraints. *Wu*, *P*, +, *TSMC June 2020 2187-2197*
- Efficient Approach to Scheduling of Transient Processes for Time-Constrained Single-Arm Cluster Tools With Parallel Chambers. *Yang, F.*, +, *TSMC Oct. 2020 3646-3657*
- Energy-Efficient Scheduling of Real-Time Tasks in Reconfigurable Homogeneous Multicore Platforms. *Gammoudi*, A., +, TSMC Dec. 2020 5092-5105
- Integrated Network Design of Agile Resource-Efficient Supply Chains Under Uncertainty. Dotoli, M., +, TSMC Nov. 2020 4530-4544
- Liveness Analysis and Deadlock Control for Automated Manufacturing Systems With Multiple Resource Requirements. *Feng, Y.*, +, *TSMC Feb. 2020* 525-538
- Modeling and Optimal Cyclic Scheduling of Time-Constrained Single-Robot-Arm Cluster Tools via Petri Nets and Linear Programming. *Yang, F.*, +, *TSMC March 2020 871-883*

#### Linear quadratic control

- Active Control of Uncertain Seat Suspension System Based on a State and Disturbance Observer. *Lathkar, M.S.*, +, *TSMC March 2020 840-850*
- Improved Control for Industrial Systems Over Model Uncertainty: A Receding Horizon Expanded State Space Control Approach. Zhang, R., TSMC April 2020 1343-1349
- Improved Minmax Control for Industrial Networked Systems Over Imperfect Communication. Jin, Q., +, TSMC April 2020 1310-1317

#### Linear systems

- $\mathcal{H}_{\infty}$  PID Control With Fading Measurements: The Output-Feedback Case. *Zhao, D.,* +, *TSMC June 2020 2170-2180*
- A Theoretical Framework for Stability Regions for Standing Balance of Humanoids Based on Their LIPM Treatment. *Kim, J.H.*, +, *TSMC Nov.* 2020 4569-4586
- Adaptive Fault-Tolerant Compensation Control and Its Application to Nonlinear Suspension Systems. Pan, H., +, TSMC May 2020 1766-1776

- Adaptive Fault-Tolerant Compensation Control for T–S Fuzzy Systems With Mismatched Parameter Uncertainties. *Yan, J.*, +, *TSMC Sept. 2020 3412-3423*
- Adaptive Stabilization of Discrete-Time Nonminimum Phase Systems. *Que,* H., +, TSMC Aug. 2020 2828-2833
- An Event-Triggered Approach to Sliding Mode Control of Markovian Jump Lur'e Systems Under Hidden Mode Detections. *Song, J.*, +, *TSMC April* 2020 1514-1525
- An Industrial-Based Framework for Distributed Control of Heterogeneous Network Systems. *Wu, Y.*, +, *TSMC June 2020 2120-2128*
- Co-Design of Finite-Time Convergence and Noise Suppression: A Unified Neural Model for Time Varying Linear Equations With Robotic Applications. *Xiao, L., +, TSMC Dec. 2020 5233-5243*
- Consensus Seeking in Multiagent Systems With Markovian Switching Topology Under Aperiodic Sampled Data. *Wang, X.*, +, *TSMC Dec. 2020* 5189-5200
- Continuous and Discrete Zeroing Neural Network for Different-Level Dynamic Linear System With Robot Manipulator Control. *Li*, *J.*, +, *TSMC Nov.* 2020 4633-4642
- Data-Driven Guaranteed Cost Control Design via Reinforcement Learning for Linear Systems With Parameter Uncertainties. *Wu, H.*, +, *TSMC Nov.* 2020 4151-4159
- Distributed Consensus of Linear Multiagent Systems: Laplacian Spectra-Based Method. Chen, Y., +, TSMC Feb. 2020 700-706
- Distributed Fault Detection and Isolation for Multiagent Systems: An Interval Observer Approach. Zhang, Z., +, TSMC June 2020 2220-2230
- Distributed Observer-Based Consensus Over Directed Networks With Limited Communication Bandwidth Constraints. *Rong, L.*, +, *TSMC Dec. 2020* 5361-5368
- Distributed Optimal Steady-State Regulation for High-Order Multiagent Systems With External Disturbances. *Tang, Y., TSMC Nov. 2020 4828-*4835
- Distributed PI Control for Consensus of Heterogeneous Multiagent Systems Over Directed Graphs. Lv, Y, +, TSMC April 2020 1602-1609
- Error State Convergence on Master–Slave Generalized Uncertain Neural Networks Using Robust Nonlinear H<sub>∞</sub> Control Theory. *Chen, H.*, +, *TSMC June 2020 2042-2055*
- Event-Triggered  $H_{\infty}$  State Estimation of 2-DOF Quarter-Car Suspension Systems With Nonhomogeneous Markov Switching. Yan, H., +, TSMC Sept. 2020 3320-3329
- Event-Triggered and Self-Triggered  $H_{\infty}$  Control of Uncertain Switched Linear Systems. *Qi*, *Y*, +, *TSMC April 2020 1442-1454*
- Fault-Tolerant Control for Systems With Model Uncertainty and Multiplicative Faults. Zhao, Z., +, TSMC Feb. 2020 514-524
- Finite-Time Control of Continuous-Time Networked Dynamical Systems. Liu, H., +, TSMC Nov. 2020 4623-4632
- Model-Free Optimal Output Regulation for Linear Discrete-Time Lossy Networked Control Systems. *Fan, J.*, +, *TSMC Nov. 2020 4033-4042*
- Nonfragile *l*<sub>2</sub> −*l*<sub>∞</sub> Fault Estimation for Markovian Jump 2-D Systems With Specified Power Bounds. *Luo*, *Y*., +, *TSMC May 2020 1964-1975*
- Observer-Based Adaptive Sliding Mode Control for T–S Fuzzy Singular Systems. Sun, X., +, TSMC Nov. 2020 4438-4446
- Optimal Estimation for Discrete-Time Linear System with Communication Constraints and Measurement Quantization. *Ren, H.*, +, *TSMC May 2020* 1932-1942
- Performance Improvement of Consensus Tracking for Linear Multiagent Systems With Input Saturation: A Gain Scheduled Approach. *Chu, H.*, +, *TSMC March 2020 734-746*
- Reinforcement Q-Learning Algorithm for H<sub>∞</sub> Tracking Control of Unknown Discrete-Time Linear Systems. *Peng, Y.*, +, *TSMC Nov. 2020 4109-4122*
- Resilient Asynchronous  $H_{\infty}$  Control for Discrete-Time Markov Jump Singularly Perturbed Systems Based on Hidden Markov Model. *Li*, *F.*, +, *TSMC Aug.* 2020 2860-2869
- Robust  $H_{\infty}$  Guaranteed Cost Time-Varying Formation Tracking for High-Order Multiagent Systems With Time-Varying Delays. *Yu, J.*, +, *TSMC April* 2020 1465-1475

- Robust Adaptive Fault-Tolerant Tracking Control for Uncertain Linear Systems With Actuator Failures Based on the Closed-Loop Reference Model. *Xiao, S.*, +, *TSMC Sept. 2020 3448-3455*
- Sampled-Data Consensus for Multiagent Systems With Time Delays and Packet Losses. Xing, M., +, TSMC Jan. 2020 203-210
- Sampled-Data Synchronization of Network Systems in Industrial Manufacture. *Wu, Y., +, TSMC Sept. 2020 3210-3219*
- Self-Triggered and Event-Triggered Control for Linear Systems With Quantization. Zhou, T., +, TSMC Sept. 2020 3136-3144
- Self-Triggered State-Feedback Control for Stochastic Nonlinear Systems With Markovian Switching. Xie, W., +, TSMC Sept. 2020 3200-3209
- Stability and *l*<sub>2</sub> -Gain Analysis of Discrete-Time Switched Systems with Mode-Dependent Average Dwell Time. *Liu*, *L*., +, *TSMC June 2020 2305-2314*
- Stability, l<sub>2</sub>-Gain Analysis, and Parity Space-Based Fault Detection for Discrete-Time Switched Systems Under Dwell-Time Switching. Sun, T., +, TSMC Sept. 2020 3358-3368
- Stabilization of Linear Systems With Input Saturation and Large Delay. Li, P., +, TSMC Nov. 2020 4482-4491
- Structural Sparsity in Networked Control Systems. Florez, A.J., +, TSMC Dec. 2020 5152-5161

## Linearization techniques

- On the Solvability of Feedback Complete Linearization of Nonlinear Stochastic Systems. *Beheshtipour, Z., +, TSMC March 2020 1074-1082*
- Prescribed Performance Controller Design for DC Converter System With Constant Power Loads in DC Microgrid. *Xu*, *X*., +, *TSMC Nov. 2020 4339-4348*

#### Load regulation

Co-Design of Distributed Model-Based Control and Event-Triggering Scheme for Load Frequency Regulation in Smart Grids. *Liu, S.*, +, *TSMC Sept. 2020 3311-3319* 

#### Logistics

- Guest Editorial to the Special Issue on Logistics and Supply Chain Systems Engineering. *Choi, T., TSMC Dec. 2020 4852-4855*
- Optimal CSR and Pricing Decisions With Risk-Averse Providers in a Competitive Shipping System. *Zheng, W.*, +, *TSMC Dec. 2020 4959-4973*
- Optimal Pricing Decisions of Competing Air-Cargo-Carrier Systems— Impacts of Risk Aversion, Demand, and Cost Uncertainties. *Wen, X.*, +, *TSMC Dec. 2020 4933-4947*

#### Low-pass filters

Co-Design of Finite-Time Convergence and Noise Suppression: A Unified Neural Model for Time Varying Linear Equations With Robotic Applications. *Xiao*, L., +, *TSMC Dec. 2020 5233-5243* 

## Lyapunov matrix equations

Reducing the Conservatism of Stabilization for Discrete-Time Takagi– Sugeno Fuzzy Systems via a New Extended Representation Approach. *Xie*, *X.*, +, *TSMC Nov. 2020 4387-4393* 

#### Lyapunov methods

- $\mathcal{H}_{\infty}$  PID Control With Fading Measurements: The Output-Feedback Case. *Zhao, D.,* +, *TSMC June 2020 2170-2180*
- *H*<sub>∞</sub> Reliable Bumpless Transfer Control for Switched Systems With State and Rate Constraints. *Zhao, Y.,* +, *TSMC Oct. 2020 3925-3935*
- A Hybrid Proportional Impulsive Plus Integral Robust Control Algorithm for H∞ Stabilization. *Chen, H.*, +, *TSMC Dec. 2020 5211-5220*
- A Robust Adaptive Model Reference Impedance Control of a Robotic Manipulator With Actuator Saturation. *Arefinia, E., +, TSMC Feb. 2020* 409-420
- A Theoretical Framework for Stability Regions for Standing Balance of Humanoids Based on Their LIPM Treatment. *Kim, J.H.*, +, *TSMC Nov.* 2020 4569-4586
- Adaptive Backstepping Hybrid Fuzzy Sliding Mode Control for Uncertain Fractional-Order Nonlinear Systems Based on Finite-Time Scheme. *Song*, *S.*, +, *TSMC April 2020 1559-1569*
- Adaptive Critic Learning and Experience Replay for Decentralized Event-Triggered Control of Nonlinear Interconnected Systems. *Yang, X.*, +, *TSMC Nov. 2020 4043-4055*

- Adaptive Dynamic Programming for Decentralized Stabilization of Uncertain Nonlinear Large-Scale Systems With Mismatched Interconnections. *Yang, X., +, TSMC Aug. 2020 2870-2882*
- Adaptive Dynamics Programming for  $H_{\infty}$  Control of Continuous-Time Unknown Nonlinear Systems via Generalized Fuzzy Hyperbolic Models. Su, H., +, TSMC Nov. 2020 3996-4008
- Adaptive Fault-Tolerant Compensation Control for T–S Fuzzy Systems With Mismatched Parameter Uncertainties. *Yan, J.*, +, *TSMC Sept. 2020 3412-3423*
- Adaptive Fault-Tolerant Control of Uncertain Switched Nonaffine Nonlinear Systems With Actuator Faults and Time Delays. *Wu, L.*, +, *TSMC Sept.* 2020 3470-3480
- Adaptive Fuzzy Fault-Tolerant Tracking Control of Uncertain Nonlinear Time-Varying Delay Systems. Zhai, D., +, TSMC May 2020 1840-1849
- Adaptive Fuzzy Tracking Control of Nonlinear Switched Stochastic Systems With Prescribed Performance and Unknown Control Directions. *Liu*, *Y*, +, *TSMC Feb. 2020 590-599*
- Adaptive Neural Network Control for a Class of Nonlinear Systems With Unknown Control Direction. Wang, C., +, TSMC Nov. 2020 4708-4718
- Adaptive Partial Reinforcement Learning Neural Network-Based Tracking Control for Wheeled Mobile Robotic Systems. *Ding, L.*, +, *TSMC July* 2020 2512-2523
- ADP-Based Robust Tracking Control for a Class of Nonlinear Systems With Unmatched Uncertainties. *Mu, C.*, +, *TSMC Nov. 2020 4056-4067*
- An Event-Triggered Approach to Sliding Mode Control of Markovian Jump Lur'e Systems Under Hidden Mode Detections. *Song, J.*, +, *TSMC April* 2020 1514-1525
- Asynchronous Quasi-Consensus of Heterogeneous Multiagent Systems With Nonuniform Input Delays. Wang, Z., +, TSMC Aug. 2020 2815-2827
- Barrier Lyapunov Functions-Based Adaptive Fault Tolerant Control for Flexible Hypersonic Flight Vehicles With Full State Constraints. *Yuan, Y.*, +, *TSMC Sept. 2020 3391-3400*
- Consensus of Lipschitz Nonlinear Multiagent Systems With Input Delay via Observer-Based Truncated Prediction Feedback. *Chu, H., +, TSMC Oct.* 2020 3784-3794
- Consensus of Upper-Triangular Multiagent Systems With Sampled and Delayed Measurements via Output Feedback. *Li, F.,* +, *TSMC Feb. 2020* 600-608
- Consensus Seeking in Multiagent Systems With Markovian Switching Topology Under Aperiodic Sampled Data. *Wang, X.*, +, *TSMC Dec. 2020* 5189-5200
- Consensus Tracking Control for Distributed Nonlinear Multiagent Systems via Adaptive Neural Backstepping Approach. *Shang, Y*, +, *TSMC July 2020 2436-2444*
- Contraction Mapping-Based Robust Convergence of Iterative Learning Control With Uncertain, Locally Lipschitz Nonlinearity. *Meng, D.*, +, *TSMC Feb.* 2020 442-454
- Control Strategy Based on Model Reduction and Online Intelligent Calculation for Planar *n*-Link Underactuated Manipulators. *Wang, Y.*, +, *TSMC March 2020 1046-1054*
- Decentralized Adaptive NN Output-Feedback Fault Compensation Control of Nonlinear Switched Large-Scale Systems With Actuator Dead-Zones. *Ma*, *Z*., +, *TSMC Sept. 2020 3435-3447*
- Delay-Hybrid-Dependent Stability for Systems With Large Delays. Sun, X., +, TSMC July 2020 2752-2759
- Delta Operator-Based Model Predictive Control With Fault Compensation for Steer-by-Wire Systems. *Huang, C.*, +, *TSMC June 2020 2257-2272*
- Design of Resilient Reliable Dissipativity Control for Systems With Actuator Faults and Probabilistic Time-Delay Signals via Sampled-Data Approach. *Manivannan, R.*, +, *TSMC Nov. 2020 4243-4255*
- Design of Robust Sliding Mode Control With Adaptive Reaching Law. *Han, H.*, +, *TSMC Nov. 2020 4415-4424*
- Dissipativity Analysis for Singular Time-Delay Systems Via State Decomposition Method. *Zhi*, *Y*, +, *TSMC Oct. 2020 3936-3942*
- Distributed Adaptive FBC of Uncertain Nonaffine Multiagent Systems Preceded by Unknown Input Nonlinearities With Unknown Gain Sign. Shahnazi, R., +, TSMC Aug. 2020 3036-3046

- Distributed Event-Triggered  $H_{\infty}$  Filtering for Discrete-Time T–S Fuzzy Systems Over Sensor Networks. *Wang, X.*, +, *TSMC Sept. 2020 3269-3280*
- Distributed Fault Estimation for a Class of Nonlinear Multiagent Systems. Liu, X., +, TSMC Sept. 2020 3382-3390
- Distributed PI Control for Consensus of Heterogeneous Multiagent Systems Over Directed Graphs. Lv, Y, +, TSMC April 2020 1602-1609
- Distributed Voltage Regulation for Cyber-Physical Microgrids With Coupling Delays and Slow Switching Topologies. *Lai*, *J.*, +, *TSMC Jan. 2020 100-110*
- Disturbance-Observer-Based Fault Tolerant Control of High-Speed Trains: A Markovian Jump System Model Approach. *Yao, X.*, +, *TSMC April 2020* 1476-1485
- Dynamic Event-Triggered State Estimation for Discrete-Time Singularly Perturbed Systems With Distributed Time-Delays. Ma, L., +, TSMC Sept. 2020 3258-3268
- Dynamic Output Feedback Asynchronous Control of Networked Markovian Jump Systems. Liu, X., +, TSMC July 2020 2705-2715
- Error State Convergence on Master–Slave Generalized Uncertain Neural Networks Using Robust Nonlinear H<sub>∞</sub> Control Theory. *Chen, H.*, +, *TSMC June 2020 2042-2055*
- Error-Driven Nonlinear Feedback Design for Fuzzy Adaptive Dynamic Surface Control of Nonlinear Systems With Prescribed Tracking Performance. *Dong, H.*, +, *TSMC March 2020 1013-1023*
- Estimator-Based H<sub>∞</sub> Sampled-Data Fuzzy Control for Nonlinear Parabolic PDE Systems. Wang, Z., +, TSMC July 2020 2491-2500
- Event-Driven Guaranteed Cost Control Design for Nonlinear Systems With Actuator Faults via Reinforcement Learning Algorithm. *Zhang, H.*, +, *TSMC Nov. 2020 4135-4150*
- Event-Triggered  $H_{\infty}$  State Estimation of 2-DOF Quarter-Car Suspension Systems With Nonhomogeneous Markov Switching. *Yan, H.,* +, *TSMC Sept.* 2020 3320-3329
- Event-Triggered Integral Sliding-Mode Control for Nonlinear Constrained-Input Systems With Disturbances via Adaptive Dynamic Programming. *Yang, D.*, +, *TSMC Nov. 2020 4086-4096*
- Event-Triggered Robust Stabilization of Nonlinear Input-Constrained Systems Using Single Network Adaptive Critic Designs. *Yang, X.*, +, *TSMC Sept. 2020 3145-3157*
- Exponential Finite-Time Consensus of Fractional-Order Multiagent Systems. Liu, H., +, TSMC April 2020 1549-1558
- Finite-Time  $\mathcal{H}_{\infty}$  Controller Synthesis of T–S Fuzzy Systems. *Li*, *Y*, +, *TSMC May 2020 1956-1963*
- Finite-Time Adaptive Fuzzy Decentralized Control for Nonstrict-Feedback Nonlinear Systems With Output-Constraint. *Li*, *K.*, +, *TSMC Dec. 2020* 5271-5284
- Fixed-Time Sliding Mode Disturbance Observer-Based Nonsmooth Backstepping Control for Hypersonic Vehicles. *Sun, J.*, +, *TSMC Nov. 2020* 4377-4386
- Fuzzy Adaptive Output Feedback Control for MIMO Switched Nontriangular Structure Nonlinear Systems With Unknown Control Directions. *Huang, L.*, +, *TSMC Feb. 2020 550-564*
- Fuzzy Adaptive Quantized Fault-Tolerant Control of Strict-Feedback Nonlinear Systems With Mismatched External Disturbances. *Jing, Y.*, +, *TSMC Sept. 2020 3424-3434*
- Integral Reinforcement Learning-Based Adaptive NN Control for Continuous-Time Nonlinear MIMO Systems With Unknown Control Directions. *Guo, X.*, +, *TSMC Nov. 2020 4068-4077*
- Interval Observers Design for Polynomial Fuzzy Singular Systems by Utilizing Sum-of-Squares Program. Pang, B., +, TSMC June 2020 1999-2006
- Lagrange Exponential Stability of Complex-Valued BAM Neural Networks With Time-Varying Delays. *Zhang, Z.*, +, *TSMC Aug. 2020 3072-3085*
- Leader-Following Consensus for a Class of Nonlinear Strick-Feedback Multiagent Systems With State Time-Delays. *Chen, K.*, +, *TSMC July 2020* 2351-2361
- Modified Repetitive Control Design for Nonlinear Systems With Time Delay Based on T–S Fuzzy Model. Sakthivel, R., +, TSMC Feb. 2020 646-655

- Multiple Lagrange Stability Under Perturbation for Recurrent Neural Networks With Time-Varying Delays. *Zhang, F., +, TSMC June 2020 2029-*2041
- Multistability of Recurrent Neural Networks With Piecewise-Linear Radial Basis Functions and State-Dependent Switching Parameters. *Guo, Z.*, +, *TSMC Nov. 2020 4458-4471*
- Neural Network-Based Adaptive Control for Pure-Feedback Stochastic Nonlinear Systems With Time-Varying Delays and Dead-Zone Input. *Li*, *Z.*, +, *TSMC Dec. 2020 5317-5329*
- Neural Networks-Based Active Fault-Tolerant Control for a Class of Switched Nonlinear Systems With Its Application to RCL Circuit. *Tang, L.,* +, *TSMC Nov. 2020 4270-4282*
- Nonfragile  $l_2 l_{\infty}$  Fault Estimation for Markovian Jump 2-D Systems With Specified Power Bounds. *Luo*, Y., +, *TSMC May 2020 1964-1975*
- Observer-Based Integral Sliding Mode Tracking Control for a Pneumatic Cylinder With Varying Loads. *Zhao, L.*, +, *TSMC July 2020 2650-2658*
- Parameters Variation-Based Synchronization on Derivative Coupled Lur'e Networks. *Tang, Z.*, +, *TSMC Dec. 2020 5395-5405*
- Partial State Constraints-Based Control for Nonlinear Systems With Backlash-Like Hysteresis. Liu, L., +, TSMC Aug. 2020 3100-3104
- Passivity-Based Robust Sampled-Data Control for Markovian Jump Systems. Chen, G., +, TSMC July 2020 2671-2684
- Perimeter Control of Multiregion Urban Traffic Networks With Time-Varying Delays. Wan, Y, +, TSMC Aug. 2020 2795-2803
- Pinning a Complex Network to Follow a Target System With Predesigned Control Inputs. *Wen, G., +, TSMC June 2020 2293-2304*
- Practical Regulation of Nonholonomic Systems Using Virtual Trajectories and LaSalle Invariance Principle. *Zhang, D.*, +, *TSMC May 2020 1833-1839*
- Practically Finite-Time Control for Nonlinear Systems With Mismatching Conditions and Application to a Robot System. *Min, H.*, +, *TSMC Feb.* 2020 480-489
- Prescribed Performance Tracking Control of a Class of Uncertain Pure-Feedback Nonlinear Systems With Input Saturation. *Yang, Y.*, +, *TSMC May* 2020 1733-1745
- Quantized Control for Networked Switched Systems With a More General Switching Rule. *Li*, *J.*, +, *TSMC May 2020 1909-1917*
- Realization of Exact Tracking Control for Nonlinear Systems via a Nonrecursive Dynamic Design. Zhang, C., +, TSMC Feb. 2020 577-589
- Reducing the Conservatism of Stabilization for Discrete-Time Takagi– Sugeno Fuzzy Systems via a New Extended Representation Approach. *Xie*, *X.*, +, *TSMC Nov. 2020 4387-4393*
- Reinforcement Learning Neural Network-Based Adaptive Control for State and Input Time-Delayed Wheeled Mobile Robots. *Li*, *S.*, +, *TSMC Nov.* 2020 4171-4182
- Reliable Leader-to-Follower Formation Control of Multiagent Systems Under Communication Quantization and Attacks. *Huang, X.*, +, *TSMC Jan. 2020 89-99*
- Resilient Asynchronous  $H_{\infty}$  Control for Discrete-Time Markov Jump Singularly Perturbed Systems Based on Hidden Markov Model. *Li*, *F.*, +, *TSMC Aug.* 2020 2860-2869
- Robust Ground Reaction Force Estimation and Control of Lower-Limb Prostheses: Theory and Simulation. Azimi, V., +, TSMC Aug. 2020 3024-3035
- Robust Optimal Control Scheme for Unknown Constrained-Input Nonlinear Systems via a Plug-n-Play Event-Sampled Critic-Only Algorithm. Zhang, H., +, TSMC Sept. 2020 3169-3180
- Sampled-Data Consensus for Multiagent Systems With Time Delays and Packet Losses. Xing, M., +, TSMC Jan. 2020 203-210
- Self-Triggered State-Feedback Control for Stochastic Nonlinear Systems With Markovian Switching. Xie, W., +, TSMC Sept. 2020 3200-3209
- Stability Analysis for Delayed Neural Networks via Some Switching Methods. Li, X., +, TSMC May 2020 1690-1695
- Stability Analysis for Homogeneous Hybrid Systems With Delays. He, Y, +, TSMC Oct. 2020 3554-3561
- Stability Analysis of T–S Fuzzy Control System With Sampled-Dropouts Based on Time-Varying Lyapunov Function Method. *Wang, Z.*, +, *TSMC July 2020 2566-2577*

- Stability and *l*<sub>2</sub> -Gain Analysis of Discrete-Time Switched Systems with Mode-Dependent Average Dwell Time. *Liu*, *L*., +, *TSMC June 2020 2305-2314*
- Stability and Robust Stability of Stochastic Reaction–Diffusion Neural Networks With Infinite Discrete and Distributed Delays. *Sheng, Y.*, +, *TSMC May 2020 1721-1732*
- Stability, l<sub>2</sub>-Gain Analysis, and Parity Space-Based Fault Detection for Discrete-Time Switched Systems Under Dwell-Time Switching. Sun, T., +, TSMC Sept. 2020 3358-3368
- Stabilization of Canonical Systems via Adaptive Chattering Free Sliding Modes With No Singularity Problems. *Aghababa, M.P., TSMC May 2020* 1696-1703
- Stabilization of Linear Systems With Input Saturation and Large Delay. Li, P., +, TSMC Nov. 2020 4482-4491
- Synchronization Control for Neutral Stochastic Delay Markov Networks via Single Pinning Impulsive Strategy. *Chen, H., +, TSMC Dec. 2020 5406-5419*
- TS Fuzzy Model-Based Controller Design for a Class of Nonlinear Systems Including Nonsmooth Functions. *Vafamand, N.*, +, *TSMC Jan. 2020 233-*244

# Μ

## Machine bearings

Multidomain Features-Based GA Optimized Artificial Immune System for Bearing Fault Detection. *Abid*, A., +, *TSMC Jan. 2020 348-359* 

## Macroeconomics

An Innovative Sentiment Analysis to Measure Herd Behavior. Ren, R., +, TSMC Oct. 2020 3841-3851

## Magnetic actuators

#### Maintenance engineering

- A Self-Repairing Algorithm With Optimal Repair Path for Maintaining Motion Synchronization of Mobile Robot Network. *Liu, Z.*, +, *TSMC March* 2020 815-828
- A System-of-Systems Approach to the Strategic Feasibility of Modular Vehicle Fleets. *Bayrak, A.E.*, +, *TSMC July 2020 2716-2728*
- Joint Energy, Maintenance, and Throughput Modeling for Sustainable Manufacturing Systems. *Sun, Z., +, TSMC June 2020 2101-2112*
- Online Rail Surface Inspection Utilizing Spatial Consistency and Continuity. Gan, J., +, TSMC July 2020 2741-2751
- Performability Evaluation of Water Distribution Systems During Maintenance Procedures. Carnevali, L., +, TSMC May 2020 1704-1720

### **Manipulator dynamics**

A New Repetitive Motion Planning Scheme With Noise Suppression Capability for Redundant Robot Manipulators. *Li*, *Z*., +, *TSMC Dec. 2020 5244-5254* 

Control Strategy Based on Model Reduction and Online Intelligent Calculation for Planar *n*-Link Underactuated Manipulators. *Wang, Y.*, +, *TSMC March* 2020 1046-1054

### Manipulator kinematics

Haptic Tele-Driving of Wheeled Mobile Robots Under Nonideal Wheel Rolling, Kinematic Control and Communication Time Delay. *Li, W.*, +, *TSMC Jan. 2020 336-347* 

### Manipulators

A Robust Adaptive Model Reference Impedance Control of a Robotic Manipulator With Actuator Saturation. *Arefinia, E., +, TSMC Feb. 2020* 409-420

- Co-Design of Finite-Time Convergence and Noise Suppression: A Unified Neural Model for Time Varying Linear Equations With Robotic Applications. *Xiao, L., +, TSMC Dec. 2020 5233-5243*
- Continuous and Discrete Zeroing Neural Network for Different-Level Dynamic Linear System With Robot Manipulator Control. *Li*, *J.*, +, *TSMC Nov. 2020 4633-4642*

Distributed Fault Estimation for a Class of Nonlinear Multiagent Systems. Liu, X., +, TSMC Sept. 2020 3382-3390 Stabilization of Canonical Systems via Adaptive Chattering Free Sliding Modes With No Singularity Problems. Aghababa, M.P., TSMC May 2020 1696-1703

## Manufacturing

Special Issue on Recent Advances in Petri Nets, Automata, and Discrete-Event Hybrid Systems. *Wisniewski, R.*, +, *TSMC Oct. 2020 3484-3487* 

## Manufacturing data processing

Data-Driven Analysis for RFID-Enabled Smart Factory: A Case Study. *Feng, J.*, +, *TSMC Jan. 2020 81-88* 

ManuChain: Combining Permissioned Blockchain With a Holistic Optimization Model as Bi-Level Intelligence for Smart Manufacturing. *Leng, J.*, +, *TSMC Jan. 2020 182-192* 

## **Manufacturing industries**

Joint Energy, Maintenance, and Throughput Modeling for Sustainable Manufacturing Systems. *Sun, Z.*, +, *TSMC June 2020 2101-2112* 

## Manufacturing systems

- A Distributed Control Approach to Automated Manufacturing Systems With Complex Routes and Operations Using Petri Nets. *Yang, Y.*, +, *TSMC Oct.* 2020 3670-3684
- A Novel Rescheduling Method for Dynamic Semiconductor Manufacturing Systems. *Qiao, F., +, TSMC May 2020 1679-1689*
- A Robust Control Approach to Automated Manufacturing Systems Allowing Multitype and Multiquantity of Resources With Petri Nets. *Wang, X.*, +, *TSMC Oct. 2020 3499-3514*
- A Robust Control Approach to Automated Manufacturing Systems Combining Absorbing and Distributing Characteristics. *Wang, X.*, +, *TSMC Dec.* 2020 5024-5036
- Data-Driven Analysis for RFID-Enabled Smart Factory: A Case Study. Feng, J., +, TSMC Jan. 2020 81-88
- Discrete-Event-Based Deterministic Execution Semantics With Timestamps for Industrial Cyber-Physical Systems. *Dai, W.*, +, *TSMC March 2020 851-862*
- Information Sharing in a Supply Chain With a Coopetitive Contract Manufacturer. Wang, J., +, TSMC May 2020 1777-1793
- Joint Energy, Maintenance, and Throughput Modeling for Sustainable Manufacturing Systems. *Sun, Z., +, TSMC June 2020 2101-2112*
- Liveness Analysis and Deadlock Control for Automated Manufacturing Systems With Multiple Resource Requirements. *Feng, Y.*, +, *TSMC Feb. 2020* 525-538
- On Hierarchical Construction of the State Space of an Automated Manufacturing System Modeled With Petri Nets. *Karoui, O.*, +, *TSMC Oct. 2020* 3613-3627
- Robust Deadlock Prevention for Automated Manufacturing Systems With Unreliable Resources by Using General Petri Nets. *Feng, Y.*, +, *TSMC Oct.* 2020 3515-3527

## Marine control

Toward a Maneuverable Miniature Robotic Fish Equipped With a Novel Magnetic Actuator System. *Chen, X.,* +, *TSMC July 2020 2327-2337* 

### Marine power systems

A Belief Rule-Based Expert System for Fault Diagnosis of Marine Diesel Engines. Xu, X., +, TSMC Feb. 2020 656-672

### Marine robots

Toward a Maneuverable Miniature Robotic Fish Equipped With a Novel Magnetic Actuator System. *Chen, X.,* +, *TSMC July 2020 2327-2337* 

### Marine systems

Context-Aware Dynamic Asset Allocation for Maritime Interdiction Operations. Sidoti, D., +, TSMC March 2020 1055-1073

### Marine vehicles

Target Following and Close Monitoring Using an Unmanned Surface Vehicle. *Kim, J., TSMC Nov. 2020 4233-4242* 

## Marketing

Coordination and Enhancement Schemes for Quick Response Mass Customization Supply Chains With Consumer Returns and Salvage Value Considerations. *Guo, S.*, +, *TSMC Feb. 2020 673-685* 

### Markov processes

Toward a Maneuverable Miniature Robotic Fish Equipped With a Novel Magnetic Actuator System. Chen, X., +, TSMC July 2020 2327-2337

A Reinforcement Learning Approach to Autonomous Decision Making of Intelligent Vehicles on Highways. Xu, X., +, TSMC Oct. 2020 3884-3897

- Adaptive Fault-Tolerant Compensation Control and Its Application to Nonlinear Suspension Systems. Pan, H., +, TSMC May 2020 1766-1776
- Consensus Seeking in Multiagent Systems With Markovian Switching Topology Under Aperiodic Sampled Data. *Wang, X.*, +, *TSMC Dec. 2020* 5189-5200
- Control Design for Bounded Partially Controlled TPNs Using Timed Extended Reachability Graphs and MDP. Lefebvre, D., +, TSMC June 2020 2273-2283
- Diagnosis of Structural and Temporal Faults for *k*-Bounded Non-Markovian Stochastic Petri Nets. *Lefebvre, D.,* +, *TSMC Sept. 2020 3369-3381*
- Disturbance-Observer-Based Fault Tolerant Control of High-Speed Trains: A Markovian Jump System Model Approach. *Yao, X.*, +, *TSMC April 2020* 1476-1485
- Event-Triggered  $H_{\infty}$  State Estimation of 2-DOF Quarter-Car Suspension Systems With Nonhomogeneous Markov Switching. *Yan, H.,* +, *TSMC Sept. 2020 3320-3329*
- Finite-Horizon  $H_{\infty}$  State Estimation for Time-Varying Neural Networks with Periodic Inner Coupling and Measurements Scheduling. Xu, Y, +, TSMC Jan. 2020 211-219
- Finite-Horizon Distributed State Estimation Under Randomly Switching Topologies and Redundant Channels. Dong, H., +, TSMC Aug. 2020 2938-2947
- Layered Behavior Modeling via Combining Descriptive and Prescriptive Approaches: A Case Study of Infantry Company Engagement. *Bae, J.W.*, +, *TSMC July 2020 2551-2565*
- Markov Modeling and Analysis of Team Communication. Martinez Ayala, D.F., +, TSMC April 2020 1230-1241
- Modeling and Analysis of Patient Transitions in Community Hospitals: A Systems Approach. Lee, H.K., +, TSMC Feb. 2020 686-699
- N-Step MPC for Systems With Persistent Bounded Disturbances Under SCP. Song, Y., +, TSMC Nov. 2020 4762-4772
- Nonfragile *l*<sub>2</sub> –*l*<sub>∞</sub> Fault Estimation for Markovian Jump 2-D Systems With Specified Power Bounds. *Luo*, *Y*., +, *TSMC May 2020 1964-1975*
- Optimal Estimation for Discrete-Time Linear System with Communication Constraints and Measurement Quantization. *Ren, H.*, +, *TSMC May 2020* 1932-1942
- Passivity-Based Robust Sampled-Data Control for Markovian Jump Systems. Chen, G., +, TSMC July 2020 2671-2684
- Quantitative Modeling and Analytical Calculation of Anelasticity for a Cyber-Physical System. *Gong, H., +, TSMC Nov. 2020 4746-4761*
- Robust Science-Optimal Spacecraft Control for Circular Orbit Missions. Nasir, A., +, TSMC March 2020 923-934
- Self-Triggered State-Feedback Control for Stochastic Nonlinear Systems With Markovian Switching. Xie, W., +, TSMC Sept. 2020 3200-3209
- Synchronization Control for Neutral Stochastic Delay Markov Networks via Single Pinning Impulsive Strategy. *Chen, H.*, +, *TSMC Dec. 2020 5406-5419*
- Target State and Markovian Jump Ionospheric Height Bias Estimation for OTHR Tracking Systems. *Geng, H., +, TSMC July 2020 2599-2611*

#### Mass production

Coordination and Enhancement Schemes for Quick Response Mass Customization Supply Chains With Consumer Returns and Salvage Value Considerations. *Guo, S.*, +, *TSMC Feb. 2020 673-685* 

## Mathematical analysis

A Study of Product Quality and Marketing Efforts in Closed-Loop Supply Chains With Remanufacturing. *Chen, C.,* +, *TSMC Dec. 2020 4870-4881* Multiple-Solution Optimization Strategy for Multirobot Task Allocation.

## Huang, L., +, TSMC Nov. 2020 4283-4294

# Mathematical operators

Multiple-Attribute Group Decision-Making Based on q-Rung Orthopair Fuzzy Power Maclaurin Symmetric Mean Operators. *Liu*, P, +, *TSMC Oct. 2020 3741-3756* 

## Mathematical programming

Critique of Recent Uncertainty Measures Developed Under the Evidence Theory and Belief Intervals. *Abellan, J.*, +, *TSMC March 2020 1186-1192* 

#### Mathematics computing

- An Evaluation Framework for Comparative Analysis of Generalized Stochastic Petri Net Simulation Techniques. *Rodriguez, R.J.*, +, *TSMC Aug.* 2020 2834-2844
- Design and Analysis of a Novel Finite-Time Convergent and Noise-Tolerant Recurrent Neural Network for Time-Variant Matrix Inversion. *Li, W., TSMC Nov. 2020 4362-4376*

#### Matrix algebra

- A Robust Adaptive Model Reference Impedance Control of a Robotic Manipulator With Actuator Saturation. *Arefinia, E.*, +, *TSMC Feb. 2020* 409-420
- An Approach to Design Robust Tracking Controllers for Nonlinear Uncertain Systems. *Celentano, L., +, TSMC Aug. 2020 3010-3023*
- Consensus Seeking in Multiagent Systems With Markovian Switching Topology Under Aperiodic Sampled Data. *Wang, X.*, +, *TSMC Dec. 2020* 5189-5200
- Dissipativity Analysis for Singular Time-Delay Systems Via State Decomposition Method. Zhi, Y., +, TSMC Oct. 2020 3936-3942
- Distributed Fault Estimation for a Class of Nonlinear Multiagent Systems. Liu, X., +, TSMC Sept. 2020 3382-3390
- Expected Convergence Rate to Consensus in Asymmetric Networks: Analysis and Distributed Estimation. *Asadi, M.M.*, +, *TSMC March 2020 972-*987
- Finite-Horizon  $H_{\infty}$  State Estimation for Time-Varying Neural Networks with Periodic Inner Coupling and Measurements Scheduling. Xu, Y, +, TSMC Jan. 2020 211-219
- Group Consensus for Heterogeneous Multiagent Systems in the Competition Networks With Input Time Delays. *Ji*, *L.*, +, *TSMC Nov. 2020 4655-4663*
- Matrix Function Optimization Problems Under Orthonormal Constraint. Li, G., +, TSMC March 2020 802-814
- Measurement and Computation of Profile Similarity of Workflow Nets Based on Behavioral Relation Matrix. *Wang, M.*, +, *TSMC Oct. 2020 3628-3645*
- Model-Free Optimal Output Regulation for Linear Discrete-Time Lossy Networked Control Systems. *Fan, J.*, +, *TSMC Nov. 2020 4033-4042*
- Observer-Based Synchronization of Chaotic Systems Satisfying Incremental Quadratic Constraints and Its Application in Secure Communication. *Zhao, Y., +, TSMC Dec. 2020 5221-5232*
- On the Solvability of Feedback Complete Linearization of Nonlinear Stochastic Systems. *Beheshtipour, Z., +, TSMC March 2020 1074-1082*
- Optimal Estimation for Discrete-Time Linear System with Communication Constraints and Measurement Quantization. *Ren, H.*, +, *TSMC May 2020* 1932-1942
- Pinning a Complex Network to Follow a Target System With Predesigned Control Inputs. *Wen, G., +, TSMC June 2020 2293-2304*
- Prescribed Performance-Based Consensus of Nonlinear Multiagent Systems With Unknown Control Directions and Switching Networks. *Liu, Y*, +, *TSMC Feb. 2020 609-616*
- Robust *H*<sub>∞</sub> Guaranteed Cost Time-Varying Formation Tracking for High-Order Multiagent Systems With Time-Varying Delays. *Yu, J.*, +, *TSMC April* 2020 1465-1475
- Stability, l<sub>2</sub>-Gain Analysis, and Parity Space-Based Fault Detection for Discrete-Time Switched Systems Under Dwell-Time Switching. Sun, T., +, TSMC Sept. 2020 3358-3368
- Zero-Shot Learning Based on Deep Weighted Attribute Prediction. *Wang, X.*, +, *TSMC Aug. 2020 2948-2957*

#### Matrix decomposition

- Non-Negative Matrix Factorization With Dual Constraints for Image Clustering. Yang, Z., +, TSMC July 2020 2524-2533
- Social Recommendation With Evolutionary Opinion Dynamics. *Xiong, F*, +, *TSMC Oct. 2020 3804-3816*

#### Matrix inversion

Design and Analysis of a Novel Finite-Time Convergent and Noise-Tolerant Recurrent Neural Network for Time-Variant Matrix Inversion. Li, W., TSMC Nov. 2020 4362-4376

#### Maximum likelihood estimation

Maximum *a Posteriori* Estimation for Information Source Detection. *Chang*, B., +, *TSMC June 2020 2242-2256* 

#### Mean square error methods

- Event-Triggered Distributed Fusion Estimation of Networked Multisensor Systems With Limited Information. Yan, H., +, TSMC Dec. 2020 5330-5337
- Extended Dissipative Filtering for Persistent Dwell-Time Switched Systems With Packet Dropouts. Shen, H., +, TSMC Nov. 2020 4796-4806
- Necessary and Sufficient Conditions for Leader-Following Bipartite Consensus With Measurement Noise. Ma, C., +, TSMC May 2020 1976-1981
- Optimal Estimation for Discrete-Time Linear System with Communication Constraints and Measurement Quantization. *Ren, H.*, +, *TSMC May 2020* 1932-1942

## Mechanical engineering computing

- A Belief Rule-Based Expert System for Fault Diagnosis of Marine Diesel Engines. *Xu*, *X.*, +, *TSMC Feb. 2020 656-672*
- Modeling and Interpretation of Tidal Turbine Vibration Through Weighted Least Squares Regression. *Galloway, G.S.*, +, *TSMC April 2020 1252-1259*

## Medical computing

Model-Based Monitoring and Adaptation of Pacemaker Behavior Using Hierarchical Fuzzy Colored Petri-Nets. Majma, N., +, TSMC Sept. 2020 3344-3357

#### Medical control systems

Robust Ground Reaction Force Estimation and Control of Lower-Limb Prostheses: Theory and Simulation. *Azimi, V.*, +, *TSMC Aug. 2020 3024-3035* 

## Medical image processing

- An Interventionalist-Behavior-Based Data Fusion Framework for Guidewire Tracking in Percutaneous Coronary Intervention. *Zhou, X.*, +, *TSMC Nov.* 2020 4836-4849
- OpenMRE: A Numerical Platform for MRE Study. Li, B.N., +, TSMC March 2020 1111-1121
- Surgical Wounds Assessment System for Self-Care. Chen, Y., +, TSMC Dec. 2020 5076-5091

## Medical information systems

Modeling and Analysis of Patient Transitions in Community Hospitals: A Systems Approach. *Lee, H.K.*, +, *TSMC Feb. 2020 686-699* 

## Medical robotics

- Brain–Robot Interface-Based Navigation Control of a Mobile Robot in Corridor Environments. Liu, Y., +, TSMC Aug. 2020 3047-3058
- Human-Inspired Control of Dual-Arm Exoskeleton Robots With Force and Impedance Adaptation. Li, Z., +, TSMC Dec. 2020 5296-5305
- Robust Ground Reaction Force Estimation and Control of Lower-Limb Prostheses: Theory and Simulation. *Azimi, V., +, TSMC Aug. 2020 3024-3035*

# Medical signal processing

- Brain–Robot Interface-Based Navigation Control of a Mobile Robot in Corridor Environments. *Liu, Y., +, TSMC Aug. 2020 3047-3058*
- Common Spatial Patterns Based on the Quantized Minimum Error Entropy Criterion. Chen, B., +, TSMC Nov. 2020 4557-4568
- Human-Inspired Control of Dual-Arm Exoskeleton Robots With Force and Impedance Adaptation. Li, Z., +, TSMC Dec. 2020 5296-5305
- Influence of Time Pressure on Inhibitory Brain Control During Emergency Driving. *King, J.*, +, *TSMC Nov. 2020 4408-4414*
- Muscle Fatigue Induced Hand Tremor Clustering in Dynamic Laparoscopic Manipulation. *Chandra, S.*, +, *TSMC Dec. 2020 5420-5431*
- Two-Factor Authentication System Using P300 Response to a Sequence of Human Photographs. Kaongoen, N., +, TSMC March 2020 1178-1185

## Memristors

Adaptive Synchronization of Delayed Memristive Neural Networks With Unknown Parameters. Yang, Z., +, TSMC Feb. 2020 539-549

## Meta data

A UAV Video Dataset for Mosaicking and Change Detection From Low-Altitude Flights. Avola, D., +, TSMC June 2020 2139-2149

#### Metallurgical industries

Optimal Setting and Control for Iron Removal Process Based on Adaptive Neural Network Soft-Sensor. *Xie, S.,* +, *TSMC July 2020 2408-2420* 

## Microcontrollers

Low-Cost, Efficient Output-Only Infrastructure Damage Detection With Wireless Sensor Networks. Contreras, W., +, TSMC March 2020 1003-1012

### Micromirrors

- A Modeling Method of Electromagnetic Micromirror in Random Noisy Environment. Cao, Q., +, TSMC July 2020 2578-2587
- Mirror Angle Tuning of Electromagnetic Micro-Mirrors With Oscillation Compensation. Dong, R., +, TSMC Aug. 2020 2969-2977

## Microrobots

Toward a Maneuverable Miniature Robotic Fish Equipped With a Novel Magnetic Actuator System. *Chen, X.*, +, *TSMC July 2020 2327-2337* 

# Microsensors

Modeling and Analyzing Linear Wireless Sensor Networks With Backbone Support. Mo, Y., +, TSMC Oct. 2020 3912-3924

## Middleware

Context-Aware Service Provisioning via Agentized and Reconfigurable Multimodel Cooperation for Real-Life IoT-Enabled Smart Home Systems. *Lu, C., TSMC Aug. 2020 2914-2925* 

## Military communication

- A System-of-Systems Approach to the Strategic Feasibility of Modular Vehicle Fleets. *Bayrak, A.E.*, +, *TSMC July 2020 2716-2728*
- Special Issue on Recent Advances in Petri Nets, Automata, and Discrete-Event Hybrid Systems. *Wisniewski, R., +, TSMC Oct. 2020 3484-3487*

## Military computing

- Context-Aware Decision Support for Anti-Submarine Warfare Mission Planning Within a Dynamic Environment. *Mishra, M.*, +, *TSMC Jan. 2020* 318-335
- Context-Aware Dynamic Asset Allocation for Maritime Interdiction Operations. Sidoti, D., +, TSMC March 2020 1055-1073
- Disintegration of Operational Capability of Heterogeneous Combat Networks Under Incomplete Information. *Li*, *J.*, +, *TSMC Dec. 2020 5172-5179*
- Layered Behavior Modeling via Combining Descriptive and Prescriptive Approaches: A Case Study of Infantry Company Engagement. *Bae, J.W.*, +, *TSMC July 2020 2551-2565*
- Special Issue on Recent Advances in Petri Nets, Automata, and Discrete-Event Hybrid Systems. *Wisniewski, R., +, TSMC Oct. 2020 3484-3487*

## Military systems

Context-Aware Decision Support for Anti-Submarine Warfare Mission Planning Within a Dynamic Environment. *Mishra, M.*, +, *TSMC Jan. 2020* 318-335

#### Military vehicles

- A System-of-Systems Approach to the Strategic Feasibility of Modular Vehicle Fleets. *Bayrak, A.E.*, +, *TSMC July 2020 2716-2728*
- Context-Aware Decision Support for Anti-Submarine Warfare Mission Planning Within a Dynamic Environment. *Mishra, M.*, +, *TSMC Jan. 2020* 318-335

#### **MIMO** systems

- Contraction Mapping-Based Robust Convergence of Iterative Learning Control With Uncertain, Locally Lipschitz Nonlinearity. *Meng, D.*, +, *TSMC Feb.* 2020 442-454
- Error-Driven Nonlinear Feedback Design for Fuzzy Adaptive Dynamic Surface Control of Nonlinear Systems With Prescribed Tracking Performance. *Dong, H.*, +, *TSMC March 2020 1013-1023*
- Fuzzy Adaptive Output Feedback Control for MIMO Switched Nontriangular Structure Nonlinear Systems With Unknown Control Directions. *Huang*, L., +, TSMC Feb. 2020 550-564
- Integral Reinforcement Learning-Based Adaptive NN Control for Continuous-Time Nonlinear MIMO Systems With Unknown Control Directions. *Guo, X.*, +, *TSMC Nov. 2020 4068-4077*
- Robust Adaptive Fuzzy Tracking Control for Uncertain MIMO Nonlinear Nonminimum Phase System. *Hu, X.*, +, *TSMC June 2020 2017-2028*

#### Minimax techniques

Improved Minmax Control for Industrial Networked Systems Over Imperfect Communication. Jin, Q., +, TSMC April 2020 1310-1317

#### Minimization

An Effective Local Search Algorithm for the Multidepot Cumulative Capacitated Vehicle Routing Problem. Wang, X., +, TSMC Dec. 2020 4948-4958

- Dual-Objective Optimization for Lane Reservation With Residual Capacity and Budget Constraints. *Wu*, *P*, +, *TSMC June 2020 2187-2197*
- Joint Energy, Maintenance, and Throughput Modeling for Sustainable Manufacturing Systems. *Sun, Z., +, TSMC June 2020 2101-2112*
- Online Heterogeneous Face Recognition Based on Total-Error-Rate Minimization. Jang, S., +, TSMC April 2020 1286-1299
- Robustness Analysis of a Power-Type Varying-Parameter Recurrent Neural Network for Solving Time-Varying QM and QP Problems and Applications. Zhang, Z., +, TSMC Dec. 2020 5106-5118

#### Missiles

- Feasibility Study and Conceptual Design of Missile-Borne Synthetic Aperture Radar. Saeedi, J., TSMC March 2020 1122-1133
- Fixed-Time Sliding Mode Disturbance Observer-Based Nonsmooth Backstepping Control for Hypersonic Vehicles. Sun, J., +, TSMC Nov. 2020 4377-4386

## Mixture models

An Interventionalist-Behavior-Based Data Fusion Framework for Guidewire Tracking in Percutaneous Coronary Intervention. *Zhou, X.*, +, *TSMC Nov.* 2020 4836-4849

#### Mobile computing

Development, Optimization, and Validation of Unintended Radiated Emissions Processing System for Threat Identification. *Friedel, J.E.*, +, *TSMC June 2020 2208-2219* 

#### Mobile robots

- A Humanoid Robot Learns to Recover Perturbation During Swinging Motion. Tran, D.H., +, TSMC Oct. 2020 3701-3712
- A New Repetitive Motion Planning Scheme With Noise Suppression Capability for Redundant Robot Manipulators. *Li*, *Z*., +, *TSMC Dec. 2020 5244-5254*
- A Self-Repairing Algorithm With Optimal Repair Path for Maintaining Motion Synchronization of Mobile Robot Network. *Liu, Z.*, +, *TSMC March* 2020 815-828
- A System-of-Systems Approach to the Strategic Feasibility of Modular Vehicle Fleets. *Bayrak, A.E.*, +, *TSMC July 2020 2716-2728*
- A Triangulation-Based Coverage Path Planning. An, V., +, TSMC June 2020 2157-2169
- Adaptive Partial Reinforcement Learning Neural Network-Based Tracking Control for Wheeled Mobile Robotic Systems. *Ding, L.*, +, *TSMC July* 2020 2512-2523
- An Efficient Computing of Correlated Equilibrium for Cooperative Q-Learning-Based Multi-Robot Planning. Sadhu, A.K., +, TSMC Aug. 2020 2779-2794
- Brain–Robot Interface-Based Navigation Control of a Mobile Robot in Corridor Environments. *Liu, Y.*, +, *TSMC Aug. 2020 3047-3058*
- Compensating Delays and Noises in Motion Control of Autonomous Electric Vehicles by Using Deep Learning and Unscented Kalman Predictor. *Li*, *Y*, +, *TSMC Nov. 2020 4326-4338*
- Deep Reinforced Learning Tree for Spatiotemporal Monitoring With Mobile Robotic Wireless Sensor Networks. *Chen, J.*, +, *TSMC Nov. 2020 4197-4211*
- Distributed  $H_{\infty}$  Optimal Tracking Control for Strict-Feedback Nonlinear Large-Scale Systems With Disturbances and Saturating Actuators. *Tan, L.N., TSMC Nov. 2020 4719-4731*
- Event-Based Tracking Control of Mobile Robot With Denial-of-Service Attacks. Tang, Y., +, TSMC Sept. 2020 3300-3310
- Formation Control of Multiple Mobile Robots Incorporating an Extended State Observer and Distributed Model Predictive Approach. *Liu, A.*, +, *TSMC Nov. 2020 4587-4597*
- Fully Distributed Low-Complexity Control for Nonlinear Strict-Feedback Multiagent Systems With Unknown Dead-Zone Inputs. *Wang, G.*, +, *TSMC Feb. 2020 421-431*
- Haptic Tele-Driving of Wheeled Mobile Robots Under Nonideal Wheel Rolling, Kinematic Control and Communication Time Delay. *Li, W.*, +, *TSMC Jan. 2020 336-347*
- Human-Inspired Control of Dual-Arm Exoskeleton Robots With Force and Impedance Adaptation. Li, Z., +, TSMC Dec. 2020 5296-5305

- Image Dynamics-Based Visual Servoing for Quadrotors Tracking a Target With a Nonlinear Trajectory Observer. *Cao, Z.*, +, *TSMC Jan. 2020 376-384*
- Integrating Vector Field Approach and Input-to-State Stability Curved Path Following for Unmanned Aerial Vehicles. *Zhao, S.*, +, *TSMC Aug. 2020* 2897-2904
- Motion Tracking Control Design for a Class of Nonholonomic Mobile Robot Systems. Fu, J., +, TSMC June 2020 2150-2156
- Multirobot Object Transport via Robust Caging. Wan, W., +, TSMC Jan. 2020 270-280
- Reinforcement Learning Neural Network-Based Adaptive Control for State and Input Time-Delayed Wheeled Mobile Robots. *Li*, S., +, *TSMC Nov.* 2020 4171-4182
- Robot Path Planning Using Analog Circuit Phase Delay. Garvey, S., +, TSMC Oct. 2020 3898-3911
- Robust Hybrid Nonlinear Control Systems for the Dynamics of a Quadcopter Drone. Santoso, F., +, TSMC Aug. 2020 3059-3071
- Toward a Maneuverable Miniature Robotic Fish Equipped With a Novel Magnetic Actuator System. *Chen, X.,* +, *TSMC July 2020 2327-2337*
- Using Stacked Sparse Auto-Encoder and Superpixel CRF for Long-Term Visual Scene Understanding of UGVs. *Qiu, Z.*, +, *TSMC April 2020 1331-1342*

#### Model reference adaptive control systems

Perimeter Control of Multiregion Urban Traffic Networks With Time-Varying Delays. Wan, Y, +, TSMC Aug. 2020 2795-2803

Robust Ground Reaction Force Estimation and Control of Lower-Limb Prostheses: Theory and Simulation. Azimi, V., +, TSMC Aug. 2020 3024-3035

# Modeling

Guest Editorial to the Special Issue on Logistics and Supply Chain Systems Engineering. *Choi, T., TSMC Dec. 2020 4852-4855* 

## **Monte Carlo methods**

Adaptive Dynamic Programming for Decentralized Stabilization of Uncertain Nonlinear Large-Scale Systems With Mismatched Interconnections. *Yang, X.*, +, *TSMC Aug. 2020 2870-2882* 

## Motion control

- A Humanoid Robot Learns to Recover Perturbation During Swinging Motion. Tran, D.H., +, TSMC Oct. 2020 3701-3712
- A New Repetitive Motion Planning Scheme With Noise Suppression Capability for Redundant Robot Manipulators. *Li*, *Z*., +, *TSMC Dec. 2020 5244-5254*
- A Segmented Geometry Method for Kinematics and Configuration Planning of Spatial Hyper-Redundant Manipulators. *Mu, Z.*, +, *TSMC May 2020* 1746-1756
- A Self-Repairing Algorithm With Optimal Repair Path for Maintaining Motion Synchronization of Mobile Robot Network. *Liu, Z.*, +, *TSMC March* 2020 815-828
- A Theoretical Framework for Stability Regions for Standing Balance of Humanoids Based on Their LIPM Treatment. *Kim, J.H.*, +, *TSMC Nov.* 2020 4569-4586
- Adaptive Robust Nonlinear Control Design for Course Tracking of Ships Subject to External Disturbances and Input Saturation. *Du*, *J.*, +, *TSMC Jan. 2020 193-202*
- Compensating Delays and Noises in Motion Control of Autonomous Electric Vehicles by Using Deep Learning and Unscented Kalman Predictor. *Li*, *Y*, +, *TSMC Nov. 2020 4326-4338*
- Control Strategy Based on Model Reduction and Online Intelligent Calculation for Planar *n*-Link Underactuated Manipulators. *Wang, Y.*, +, *TSMC March 2020 1046-1054*
- Human-Inspired Control of Dual-Arm Exoskeleton Robots With Force and Impedance Adaptation. Li, Z., +, TSMC Dec. 2020 5296-5305
- Motion Tracking Control Design for a Class of Nonholonomic Mobile Robot Systems. *Fu*, J., +, *TSMC June 2020 2150-2156*
- Multirobot Object Transport via Robust Caging. Wan, W., +, TSMC Jan. 2020 270-280
- Robust Ground Reaction Force Estimation and Control of Lower-Limb Prostheses: Theory and Simulation. Azimi, V., +, TSMC Aug. 2020 3024-3035
- Robust Science-Optimal Spacecraft Control for Circular Orbit Missions. Nasir, A., +, TSMC March 2020 923-934

Target Following and Close Monitoring Using an Unmanned Surface Vehicle. *Kim, J., TSMC Nov. 2020 4233-4242* 

Multi-agent systems

- A Task-Oriented Heuristic for Repairing Infeasible Solutions to Overlapping Coalition Structure Generation. *Zhang, G., +, TSMC March 2020 785-801* Adaptive Consensus of Multiagent Systems With Unknown High-Frequency
- Gain Signs Under Directed Graphs. Wang, Q., +, TSMC June 2020 2181-2186
- Asynchronous Quasi-Consensus of Heterogeneous Multiagent Systems With Nonuniform Input Delays. Wang, Z., +, TSMC Aug. 2020 2815-2827
- Cluster Lag Consensus for Second-Order Multiagent Systems with Nonlinear Dynamics and Switching Topologies. *Wang, Y.*, +, *TSMC June 2020* 2093-2100
- Consensus of Discrete-Time Multiagent Systems With State, Input, and Communication Delays. *Liu*, *Q*., +, *TSMC Nov. 2020 4425-4437*
- Consensus of Lipschitz Nonlinear Multiagent Systems With Input Delay via Observer-Based Truncated Prediction Feedback. *Chu, H., +, TSMC Oct.* 2020 3784-3794
- Consensus of Upper-Triangular Multiagent Systems With Sampled and Delayed Measurements via Output Feedback. *Li, F.*, +, *TSMC Feb. 2020* 600-608
- Consensus Seeking in Multiagent Systems With Markovian Switching Topology Under Aperiodic Sampled Data. *Wang, X.*, +, *TSMC Dec. 2020* 5189-5200
- Consensus Tracking Control for Distributed Nonlinear Multiagent Systems via Adaptive Neural Backstepping Approach. *Shang, Y.*, +, *TSMC July 2020 2436-2444*
- Cooperative Optimization of Dual Multiagent System for Optimal Resource Allocation. *Li, K.*, +, *TSMC Nov. 2020 4676-4687*
- Criteria Making in Role Negotiation. Zhu, X., +, TSMC Oct. 2020 3731-3740
- Distributed Adaptive Output Feedback Leader-Following Consensus Control for Nonlinear Multiagent Systems. *Hua, C.*, +, *TSMC Nov. 2020 4309-4317*
- Distributed Continuous-Time Optimization With Scalable Adaptive Event-Based Mechanisms. *Wu, Z.*, +, *TSMC Sept. 2020 3252-3257*
- Distributed Fault Detection and Isolation for Multiagent Systems: An Interval Observer Approach. Zhang, Z., +, TSMC June 2020 2220-2230
- Distributed Fault Estimation for a Class of Nonlinear Multiagent Systems. Liu, X., +, TSMC Sept. 2020 3382-3390
- Distributed  $H_{\infty}$  Optimal Tracking Control for Strict-Feedback Nonlinear Large-Scale Systems With Disturbances and Saturating Actuators. *Tan, L.N., TSMC Nov. 2020 4719-4731*
- Distributed Observer-Based Consensus Over Directed Networks With Limited Communication Bandwidth Constraints. *Rong, L.*, +, *TSMC Dec. 2020* 5361-5368
- Distributed Optimal Steady-State Regulation for High-Order Multiagent Systems With External Disturbances. *Tang, Y., TSMC Nov. 2020 4828-*4835
- Distributed PI Control for Consensus of Heterogeneous Multiagent Systems Over Directed Graphs. Lv, Y, +, TSMC April 2020 1602-1609
- Distributed Voltage Regulation for Cyber-Physical Microgrids With Coupling Delays and Slow Switching Topologies. *Lai*, *J.*, +, *TSMC Jan. 2020 100-110*
- Dynamic Event-Triggered Control for Leader-Following Consensus of Multiagent Systems. Du, S., +, TSMC Sept. 2020 3243-3251
- Dynamic Event-Triggered Distributed Coordination Control and its Applications: A Survey of Trends and Techniques. *Ge, X.*, +, *TSMC Sept. 2020* 3112-3125
- Event-Based Distributed Tracking Control for Second-Order Multiagent Systems With Switching Networks. *Duan, P., +, TSMC Sept. 2020 3220-3230*
- Evolutionary Game Dynamics of Multiagent Systems on Multiple Community Networks. Zhang, J., +, TSMC Nov. 2020 4513-4529

Exponential Finite-Time Consensus of Fractional-Order Multiagent Systems. Liu, H., +, TSMC April 2020 1549-1558

- Finite-Time Time-Varying Formation Tracking for High-Order Multiagent Systems With Mismatched Disturbances. *Hua, Y.*, +, *TSMC Oct. 2020* 3795-3803
- GrHDP Solution for Optimal Consensus Control of Multiagent Discrete-Time Systems. Zhong, X., +, TSMC July 2020 2362-2374
- Group Consensus for Heterogeneous Multiagent Systems in the Competition Networks With Input Time Delays. Ji, L., +, TSMC Nov. 2020 4655-4663
- $H_{\infty}$  Consensus for Multiagent-Based Supply Chain Systems Under Switching Topology and Uncertain Demands. *Li*, *Q*., +, *TSMC Dec. 2020 4905-4918*
- Input-Based Event-Triggering Consensus of Multiagent Systems Under Denial-of-Service Attacks. Xu, Y., +, TSMC April 2020 1455-1464
- Leader-Following Consensus for a Class of Nonlinear Strick-Feedback Multiagent Systems With State Time-Delays. *Chen, K.*, +, *TSMC July 2020* 2351-2361
- Model-Free Distributed Consensus Control Based on Actor–Critic Framework for Discrete-Time Nonlinear Multiagent Systems. *Wang, W.*, +, *TSMC Nov. 2020 4123-4134*
- Necessary and Sufficient Conditions for Leader-Following Bipartite Consensus With Measurement Noise. Ma, C., +, TSMC May 2020 1976-1981
- Observer-Based Consensus of Nonlinear Multiagent Systems With Relative State Estimate Constraints. *Chu*, *H*., +, *TSMC July 2020 2456-2465*
- Performance Improvement of Consensus Tracking for Linear Multiagent Systems With Input Saturation: A Gain Scheduled Approach. *Chu, H.*, +, *TSMC March 2020 734-746*
- Predictive Control of Networked Nonlinear Multiagent Systems With Communication Constraints. *Liu, G., TSMC Nov. 2020 4447-4457*
- Prescribed Performance-Based Consensus of Nonlinear Multiagent Systems With Unknown Control Directions and Switching Networks. *Liu, Y.*, +, *TSMC Feb. 2020 609-616*
- Quantized Consensus of Multiagent Systems by Event-Triggered Control. Ma, J., +, TSMC Sept. 2020 3231-3242
- Random Gradient-Free Optimization for Multiagent Systems With Communication Noises Under a Time-Varying Weight Balanced Digraph. *Wang*, *D.*, +, *TSMC Jan. 2020 281-289*
- Reliable Leader-to-Follower Formation Control of Multiagent Systems Under Communication Quantization and Attacks. *Huang, X.*, +, *TSMC Jan. 2020 89-99*
- Robust *H*<sub>∞</sub> Guaranteed Cost Time-Varying Formation Tracking for High-Order Multiagent Systems With Time-Varying Delays. *Yu, J.*, +, *TSMC April* 2020 1465-1475
- Robust Bipartite Consensus and Tracking Control of High-Order Multiagent Systems With Matching Uncertainties and Antagonistic Interactions. *Liu*, *M.*, +, *TSMC July 2020 2541-2550*
- Sampled-Data Consensus for Multiagent Systems With Time Delays and Packet Losses. Xing, M., +, TSMC Jan. 2020 203-210
- Two-Phase Attractors for Finite-Duration Consensus of Multiagent Systems. Sun, M., TSMC May 2020 1757-1765
- Multi-robot systems
  - A Distributed Control Framework of Multiple Unmanned Aerial Vehicles for Dynamic Wildfire Tracking. *Pham, H.X.*, +, *TSMC April 2020 1537-1548* Adaptive Fault-Tolerant H-Infinity Output Feedback Control for Lead–Wing
  - Close Formation Flight. *Liu*, C., +, *TSMC Aug. 2020 2804-2814*
  - An Efficient Computing of Correlated Equilibrium for Cooperative *Q*-Learning-Based Multi-Robot Planning. *Sadhu, A.K.*, +, *TSMC Aug. 2020 2779-2794*
  - Distributed Consensus of Linear Multiagent Systems: Laplacian Spectra-Based Method. Chen, Y., +, TSMC Feb. 2020 700-706
  - Distributed Continuous-Time Optimization With Scalable Adaptive Event-Based Mechanisms. *Wu, Z.,* +, *TSMC Sept. 2020 3252-3257*
  - Distributed  $H_{\infty}$  Optimal Tracking Control for Strict-Feedback Nonlinear Large-Scale Systems With Disturbances and Saturating Actuators. *Tan, L.N., TSMC Nov. 2020 4719-4731*
  - Event-Based Distributed Tracking Control for Second-Order Multiagent Systems With Switching Networks. *Duan, P., +, TSMC Sept. 2020 3220-3230*

- Event-Based Tracking Control of Mobile Robot With Denial-of-Service Attacks. Tang, Y., +, TSMC Sept. 2020 3300-3310
- Finite-Time Time-Varying Formation Tracking for High-Order Multiagent Systems With Mismatched Disturbances. *Hua, Y.*, +, *TSMC Oct. 2020* 3795-3803
- Formation Control of Multiple Mobile Robots Incorporating an Extended State Observer and Distributed Model Predictive Approach. *Liu, A.*, +, *TSMC Nov. 2020 4587-4597*
- Fully Distributed Low-Complexity Control for Nonlinear Strict-Feedback Multiagent Systems With Unknown Dead-Zone Inputs. *Wang, G.*, +, *TSMC Feb. 2020 421-431*
- Multiple-Solution Optimization Strategy for Multirobot Task Allocation. Huang, L., +, TSMC Nov. 2020 4283-4294
- Multirobot Object Transport via Robust Caging. Wan, W., +, TSMC Jan. 2020 270-280
- Quantized Consensus of Multiagent Systems by Event-Triggered Control. Ma, J., +, TSMC Sept. 2020 3231-3242
- Sampled-Data Consensus for Multiagent Systems With Time Delays and Packet Losses. *Xing, M.*, +, *TSMC Jan. 2020 203-210*
- Multidimensional systems

Reliable Control for Two-Dimensional Systems Subject to Extended Dissipativity. Tao, J., +, TSMC July 2020 2760-2765

#### Multilayer perceptrons

Bidirectional Backpropagation. *Adigun, O.*, +, *TSMC May 2020 1982-1994* Multiprocessing systems

Energy-Efficient Scheduling of Real-Time Tasks in Reconfigurable Homogeneous Multicore Platforms. *Gammoudi*, A., +, TSMC Dec. 2020 5092-5105

## Ν

#### National security

Context-Aware Dynamic Asset Allocation for Maritime Interdiction Operations. Sidoti, D., +, TSMC March 2020 1055-1073

Navier-Stokes equations

Modeling of Room Temperature Dynamics for Efficient Building Energy Management. *Rao*, *D.M.K.K.V.*, +, *TSMC Feb. 2020 717-725* 

Nearest neighbor methods

- Human Identification Using Selected Features From Finger Geometric Profiles. Bera, A., +, TSMC March 2020 747-761
- Network-to-Network Control Over Heterogeneous Topologies: A Dynamic Graph Approach. *Meng, D., +, TSMC May 2020 1885-1896*
- Toward Hand-Dominated Activity Recognition Systems With Wristband-Interaction Behavior Analysis. *Shen, C.,* +, *TSMC July 2020 2501-2511*

## Network theory (graphs)

Group Consensus for Heterogeneous Multiagent Systems in the Competition Networks With Input Time Delays. Ji, L., +, TSMC Nov. 2020 4655-4663

- Network-to-Network Control Over Heterogeneous Topologies: A Dynamic Graph Approach. Meng, D., +, TSMC May 2020 1885-1896
- Optimal Disintegration Strategy With Heterogeneous Costs in Complex Networks. *Deng, Y*, +, *TSMC Aug. 2020 2905-2913*
- Pinning a Complex Network to Follow a Target System With Predesigned Control Inputs. *Wen, G., +, TSMC June 2020 2293-2304*
- Recovering Network Structures With Time-Varying Nodal Parameters. Wang, X., +, TSMC July 2020 2588-2598

# Network topology

- Asymptotic Frequency Synchronization of Kuramoto Model by Step Force. Mao, Y., +, TSMC Aug. 2020 2768-2778
- Network-on-chip

Energy-Efficient Scheduling of Real-Time Tasks in Reconfigurable Homogeneous Multicore Platforms. *Gammoudi*, A., +, *TSMC Dec. 2020 5092-*5105

## Networked control systems

- Co-Design of Distributed Model-Based Control and Event-Triggering Scheme for Load Frequency Regulation in Smart Grids. *Liu, S.*, +, *TSMC Sept. 2020 3311-3319*
- Dissipative Fuzzy Filtering for Nonlinear Networked Systems With Limited Communication Links. Chen, Z., +, TSMC March 2020 962-971

- Dynamic Event-Triggered Distributed Coordination Control and its Applications: A Survey of Trends and Techniques. *Ge, X.*, +, *TSMC Sept. 2020* 3112-3125
- Dynamic Output Feedback Asynchronous Control of Networked Markovian Jump Systems. *Liu*, X., +, *TSMC July 2020 2705-2715*
- Event-Based Distributed Tracking Control for Second-Order Multiagent Systems With Switching Networks. *Duan, P., +, TSMC Sept. 2020 3220-3230*
- Event-Based Security Control for Stochastic Networked Systems Subject to Attacks. Yan, H., +, TSMC Nov. 2020 4643-4654
- Finite-Time Control of Continuous-Time Networked Dynamical Systems. Liu, H., +, TSMC Nov. 2020 4623-4632
- Guaranteed Cost Control of Uncertain Networked Control Systems With a Hybrid Communication Scheme. *Zhang, J.*, +, *TSMC Sept. 2020 3126-3135*
- Improved Minmax Control for Industrial Networked Systems Over Imperfect Communication. Jin, Q., +, TSMC April 2020 1310-1317
- Model-Free Optimal Output Regulation for Linear Discrete-Time Lossy Networked Control Systems. Fan, J., +, TSMC Nov. 2020 4033-4042
- Network-to-Network Control Over Heterogeneous Topologies: A Dynamic Graph Approach. *Meng, D., +, TSMC May 2020 1885-1896*
- Optimal Estimation for Discrete-Time Linear System with Communication Constraints and Measurement Quantization. *Ren, H.*, +, *TSMC May 2020* 1932-1942
- Predictive Control of Networked Nonlinear Multiagent Systems With Communication Constraints. *Liu, G., TSMC Nov. 2020 4447-4457*
- Quantitative Modeling and Analytical Calculation of Anelasticity for a Cyber-Physical System. *Gong, H.,* +, *TSMC Nov. 2020 4746-4761*
- Quantized Control for Networked Switched Systems With a More General Switching Rule. *Li*, *J.*, +, *TSMC May 2020 1909-1917*
- Structural Sparsity in Networked Control Systems. *Florez, A.J.*, +, *TSMC Dec. 2020 5152-5161*

#### Neural networks

- A Belief Rule-Based Expert System for Fault Diagnosis of Marine Diesel Engines. Xu, X., +, TSMC Feb. 2020 656-672
- A Decision Support System for Wind Power Production. *Donida Labati, R.*, +, *TSMC Jan. 2020 290-304*
- Dealing With Large-Scale Spatio-Temporal Patterns in Imitative Interaction Between a Robot and a Human by Using the Predictive Coding Framework. *Hwang*, J., +, *TSMC May 2020 1918-1931*
- Deterministic Policy Gradient With Integral Compensator for Robust Quadrotor Control. *Wang, Y.*, +, *TSMC Oct. 2020 3713-3725*
- Finite-Horizon  $H_{\infty}$  State Estimation for Time-Varying Neural Networks with Periodic Inner Coupling and Measurements Scheduling. Xu, Y, +, TSMC Jan. 2020 211-219
- Lagrange Exponential Stability of Complex-Valued BAM Neural Networks With Time-Varying Delays. Zhang, Z., +, TSMC Aug. 2020 3072-3085
- Multidomain Features-Based GA Optimized Artificial Immune System for Bearing Fault Detection. *Abid*, *A.*, +, *TSMC Jan. 2020 348-359*
- Optimal Dynamic Pricing for Trading-Off User Utility and Operator Profit in Smart Grid. *Ferdous, J.*, +, *TSMC Feb. 2020 455-467*
- Toward Hand-Dominated Activity Recognition Systems With Wristband-Interaction Behavior Analysis. Shen, C., +, TSMC July 2020 2501-2511
- Zero-Shot Learning Based on Deep Weighted Attribute Prediction. *Wang, X.*, +, *TSMC Aug. 2020 2948-2957*

## Neurocontrollers

- A Humanoid Robot Learns to Recover Perturbation During Swinging Motion. Tran, D.H., +, TSMC Oct. 2020 3701-3712
- A Neural Adaptive Approach for Active Fault-Tolerant Control Design in UAV. *Abbaspour*, *A.*, +, *TSMC Sept. 2020 3401-3411*
- A Segmented Geometry Method for Kinematics and Configuration Planning of Spatial Hyper-Redundant Manipulators. *Mu*, Z., +, *TSMC May 2020* 1746-1756
- Adaptive Backstepping Hybrid Fuzzy Sliding Mode Control for Uncertain Fractional-Order Nonlinear Systems Based on Finite-Time Scheme. *Song*, *S.*, +, *TSMC April 2020 1559-1569*

- Adaptive Critic Learning and Experience Replay for Decentralized Event-Triggered Control of Nonlinear Interconnected Systems. *Yang, X.*, +, *TSMC Nov. 2020 4043-4055*
- Adaptive Dynamic Programming for Decentralized Stabilization of Uncertain Nonlinear Large-Scale Systems With Mismatched Interconnections. *Yang, X., +, TSMC Aug. 2020 2870-2882*
- Adaptive Dynamics Programming for  $H_{\infty}$  Control of Continuous-Time Unknown Nonlinear Systems via Generalized Fuzzy Hyperbolic Models. *Su, H.*, +, *TSMC Nov. 2020 3996-4008*
- Adaptive Fault-Tolerant Control of Uncertain Switched Nonaffine Nonlinear Systems With Actuator Faults and Time Delays. *Wu, L.*, +, *TSMC Sept.* 2020 3470-3480
- Adaptive Fuzzy Fault-Tolerant Tracking Control of Uncertain Nonlinear Time-Varying Delay Systems. Zhai, D., +, TSMC May 2020 1840-1849
- Adaptive Fuzzy Tracking Control for a Class of Nonstrict-Feedback Stochastic Nonlinear Systems With Actuator Faults. *Su, H.*, +, *TSMC Sept.* 2020 3456-3469
- Adaptive Neural Network Control for a Class of Nonlinear Systems With Unknown Control Direction. Wang, C., +, TSMC Nov. 2020 4708-4718
- Adaptive Partial Reinforcement Learning Neural Network-Based Tracking Control for Wheeled Mobile Robotic Systems. *Ding, L.*, +, *TSMC July* 2020 2512-2523
- Adaptive Synchronization of Delayed Memristive Neural Networks With Unknown Parameters. Yang, Z., +, TSMC Feb. 2020 539-549
- ADP-Based Robust Tracking Control for a Class of Nonlinear Systems With Unmatched Uncertainties. Mu, C., +, TSMC Nov. 2020 4056-4067
- An Adaptive Neural Network Controller for Active Suspension Systems With Hydraulic Actuator. *Liu*, *Y*, +, *TSMC Dec. 2020 5351-5360*
- Balancing Value Iteration and Policy Iteration for Discrete-Time Control. Luo, B., +, TSMC Nov. 2020 3948-3958
- Co-Design of Finite-Time Convergence and Noise Suppression: A Unified Neural Model for Time Varying Linear Equations With Robotic Applications. *Xiao, L.*, +, *TSMC Dec. 2020 5233-5243*
- Compensating Delays and Noises in Motion Control of Autonomous Electric Vehicles by Using Deep Learning and Unscented Kalman Predictor. *Li*, *Y*, +, *TSMC Nov. 2020 4326-4338*
- Consensus Tracking Control for Distributed Nonlinear Multiagent Systems via Adaptive Neural Backstepping Approach. *Shang, Y.*, +, *TSMC July 2020 2436-2444*
- Continuous and Discrete Zeroing Neural Network for Different-Level Dynamic Linear System With Robot Manipulator Control. *Li*, *J.*, +, *TSMC Nov.* 2020 4633-4642
- Decentralized Adaptive NN Output-Feedback Fault Compensation Control of Nonlinear Switched Large-Scale Systems With Actuator Dead-Zones. *Ma*, *Z*., +, *TSMC Sept. 2020 3435-3447*
- Design and Analysis of a Novel Finite-Time Convergent and Noise-Tolerant Recurrent Neural Network for Time-Variant Matrix Inversion. *Li, W., TSMC Nov. 2020 4362-4376*
- Discrete-Time Neural Network Approach for Tracking Control of Spherical Inverted Pendulum. *Ping, Z.*, +, *TSMC Aug. 2020 2989-2995*
- Distributed Adaptive FBC of Uncertain Nonaffine Multiagent Systems Preceded by Unknown Input Nonlinearities With Unknown Gain Sign. Shahnazi, R., +, TSMC Aug. 2020 3036-3046
- Error State Convergence on Master–Slave Generalized Uncertain Neural Networks Using Robust Nonlinear  $H_{\infty}$  Control Theory. *Chen, H.*, +, *TSMC June 2020 2042-2055*
- Event-Driven Guaranteed Cost Control Design for Nonlinear Systems With Actuator Faults via Reinforcement Learning Algorithm. *Zhang, H.*, +, *TSMC Nov. 2020 4135-4150*
- Event-Triggered Adaptive Critic Control Design for Discrete-Time Constrained Nonlinear Systems. *Ha*, *M.*, +, *TSMC Sept. 2020 3158-3168*
- Event-Triggered Adaptive Dynamic Programming for Zero-Sum Game of Partially Unknown Continuous-Time Nonlinear Systems. *Xue, S.*, +, *TSMC Sept. 2020 3189-3199*
- Event-Triggered Integral Sliding-Mode Control for Nonlinear Constrained-Input Systems With Disturbances via Adaptive Dynamic Programming. Yang, D., +, TSMC Nov. 2020 4086-4096

- Event-Triggered Robust Stabilization of Nonlinear Input-Constrained Systems Using Single Network Adaptive Critic Designs. *Yang, X.*, +, *TSMC Sept. 2020 3145-3157*
- Finite-Time Adaptive Fuzzy Decentralized Control for Nonstrict-Feedback Nonlinear Systems With Output-Constraint. *Li*, *K*., +, *TSMC Dec. 2020* 5271-5284
- Integral Reinforcement Learning-Based Adaptive NN Control for Continuous-Time Nonlinear MIMO Systems With Unknown Control Directions. *Guo, X.*, +, *TSMC Nov. 2020 4068-4077*
- Leader-Following Consensus for a Class of Nonlinear Strick-Feedback Multiagent Systems With State Time-Delays. *Chen, K.*, +, *TSMC July 2020* 2351-2361
- Model-Free Distributed Consensus Control Based on Actor–Critic Framework for Discrete-Time Nonlinear Multiagent Systems. *Wang, W.*, +, *TSMC Nov. 2020 4123-4134*
- Model-Free  $H_{\infty}$  Optimal Tracking Control of Constrained Nonlinear Systems via an Iterative Adaptive Learning Algorithm. *Hou, J.*, +, *TSMC Nov.* 2020 4097-4108
- Multiple Lagrange Stability Under Perturbation for Recurrent Neural Networks With Time-Varying Delays. *Zhang, F., +, TSMC June 2020 2029-*2041
- Multistability of Recurrent Neural Networks With Piecewise-Linear Radial Basis Functions and State-Dependent Switching Parameters. *Guo, Z.*, +, *TSMC Nov. 2020 4458-4471*
- Neural Network-Based Adaptive Control for Pure-Feedback Stochastic Nonlinear Systems With Time-Varying Delays and Dead-Zone Input. *Li*, *Z.*, +, *TSMC Dec. 2020 5317-5329*
- Neural Networks-Based Active Fault-Tolerant Control for a Class of Switched Nonlinear Systems With Its Application to RCL Circuit. *Tang*, L., +, *TSMC Nov. 2020 4270-4282*
- Neuro-Optimal Control for Discrete Stochastic Processes via a Novel Policy Iteration Algorithm. *Liang, M.*, +, *TSMC Nov. 2020 3972-3985*
- New Discrete-Time Models of Zeroing Neural Network Solving Systems of Time-Variant Linear and Nonlinear Inequalities. *Shi*, *Y*, +, *TSMC Feb.* 2020 565-576
- Reinforcement Learning Neural Network-Based Adaptive Control for State and Input Time-Delayed Wheeled Mobile Robots. *Li*, *S.*, +, *TSMC Nov.* 2020 4171-4182
- Robust Optimal Control for Disturbed Nonlinear Zero-Sum Differential Games Based on Single NN and Least Squares. Song, R., +, TSMC Nov. 2020 4009-4019
- Robust Optimal Control Scheme for Unknown Constrained-Input Nonlinear Systems via a Plug-n-Play Event-Sampled Critic-Only Algorithm. *Zhang*, *H.*, +, *TSMC Sept. 2020 3169-3180*
- Stability Analysis for Delayed Neural Networks via Some Switching Methods. Li, X., +, TSMC May 2020 1690-1695
- Stability and Robust Stability of Stochastic Reaction–Diffusion Neural Networks With Infinite Discrete and Distributed Delays. *Sheng, Y.*, +, *TSMC May 2020 1721-1732*
- Value Iteration-Based  $H_{\infty}$  Controller Design for Continuous-Time Nonlinear Systems Subject to Input Constraints. *Zhang, H.*, +, *TSMC Nov. 2020* 3986-3995

## Neurophysiology

- Influence of Time Pressure on Inhibitory Brain Control During Emergency Driving. *King, J.*, +, *TSMC Nov. 2020 4408-4414*
- Newton method
  - Robust Optimal Control for Disturbed Nonlinear Zero-Sum Differential Games Based on Single NN and Least Squares. *Song, R.*, +, *TSMC Nov.* 2020 4009-4019

## Nonlinear control systems

- $\mathcal{H}_{\infty}$  PID Control With Fading Measurements: The Output-Feedback Case. *Zhao, D.,* +, *TSMC June 2020 2170-2180*
- A Neural Adaptive Approach for Active Fault-Tolerant Control Design in UAV. *Abbaspour*; A., +, *TSMC Sept. 2020 3401-3411*
- A Theoretical Framework for Stability Regions for Standing Balance of Humanoids Based on Their LIPM Treatment. *Kim, J.H.*, +, *TSMC Nov.* 2020 4569-4586

- Adaptive Backstepping Hybrid Fuzzy Sliding Mode Control for Uncertain Fractional-Order Nonlinear Systems Based on Finite-Time Scheme. *Song*, *S.*, +, *TSMC April 2020 1559-1569*
- Adaptive Consensus of Multiagent Systems With Unknown High-Frequency Gain Signs Under Directed Graphs. *Wang, Q.*, +, *TSMC June 2020 2181-2186*
- Adaptive Critic Learning and Experience Replay for Decentralized Event-Triggered Control of Nonlinear Interconnected Systems. *Yang, X.*, +, *TSMC Nov. 2020 4043-4055*
- Adaptive Dynamic Programming for Decentralized Stabilization of Uncertain Nonlinear Large-Scale Systems With Mismatched Interconnections. *Yang, X., +, TSMC Aug. 2020 2870-2882*
- Adaptive Dynamics Programming for  $H_{\infty}$  Control of Continuous-Time Unknown Nonlinear Systems via Generalized Fuzzy Hyperbolic Models. *Su, H.*, +, *TSMC Nov. 2020 3996-4008*
- Adaptive Fault-Tolerant Compensation Control and Its Application to Nonlinear Suspension Systems. Pan, H., +, TSMC May 2020 1766-1776
- Adaptive Fault-Tolerant Compensation Control for T–S Fuzzy Systems With Mismatched Parameter Uncertainties. Yan, J., +, TSMC Sept. 2020 3412-3423
- Adaptive Fault-Tolerant Control of Uncertain Switched Nonaffine Nonlinear Systems With Actuator Faults and Time Delays. *Wu, L.*, +, *TSMC Sept.* 2020 3470-3480
- Adaptive Fuzzy Fault-Tolerant Tracking Control of Uncertain Nonlinear Time-Varying Delay Systems. Zhai, D., +, TSMC May 2020 1840-1849
- Adaptive Fuzzy Tracking Control for a Class of Nonstrict-Feedback Stochastic Nonlinear Systems With Actuator Faults. Su, H., +, TSMC Sept. 2020 3456-3469
- Adaptive Fuzzy Tracking Control of Nonlinear Switched Stochastic Systems With Prescribed Performance and Unknown Control Directions. *Liu*, Y, +, *TSMC Feb. 2020 590-599*
- Adaptive Neural Network Control for a Class of Nonlinear Systems With Unknown Control Direction. Wang, C., +, TSMC Nov. 2020 4708-4718
- Adaptive Partial Reinforcement Learning Neural Network-Based Tracking Control for Wheeled Mobile Robotic Systems. *Ding, L.*, +, *TSMC July* 2020 2512-2523
- Adaptive Robust Nonlinear Control Design for Course Tracking of Ships Subject to External Disturbances and Input Saturation. *Du, J.*, +, *TSMC Jan. 2020 193-202*
- ADP-Based Robust Tracking Control for a Class of Nonlinear Systems With Unmatched Uncertainties. *Mu, C.*, +, *TSMC Nov. 2020 4056-4067*
- An Adaptive Neural Network Controller for Active Suspension Systems With Hydraulic Actuator. *Liu*, *Y*, +, *TSMC Dec. 2020 5351-5360*
- An Approach to Design Robust Tracking Controllers for Nonlinear Uncertain Systems. *Celentano, L., +, TSMC Aug. 2020 3010-3023*
- Asynchronous Quasi-Consensus of Heterogeneous Multiagent Systems With Nonuniform Input Delays. Wang, Z., +, TSMC Aug. 2020 2815-2827
- Balancing Value Iteration and Policy Iteration for Discrete-Time Control. Luo, B., +, TSMC Nov. 2020 3948-3958
- Barrier Lyapunov Functions-Based Adaptive Fault Tolerant Control for Flexible Hypersonic Flight Vehicles With Full State Constraints. *Yuan, Y.*, +, *TSMC Sept. 2020 3391-3400*
- Cluster Lag Consensus for Second-Order Multiagent Systems with Nonlinear Dynamics and Switching Topologies. *Wang, Y.*, +, *TSMC June 2020* 2093-2100
- Co-Design of Finite-Time Convergence and Noise Suppression: A Unified Neural Model for Time Varying Linear Equations With Robotic Applications. *Xiao, L., +, TSMC Dec. 2020 5233-5243*
- Consensus of Lipschitz Nonlinear Multiagent Systems With Input Delay via Observer-Based Truncated Prediction Feedback. *Chu, H.*, +, *TSMC Oct.* 2020 3784-3794
- Consensus of Upper-Triangular Multiagent Systems With Sampled and Delayed Measurements via Output Feedback. *Li, F.,* +, *TSMC Feb. 2020* 600-608
- Consensus Tracking Control for Distributed Nonlinear Multiagent Systems via Adaptive Neural Backstepping Approach. *Shang, Y.*, +, *TSMC July 2020 2436-2444*

- Continuous State Feedback Control Based on Intelligent Optimization for First-Order Nonholonomic Systems. *Lai*, X., +, *TSMC July 2020 2534-2540*
- Contraction Mapping-Based Robust Convergence of Iterative Learning Control With Uncertain, Locally Lipschitz Nonlinearity. *Meng, D.*, +, *TSMC Feb. 2020 442-454*
- Control Strategy Based on Model Reduction and Online Intelligent Calculation for Planar *n*-Link Underactuated Manipulators. *Wang, Y.*, +, *TSMC March 2020 1046-1054*
- Decentralized Adaptive NN Output-Feedback Fault Compensation Control of Nonlinear Switched Large-Scale Systems With Actuator Dead-Zones. *Ma*, *Z*., +, *TSMC Sept. 2020 3435-3447*
- Design of Robust Sliding Mode Control With Adaptive Reaching Law. *Han, H.*, +, *TSMC Nov. 2020 4415-4424*
- Deterministic Policy Gradient With Integral Compensator for Robust Quadrotor Control. *Wang, Y.*, +, *TSMC Oct. 2020 3713-3725*
- Discrete-Time Neural Network Approach for Tracking Control of Spherical Inverted Pendulum. *Ping, Z.*, +, *TSMC Aug. 2020 2989-2995*
- Dissipative Fuzzy Filtering for Nonlinear Networked Systems With Limited Communication Links. *Chen, Z.*, +, *TSMC March 2020 962-971*
- Dissipative Fuzzy Tracking Control for Nonlinear Networked Systems With Quantization. *Li*, *Z*., +, *TSMC Dec. 2020 5130-5141*
- Distributed Adaptive FBC of Uncertain Nonaffine Multiagent Systems Preceded by Unknown Input Nonlinearities With Unknown Gain Sign. Shahnazi, R., +, TSMC Aug. 2020 3036-3046
- Distributed Adaptive Output Feedback Leader-Following Consensus Control for Nonlinear Multiagent Systems. *Hua, C., +, TSMC Nov. 2020 4309-4317*
- Distributed Fault Estimation for a Class of Nonlinear Multiagent Systems. Liu, X., +, TSMC Sept. 2020 3382-3390
- Distributed  $H_{\infty}$  Optimal Tracking Control for Strict-Feedback Nonlinear Large-Scale Systems With Disturbances and Saturating Actuators. *Tan, L.N., TSMC Nov. 2020 4719-4731*
- Disturbance Rejection of Nonlinear Boiler–Turbine Unit Using High-Order Sliding Mode Observer. Su, Z., +, TSMC Dec. 2020 5432-5443
- Disturbance-Observer-Based Fault Tolerant Control of High-Speed Trains: A Markovian Jump System Model Approach. *Yao, X.*, +, *TSMC April 2020* 1476-1485
- Dynamic Event-Triggered State Estimation for Discrete-Time Singularly Perturbed Systems With Distributed Time-Delays. *Ma*, *L*., +, *TSMC Sept.* 2020 3258-3268
- Error State Convergence on Master–Slave Generalized Uncertain Neural Networks Using Robust Nonlinear  $H_{\infty}$  Control Theory. *Chen, H.*, +, *TSMC June 2020 2042-2055*
- Error-Driven Nonlinear Feedback Design for Fuzzy Adaptive Dynamic Surface Control of Nonlinear Systems With Prescribed Tracking Performance. *Dong, H.*, +, *TSMC March 2020 1013-1023*
- Event-Driven Guaranteed Cost Control Design for Nonlinear Systems With Actuator Faults via Reinforcement Learning Algorithm. *Zhang, H.*, +, *TSMC Nov. 2020 4135-4150*
- Event-Triggered Adaptive Critic Control Design for Discrete-Time Constrained Nonlinear Systems. *Ha*, *M.*, +, *TSMC Sept. 2020 3158-3168*
- Event-Triggered Adaptive Dynamic Programming for Zero-Sum Game of Partially Unknown Continuous-Time Nonlinear Systems. *Xue, S.*, +, *TSMC Sept. 2020 3189-3199*
- Event-Triggered Adaptive Output Regulation for a Class of Nonlinear Systems With Unknown Control Direction. *Lei, Y.*, +, *TSMC Sept. 2020 3181-3188*
- Event-Triggered Integral Sliding-Mode Control for Nonlinear Constrained-Input Systems With Disturbances via Adaptive Dynamic Programming. *Yang, D.*, +, *TSMC Nov. 2020 4086-4096*
- Event-Triggered Robust Stabilization of Nonlinear Input-Constrained Systems Using Single Network Adaptive Critic Designs. *Yang, X.*, +, *TSMC Sept. 2020 3145-3157*
- Fault Detection Approaches for Fuzzy Large-Scale Systems With Unknown Membership Functions. Wang, H., +, TSMC Sept. 2020 3333-3343

- Finite-Horizon Distributed State Estimation Under Randomly Switching Topologies and Redundant Channels. Dong, H., +, TSMC Aug. 2020 2938-2947
- Finite-Time  $\mathcal{H}_{\infty}$  Controller Synthesis of T–S Fuzzy Systems. *Li*, *Y*, +, *TSMC May 2020 1956-1963*
- Finite-Time Adaptive Fuzzy Decentralized Control for Nonstrict-Feedback Nonlinear Systems With Output-Constraint. *Li, K.*, +, *TSMC Dec. 2020* 5271-5284
- Fully Distributed Low-Complexity Control for Nonlinear Strict-Feedback Multiagent Systems With Unknown Dead-Zone Inputs. *Wang, G.*, +, *TSMC Feb. 2020 421-431*
- Fuzzy Adaptive Output Feedback Control for MIMO Switched Nontriangular Structure Nonlinear Systems With Unknown Control Directions. *Huang*, L., +, TSMC Feb. 2020 550-564
- Fuzzy Adaptive Quantized Fault-Tolerant Control of Strict-Feedback Nonlinear Systems With Mismatched External Disturbances. *Jing, Y.*, +, *TSMC Sept. 2020 3424-3434*
- Guaranteed Cost Control of Uncertain Networked Control Systems With a Hybrid Communication Scheme. *Zhang, J.*, +, *TSMC Sept. 2020 3126-3135*
- H<sub>∞</sub> Tracking Control of Discrete-Time System With Delays via Data-Based Adaptive Dynamic Programming. *Liu*, Y., +, *TSMC Nov. 2020 4078-4085*
- Image Dynamics-Based Visual Servoing for Quadrotors Tracking a Target With a Nonlinear Trajectory Observer. *Cao, Z.*, +, *TSMC Jan. 2020 376-384*
- Improved Constrained Model Predictive Tracking Control for Networked Coke Furnace Systems Over Uncertainty and Communication Loss. *Jin*, *Q.*, +, *TSMC May 2020 1877-1884*
- Improved Control for Industrial Systems Over Model Uncertainty: A Receding Horizon Expanded State Space Control Approach. *Zhang, R., TSMC April 2020 1343-1349*
- Improved Minmax Control for Industrial Networked Systems Over Imperfect Communication. Jin, Q., +, TSMC April 2020 1310-1317
- Integral Reinforcement Learning-Based Adaptive NN Control for Continuous-Time Nonlinear MIMO Systems With Unknown Control Directions. *Guo, X.*, +, *TSMC Nov. 2020 4068-4077*
- Integrating Vector Field Approach and Input-to-State Stability Curved Path Following for Unmanned Aerial Vehicles. *Zhao, S.*, +, *TSMC Aug. 2020* 2897-2904
- Interval Observers Design for Polynomial Fuzzy Singular Systems by Utilizing Sum-of-Squares Program. Pang, B., +, TSMC June 2020 1999-2006
- Leader-Following Consensus for a Class of Nonlinear Strick-Feedback Multiagent Systems With State Time-Delays. *Chen, K.*, +, *TSMC July 2020* 2351-2361
- Minimum-Learning-Parameters-Based Adaptive Neural Fault Tolerant Control With Its Application to Continuous Stirred Tank Reactor. *Wang, Z.*, +, *TSMC April 2020 1275-1285*
- Model-Free Distributed Consensus Control Based on Actor–Critic Framework for Discrete-Time Nonlinear Multiagent Systems. *Wang, W.*, +, *TSMC Nov. 2020 4123-4134*
- Model-Free  $H_{\infty}$  Optimal Tracking Control of Constrained Nonlinear Systems via an Iterative Adaptive Learning Algorithm. *Hou, J.*, +, *TSMC Nov.* 2020 4097-4108
- Model-Free Optimal Output Regulation for Linear Discrete-Time Lossy Networked Control Systems. Fan, J., +, TSMC Nov. 2020 4033-4042
- Modified Repetitive Control Design for Nonlinear Systems With Time Delay Based on T–S Fuzzy Model. Sakthivel, R., +, TSMC Feb. 2020 646-655
- Neural Network-Based Adaptive Control for Pure-Feedback Stochastic Nonlinear Systems With Time-Varying Delays and Dead-Zone Input. *Li*, *Z.*, +, *TSMC Dec. 2020 5317-5329*
- Neural Networks-Based Active Fault-Tolerant Control for a Class of Switched Nonlinear Systems With Its Application to RCL Circuit. *Tang*, *L.*, +, *TSMC Nov. 2020 4270-4282*
- Nonfragile *l*<sub>2</sub> –*l*<sub>∞</sub> Fault Estimation for Markovian Jump 2-D Systems With Specified Power Bounds. *Luo*, *Y*, +, *TSMC May 2020 1964-1975*

- Nonsmooth Decentralized Stabilization for Interconnected Systems Subject to Strongly Coupled Uncertain Interactions. *Zhang, C.*, +, *TSMC July 2020* 2685-2692
- Observer-Based Adaptive Finite-Time Quantized Tracking Control of Nonstrict-Feedback Nonlinear Systems With Asymmetric Actuator Saturation. *Yu, Z.*, +, *TSMC Nov. 2020 4545-4556*
- Observer-Based Adaptive Sliding Mode Control for T–S Fuzzy Singular Systems. Sun, X., +, TSMC Nov. 2020 4438-4446
- Observer-Based Consensus of Nonlinear Multiagent Systems With Relative State Estimate Constraints. *Chu*, *H*., +, *TSMC July 2020 2456-2465*
- Observer-Based Integral Sliding Mode Tracking Control for a Pneumatic Cylinder With Varying Loads. *Zhao, L.*, +, *TSMC July 2020 2650-2658*
- On the Solvability of Feedback Complete Linearization of Nonlinear Stochastic Systems. *Beheshtipour, Z., +, TSMC March 2020 1074-1082*
- Parameters Variation-Based Synchronization on Derivative Coupled Lur'e Networks. *Tang*, Z., +, *TSMC Dec. 2020 5395-5405*
- Partial State Constraints-Based Control for Nonlinear Systems With Backlash-Like Hysteresis. *Liu*, *L*., +, *TSMC Aug. 2020 3100-3104*
- Performance Improvement of Consensus Tracking for Linear Multiagent Systems With Input Saturation: A Gain Scheduled Approach. *Chu, H.*, +, *TSMC March 2020 734-746*
- Practical Regulation of Nonholonomic Systems Using Virtual Trajectories and LaSalle Invariance Principle. *Zhang, D.*, +, *TSMC May 2020 1833-1839*
- Practically Finite-Time Control for Nonlinear Systems With Mismatching Conditions and Application to a Robot System. *Min, H.*, +, *TSMC Feb.* 2020 480-489
- Predictive Control of Networked Nonlinear Multiagent Systems With Communication Constraints. *Liu, G., TSMC Nov. 2020 4447-4457*
- Prescribed Performance Controller Design for DC Converter System With Constant Power Loads in DC Microgrid. *Xu*, *X.*, +, *TSMC Nov. 2020 4339-4348*
- Prescribed Performance Tracking Control of a Class of Uncertain Pure-Feedback Nonlinear Systems With Input Saturation. *Yang, Y.*, +, *TSMC May* 2020 1733-1745
- Prescribed Performance-Based Consensus of Nonlinear Multiagent Systems With Unknown Control Directions and Switching Networks. *Liu, Y.*, +, *TSMC Feb. 2020 609-616*
- Quantized Data Driven Iterative Learning Control for a Class of Nonlinear Systems With Sensor Saturation. *Bu*, *X*., +, *TSMC Dec. 2020 5119-5129*
- Realization of Exact Tracking Control for Nonlinear Systems via a Nonrecursive Dynamic Design. Zhang, C., +, TSMC Feb. 2020 577-589
- Reducing the Conservatism of Stabilization for Discrete-Time Takagi– Sugeno Fuzzy Systems via a New Extended Representation Approach. *Xie*, *X.*, +, *TSMC Nov. 2020 4387-4393*
- Reinforcement Learning Neural Network-Based Adaptive Control for State and Input Time-Delayed Wheeled Mobile Robots. *Li*, *S.*, +, *TSMC Nov.* 2020 4171-4182
- Reinforcement Q-Learning Algorithm for H<sub>∞</sub> Tracking Control of Unknown Discrete-Time Linear Systems. *Peng, Y.*, +, *TSMC Nov. 2020 4109-4122*
- Reliable Leader-to-Follower Formation Control of Multiagent Systems Under Communication Quantization and Attacks. *Huang, X., +, TSMC Jan. 2020 89-99*
- Resilient Asynchronous H<sub>∞</sub> Control for Discrete-Time Markov Jump Singularly Perturbed Systems Based on Hidden Markov Model. *Li*, *F.*, +, *TSMC Aug.* 2020 2860-2869
- Resilient Nonlinear Control for Attacked Cyber-Physical Systems. *Pang, Y.*, +, *TSMC June 2020 2129-2138*
- Robust Adaptive Fault-Tolerant Tracking Control for Uncertain Linear Systems With Actuator Failures Based on the Closed-Loop Reference Model. *Xiao, S.*, +, *TSMC Sept. 2020 3448-3455*
- Robust Adaptive Fuzzy Tracking Control for Uncertain MIMO Nonlinear Nonminimum Phase System. *Hu*, *X*., +, *TSMC June 2020 2017-2028*
- Robust Bipartite Consensus and Tracking Control of High-Order Multiagent Systems With Matching Uncertainties and Antagonistic Interactions. *Liu*, *M.*, +, *TSMC July 2020 2541-2550*

- Robust Hybrid Nonlinear Control Systems for the Dynamics of a Quadcopter Drone. Santoso, F., +, TSMC Aug. 2020 3059-3071
- Robust Optimal Control for Disturbed Nonlinear Zero-Sum Differential Games Based on Single NN and Least Squares. *Song, R.*, +, *TSMC Nov.* 2020 4009-4019
- Robust Optimal Control Scheme for Unknown Constrained-Input Nonlinear Systems via a Plug-n-Play Event-Sampled Critic-Only Algorithm. *Zhang*, H., +, TSMC Sept. 2020 3169-3180
- Sampled-Data Synchronization of Network Systems in Industrial Manufacture. Wu, Y., +, TSMC Sept. 2020 3210-3219
- Self-Triggered and Event-Triggered Control for Linear Systems With Quantization. Zhou, T., +, TSMC Sept. 2020 3136-3144
- Self-Triggered State-Feedback Control for Stochastic Nonlinear Systems With Markovian Switching. Xie, W., +, TSMC Sept. 2020 3200-3209
- Stabilization of Canonical Systems via Adaptive Chattering Free Sliding Modes With No Singularity Problems. Aghababa, M.P., TSMC May 2020 1696-1703
- Switching Adaptive Controller for the Nonlinear Systems With Uncertainties From Unknown Powers. Wang, M., +, TSMC July 2020 2375-2385
- TS Fuzzy Model-Based Controller Design for a Class of Nonlinear Systems Including Nonsmooth Functions. *Vafamand, N.*, +, *TSMC Jan. 2020 233-*244
- Two-Phase Attractors for Finite-Duration Consensus of Multiagent Systems. Sun, M., TSMC May 2020 1757-1765
- Value Iteration-Based H<sub>∞</sub> Controller Design for Continuous-Time Nonlinear Systems Subject to Input Constraints. *Zhang, H., +, TSMC Nov. 2020* 3986-3995

## Nonlinear differential equations

- Estimator-Based H<sub>∞</sub> Sampled-Data Fuzzy Control for Nonlinear Parabolic PDE Systems. Wang, Z., +, TSMC July 2020 2491-2500
- Perimeter Control of Multiregion Urban Traffic Networks With Time-Varying Delays. Wan, Y, +, TSMC Aug. 2020 2795-2803

## Nonlinear dynamical systems

- A Neural Adaptive Approach for Active Fault-Tolerant Control Design in UAV. *Abbaspour, A., +, TSMC Sept. 2020 3401-3411*
- An Incremental Probability Model for Dynamic Systems. Kohn, W., +, TSMC June 2020 2083-2092
- Asynchronous Quasi-Consensus of Heterogeneous Multiagent Systems With Nonuniform Input Delays. Wang, Z., +, TSMC Aug. 2020 2815-2827
- Iterative Identification of Hammerstein Parameter Varying Systems With Parameter Uncertainties Based on the Variational Bayesian Approach. *Ma*, *J.*, +, *TSMC March 2020 1035-1045*
- Parameters Variation-Based Synchronization on Derivative Coupled Lur'e Networks. *Tang, Z.*, +, *TSMC Dec. 2020 5395-5405*

### Nonlinear equations

- Finding Multiple Roots of Nonlinear Equation Systems via a Repulsion-Based Adaptive Differential Evolution. *Gong, W.*, +, *TSMC April* 2020 1499-1513
- Solving Nonlinear Equations System With Dynamic Repulsion-Based Evolutionary Algorithms. *Liao, Z.*, +, *TSMC April 2020 1590-1601*

#### Nonlinear filters

- Compensating Delays and Noises in Motion Control of Autonomous Electric Vehicles by Using Deep Learning and Unscented Kalman Predictor. *Li*, *Y*, +, *TSMC Nov. 2020 4326-4338*
- Simultaneous Input and State Estimation for Integrated Motor-Transmission Systems in a Controller Area Network Environment via an Adaptive Unscented Kalman Filter. Jiang, K., +, TSMC April 2020 1570-1579

#### **Nonlinear functions**

Decentralized Adaptive NN Output-Feedback Fault Compensation Control of Nonlinear Switched Large-Scale Systems With Actuator Dead-Zones. *Ma*, *Z*., +, *TSMC Sept. 2020 3435-3447* 

### Numerical analysis

- Event-Triggered Sliding Mode Control for Attitude Stabilization of a Rigid Spacecraft. *Liu*, *Y*, +, *TSMC Sept. 2020 3290-3299*
- Recovering Network Structures With Time-Varying Nodal Parameters. Wang, X., +, TSMC July 2020 2588-2598

# 0

- A UAV Video Dataset for Mosaicking and Change Detection From Low-Altitude Flights. Avola, D., +, TSMC June 2020 2139-2149
- Detecting Seam-Carved Image by Extreme Learning Machines Using Patch Analysis Method, Jury Voting, and Combinatorial Fusion. *Cheng, H.*, +, *TSMC May 2020 1850-1864*
- Detection of Power Line Insulator Defects Using Aerial Images Analyzed With Convolutional Neural Networks. *Tao, X.*, +, *TSMC April 2020 1486-1498*
- Feasibility Study and Conceptual Design of Missile-Borne Synthetic Aperture Radar. Saeedi, J., TSMC March 2020 1122-1133
- Online Rail Surface Inspection Utilizing Spatial Consistency and Continuity. Gan, J., +, TSMC July 2020 2741-2751

## **Object recognition**

**Object detection** 

- A UAV Video Dataset for Mosaicking and Change Detection From Low-Altitude Flights. Avola, D., +, TSMC June 2020 2139-2149
- Cross-Modal Zero-Shot-Learning for Tactile Object Recognition. *Liu*, *H*., +, *TSMC July 2020 2466-2474*
- Multisource Domain Attribute Adaptation Based on Adaptive Multikernel Alignment Learning. *Wang, X., +, TSMC May 2020 1897-1908*
- Real-Time Recurrent Tactile Recognition: Momentum Batch-Sequential Echo State Networks. Cao, L., +, TSMC April 2020 1350-1361

## **Object tracking**

- A UAV Video Dataset for Mosaicking and Change Detection From Low-Altitude Flights. *Avola, D.*, +, *TSMC June 2020 2139-2149*
- An Interventionalist-Behavior-Based Data Fusion Framework for Guidewire Tracking in Percutaneous Coronary Intervention. *Zhou, X.*, +, *TSMC Nov.* 2020 4836-4849

#### **Object-oriented languages**

An Extended Object Constraint Language for Adaptive Discrete Event Systems With Application to Reconfigurable Wireless Sensor Networks. *Grichi*, H., +, TSMC Oct. 2020 3562-3576

## Object-oriented programming

Adaptive Discrete Event Simulation Systems to Embrace Changes of Requirements Using Event Control Models. *Kwon, S.J.*, +, *TSMC March* 2020 1147-1160

## Observers

- Active Control of Uncertain Seat Suspension System Based on a State and Disturbance Observer. *Lathkar, M.S.*, +, *TSMC March 2020 840-850*
- Adaptive Fault-Tolerant H-Infinity Output Feedback Control for Lead–Wing Close Formation Flight. *Liu*, *C.*, +, *TSMC Aug. 2020 2804-2814*
- Consensus of Discrete-Time Multiagent Systems With State, Input, and Communication Delays. *Liu*, *Q*., +, *TSMC Nov. 2020 4425-4437*
- Consensus of Lipschitz Nonlinear Multiagent Systems With Input Delay via Observer-Based Truncated Prediction Feedback. *Chu, H., +, TSMC Oct.* 2020 3784-3794
- Consensus of Upper-Triangular Multiagent Systems With Sampled and Delayed Measurements via Output Feedback. *Li, F.*, +, *TSMC Feb. 2020* 600-608
- Control Performance-Based Fault-Tolerant Control Strategy for Singular Systems. *Liu*, *D.*, +, *TSMC July 2020 2398-2407*
- Decentralized Adaptive NN Output-Feedback Fault Compensation Control of Nonlinear Switched Large-Scale Systems With Actuator Dead-Zones. *Ma*, *Z*., +, *TSMC Sept. 2020 3435-3447*
- Distributed Fault Detection and Isolation for Multiagent Systems: An Interval Observer Approach. *Zhang, Z., +, TSMC June 2020 2220-2230*
- Distributed Fault Estimation for a Class of Nonlinear Multiagent Systems. Liu, X., +, TSMC Sept. 2020 3382-3390
- Distributed Observer-Based Consensus Over Directed Networks With Limited Communication Bandwidth Constraints. *Rong, L.*, +, *TSMC Dec. 2020* 5361-5368
- Disturbance Rejection of Nonlinear Boiler–Turbine Unit Using High-Order Sliding Mode Observer. *Su, Z.*, +, *TSMC Dec. 2020 5432-5443*
- Disturbance-Observer-Based Fault Tolerant Control of High-Speed Trains: A Markovian Jump System Model Approach. *Yao, X.*, +, *TSMC April 2020* 1476-1485

- Event-Driven Guaranteed Cost Control Design for Nonlinear Systems With Actuator Faults via Reinforcement Learning Algorithm. *Zhang, H.*, +, *TSMC Nov. 2020 4135-4150*
- Finite-Time Adaptive Fuzzy Decentralized Control for Nonstrict-Feedback Nonlinear Systems With Output-Constraint. *Li, K.*, +, *TSMC Dec. 2020* 5271-5284
- Finite-Time Time-Varying Formation Tracking for High-Order Multiagent Systems With Mismatched Disturbances. *Hua, Y.*, +, *TSMC Oct. 2020* 3795-3803
- Fixed-Time Sliding Mode Disturbance Observer-Based Nonsmooth Backstepping Control for Hypersonic Vehicles. Sun, J., +, TSMC Nov. 2020 4377-4386
- Formation Control of Multiple Mobile Robots Incorporating an Extended State Observer and Distributed Model Predictive Approach. *Liu, A.*, +, *TSMC Nov. 2020 4587-4597*
- Fuzzy Adaptive Output Feedback Control for MIMO Switched Nontriangular Structure Nonlinear Systems With Unknown Control Directions. *Huang, L.*, +, *TSMC Feb. 2020 550-564*
- Image Dynamics-Based Visual Servoing for Quadrotors Tracking a Target With a Nonlinear Trajectory Observer. *Cao, Z.*, +, *TSMC Jan. 2020 376-384*
- Interval Observers Design for Polynomial Fuzzy Singular Systems by Utilizing Sum-of-Squares Program. Pang, B., +, TSMC June 2020 1999-2006
- Network-to-Network Control Over Heterogeneous Topologies: A Dynamic Graph Approach. *Meng, D., +, TSMC May 2020 1885-1896*
- Neural Networks-Based Active Fault-Tolerant Control for a Class of Switched Nonlinear Systems With Its Application to RCL Circuit. *Tang*, L., +, *TSMC Nov. 2020 4270-4282*
- Observer-Based Adaptive Finite-Time Quantized Tracking Control of Nonstrict-Feedback Nonlinear Systems With Asymmetric Actuator Saturation. *Yu*, *Z*., +, *TSMC Nov. 2020 4545-4556*
- Observer-Based Adaptive Sliding Mode Control for T–S Fuzzy Singular Systems. Sun, X., +, TSMC Nov. 2020 4438-4446
- Observer-Based Consensus of Nonlinear Multiagent Systems With Relative State Estimate Constraints. Chu, H., +, TSMC July 2020 2456-2465
- Observer-Based Integral Sliding Mode Tracking Control for a Pneumatic Cylinder With Varying Loads. *Zhao, L.*, +, *TSMC July 2020 2650-2658*
- Observer-Based Synchronization of Chaotic Systems Satisfying Incremental Quadratic Constraints and Its Application in Secure Communication. *Zhao, Y., +, TSMC Dec. 2020 5221-5232*
- Pareto Set Selection for Multiobjective Stochastic Simulation Model. *Choi,* S.H., +, TSMC Nov. 2020 4256-4269
- Practically Finite-Time Control for Nonlinear Systems With Mismatching Conditions and Application to a Robot System. *Min, H.*, +, *TSMC Feb.* 2020 480-489
- Prescribed Performance Controller Design for DC Converter System With Constant Power Loads in DC Microgrid. Xu, X., +, TSMC Nov. 2020 4339-4348
- Prescribed Performance Tracking Control of a Class of Uncertain Pure-Feedback Nonlinear Systems With Input Saturation. *Yang, Y.*, +, *TSMC May* 2020 1733-1745
- Prescribed Performance-Based Consensus of Nonlinear Multiagent Systems With Unknown Control Directions and Switching Networks. *Liu, Y.*, +, *TSMC Feb. 2020 609-616*
- Robust Ground Reaction Force Estimation and Control of Lower-Limb Prostheses: Theory and Simulation. Azimi, V., +, TSMC Aug. 2020 3024-3035
- Sampled-Data State Estimation for Complex Networks With Partial Measurements. Zhou, D., +, TSMC Nov. 2020 4787-4795
- Self-Triggered and Event-Triggered Control for Linear Systems With Quantization. Zhou, T., +, TSMC Sept. 2020 3136-3144
- Simultaneous Input and State Estimation for Integrated Motor-Transmission Systems in a Controller Area Network Environment via an Adaptive Unscented Kalman Filter. *Jiang, K.*, +, *TSMC April 2020 1570-1579*

Stock Management Problem: Adaptive Fixed-Time Convergent Continuous Controller Design. *Basin, M.V.,* +, *TSMC Dec. 2020 4974-4983*  The Specified Finite-Time Distributed Observers-Based Velocity-Free Attitude Synchronization for Rigid Bodies on SO(3). *Peng, X.*, +, *TSMC April* 2020 1610-1621

### Ocean thermal energy conversion

Robust Adaptive Control of an Offshore Ocean Thermal Energy Conversion System. *He*, *X.*, +, *TSMC Dec. 2020 5285-5295* 

#### **Oceanographic techniques**

A Review on Intelligence Dehazing and Color Restoration for Underwater Images. Han, M., +, TSMC May 2020 1820-1832

### **OFDM modulation**

A Robust Game-Based Algorithm for Downlink Joint Resource Allocation in Hierarchical OFDMA Femtocell Network System. Yu, J., +, TSMC July 2020 2445-2455

## **Offshore installations**

Robust Adaptive Control of an Offshore Ocean Thermal Energy Conversion System. *He, X.*, +, *TSMC Dec. 2020 5285-5295* 

## **Operations research**

Criteria Making in Role Negotiation. *Zhu, X.*, +, *TSMC Oct. 2020 3731-3740* Optical design techniques

Mirror Angle Tuning of Electromagnetic Micro-Mirrors With Oscillation Compensation. Dong, R., +, TSMC Aug. 2020 2969-2977

## Optical tuning

Mirror Angle Tuning of Electromagnetic Micro-Mirrors With Oscillation Compensation. Dong, R., +, TSMC Aug. 2020 2969-2977

## **Optimal control**

- Adaptive Critic Learning and Experience Replay for Decentralized Event-Triggered Control of Nonlinear Interconnected Systems. *Yang, X.*, +, *TSMC Nov. 2020 4043-4055*
- Adaptive Dynamic Programming for Decentralized Stabilization of Uncertain Nonlinear Large-Scale Systems With Mismatched Interconnections. *Yang, X., +, TSMC Aug. 2020 2870-2882*
- Adaptive Dynamics Programming for  $H_{\infty}$  Control of Continuous-Time Unknown Nonlinear Systems via Generalized Fuzzy Hyperbolic Models. *Su, H.*, +, *TSMC Nov. 2020 3996-4008*
- ADP-Based Robust Tracking Control for a Class of Nonlinear Systems With Unmatched Uncertainties. *Mu, C.*, +, *TSMC Nov. 2020 4056-4067*
- Balancing Value Iteration and Policy Iteration for Discrete-Time Control. Luo, B., +, TSMC Nov. 2020 3948-3958
- Distributed  $H_{\infty}$  Optimal Tracking Control for Strict-Feedback Nonlinear Large-Scale Systems With Disturbances and Saturating Actuators. *Tan, L.N., TSMC Nov. 2020 4719-4731*
- Distributed Optimal Steady-State Regulation for High-Order Multiagent Systems With External Disturbances. *Tang, Y., TSMC Nov. 2020 4828-*4835
- Editorial Special Issue on Adaptive Dynamic Programming and Reinforcement Learning. *Liu*, *D*., +, *TSMC Nov. 2020 3944-3947*
- Event-Driven Guaranteed Cost Control Design for Nonlinear Systems With Actuator Faults via Reinforcement Learning Algorithm. *Zhang, H.*, +, *TSMC Nov. 2020 4135-4150*
- Event-Triggered Adaptive Critic Control Design for Discrete-Time Constrained Nonlinear Systems. *Ha*, *M.*, +, *TSMC Sept. 2020 3158-3168*
- Event-Triggered Adaptive Dynamic Programming for Zero-Sum Game of Partially Unknown Continuous-Time Nonlinear Systems. *Xue, S.*, +, *TSMC Sept. 2020 3189-3199*
- Event-Triggered Integral Sliding-Mode Control for Nonlinear Constrained-Input Systems With Disturbances via Adaptive Dynamic Programming. *Yang, D.*, +, *TSMC Nov. 2020 4086-4096*
- Event-Triggered Robust Stabilization of Nonlinear Input-Constrained Systems Using Single Network Adaptive Critic Designs. *Yang, X.*, +, *TSMC Sept. 2020 3145-3157*
- Exploiting Symmetry of Discrete-Event Systems by Relabeling and Reconfiguration. Jiao, T., +, TSMC June 2020 2056-2067
- GrHDP Solution for Optimal Consensus Control of Multiagent Discrete-Time Systems. Zhong, X., +, TSMC July 2020 2362-2374

- $H_{\infty}$  Tracking Control of Discrete-Time System With Delays via Data-Based Adaptive Dynamic Programming. *Liu*, *Y*, +, *TSMC Nov. 2020 4078-4085*
- Model-Free Distributed Consensus Control Based on Actor–Critic Framework for Discrete-Time Nonlinear Multiagent Systems. *Wang, W.*, +, *TSMC Nov. 2020 4123-4134*
- Neuro-Optimal Control for Discrete Stochastic Processes via a Novel Policy Iteration Algorithm. *Liang, M.*, +, *TSMC Nov. 2020 3972-3985*
- Nonlinear Multiobjective MPC-Based Optimal Operation of a High Consistency Refining System in Papermaking. *Li, M.*, +, *TSMC March 2020 1208-1215*
- Optimal Setting and Control for Iron Removal Process Based on Adaptive Neural Network Soft-Sensor. Xie, S., +, TSMC July 2020 2408-2420
- Parameter Optimization of Reduced Fluid Model via Sparse Point Measurements. Zhou, S., +, TSMC Dec. 2020 5201-5210
- Predictive Control of Networked Nonlinear Multiagent Systems With Communication Constraints. *Liu, G., TSMC Nov. 2020 4447-4457*
- Robust Optimal Control for Disturbed Nonlinear Zero-Sum Differential Games Based on Single NN and Least Squares. *Song, R.*, +, *TSMC Nov.* 2020 4009-4019
- Robust Optimal Control Scheme for Unknown Constrained-Input Nonlinear Systems via a Plug-n-Play Event-Sampled Critic-Only Algorithm. *Zhang, H.*, +, *TSMC Sept. 2020 3169-3180*
- Robust Science-Optimal Spacecraft Control for Circular Orbit Missions. Nasir, A., +, TSMC March 2020 923-934
- The Design of Quasi-Optimal Higher Order Sliding Mode Control via Disturbance Observer and Switching-Gain Adaptation. *Li*, *P*, +, *TSMC Nov.* 2020 4817-4827
- Value Iteration-Based  $H_{\infty}$  Controller Design for Continuous-Time Nonlinear Systems Subject to Input Constraints. *Zhang, H.*, +, *TSMC Nov. 2020* 3986-3995

#### Optimization

- A Cooperative Distributed Model Predictive Control Approach to Supply Chain Management. Fu, D., +, TSMC Dec. 2020 4894-4904
- A Heuristic Approach for Selecting Best-Subset Including Ranking Within the Subset. Choi, S.H., +, TSMC Oct. 2020 3852-3862
- A Knowledge-Based Cooperative Algorithm for Energy-Efficient Scheduling of Distributed Flow-Shop. Wang, J., +, TSMC May 2020 1805-1819
- A Novel Diagonal Class Entropy-Based Multilevel Image Thresholding Using Coral Reef Optimization. *Agrawal, S.*, +, *TSMC Nov. 2020 4688-4696*
- A Utility Driven Post Disaster Emergency Resource Allocation System Using DTN. *Basu, S., +, TSMC July 2020 2338-2350*
- An Evaluation and Optimization Methodology for Efficient Power Plant Programs. Han, W., +, TSMC Feb. 2020 707-716
- An I-frame Methodology for Approximating Nonlinear Least Squares. Placek, P.C., +, TSMC April 2020 1362-1371
- Analysis of Consensus-Based Economic Dispatch Algorithm Under Time Delays. Zhao, C., +, TSMC Aug. 2020 2978-2988
- Continuous State Feedback Control Based on Intelligent Optimization for First-Order Nonholonomic Systems. *Lai*, X., +, *TSMC July 2020 2534-2540*
- Cooperative Optimization of Dual Multiagent System for Optimal Resource Allocation. *Li, K.*, +, *TSMC Nov. 2020 4676-4687*
- Cross-Modal Zero-Shot-Learning for Tactile Object Recognition. *Liu*, *H*., +, *TSMC July 2020 2466-2474*
- Distributed Continuous-Time Optimization With Scalable Adaptive Event-Based Mechanisms. *Wu, Z., +, TSMC Sept. 2020 3252-3257*
- Efficient Sensor Deployments for Spatio-Temporal Environmental Monitoring. Nguyen, L., +, TSMC Dec. 2020 5306-5316
- Estimator-Based H<sub>∞</sub> Sampled-Data Fuzzy Control for Nonlinear Parabolic PDE Systems. *Wang, Z.*, +, *TSMC July 2020 2491-2500*
- Formation Control of Multiple Mobile Robots Incorporating an Extended State Observer and Distributed Model Predictive Approach. *Liu, A.*, +, *TSMC Nov. 2020 4587-4597*
- Guest Editorial to the Special Issue on Logistics and Supply Chain Systems Engineering. *Choi, T., TSMC Dec. 2020 4852-4855*

- Incorporating Discrete Constraints Into Random Walk-Based Graph Matching. Yang, X., +, TSMC April 2020 1406-1416
- ManuChain: Combining Permissioned Blockchain With a Holistic Optimization Model as Bi-Level Intelligence for Smart Manufacturing. *Leng, J.*, +, *TSMC Jan. 2020 182-192*
- Matrix Function Optimization Problems Under Orthonormal Constraint. Li, G., +, TSMC March 2020 802-814
- Maximizing Group Performance While Minimizing Budget. Zhu, H., TSMC Feb. 2020 633-645
- Multiobjective Differential Evolution With Personal Archive and Biased Self-Adaptive Mutation Selection. *Wang, X.*, +, *TSMC Dec. 2020 5338-5350*
- Multiobjective Scheduling of Dual-Blade Robotic Cells in Wafer Fabrication. Zhu, Q., +, TSMC Dec. 2020 5015-5023
- N-Step MPC for Systems With Persistent Bounded Disturbances Under SCP. Song, Y., +, TSMC Nov. 2020 4762-4772
- Optimal Dynamic Pricing for Trading-Off User Utility and Operator Profit in Smart Grid. Ferdous, J., +, TSMC Feb. 2020 455-467
- Parameter Optimization of Reduced Fluid Model via Sparse Point Measurements. Zhou, S., +, TSMC Dec. 2020 5201-5210
- Performance Optimization of Reconfigurable Real-Time Wireless Sensor Networks. *Gasmi, M., +, TSMC July 2020 2623-2637*
- Random Gradient-Free Optimization for Multiagent Systems With Communication Noises Under a Time-Varying Weight Balanced Digraph. *Wang*, D., +, TSMC Jan. 2020 281-289
- Reweighted Price Relative Tracking System for Automatic Portfolio Optimization. Lai, Z., +, TSMC Nov. 2020 4349-4361
- Securing Data in Internet of Things (IoT) Using Cryptography and Steganography Techniques. *Khari, M., +, TSMC Jan. 2020 73-80*
- Sparse Proximal Reinforcement Learning via Nested Optimization. Song, T., +, TSMC Nov. 2020 4020-4032
- Stabilization of Linear Systems With Input Saturation and Large Delay. Li, P., +, TSMC Nov. 2020 4482-4491
- Structural Sparsity in Networked Control Systems. *Florez, A.J.*, +, *TSMC Dec. 2020 5152-5161*
- Target State and Markovian Jump Ionospheric Height Bias Estimation for OTHR Tracking Systems. *Geng, H.*, +, *TSMC July 2020 2599-2611*
- The Spiral Optimization Algorithm: Convergence Conditions and Settings. *Tamura, K.*, +, *TSMC Jan. 2020 360-375*
- Tri-Goal Evolution Framework for Constrained Many-Objective Optimization. Zhou, Y., +, TSMC Aug. 2020 3086-3099
- Unifying Analytical Methods With Numerical Methods for Traffic System Modeling and Control. *Zhang, Y.*, +, *TSMC June 2020 2068-2082*

## Organizational aspects

- A Decision Support Approach to Liquidate a Distressed Debt Network. Liang, L., +, TSMC April 2020 1242-1251
- Target or Not? Endogenous Advertising Strategy Under Competition. Zhang, J., +, TSMC Nov. 2020 4472-4481
- Value of Bargaining Contract in a Supply Chain System With Sustainability Investment: An Incentive Analysis. *Shi*, X., +, *TSMC April 2020 1622-1634*

## Oscillators

Asymptotic Frequency Synchronization of Kuramoto Model by Step Force. Mao, Y., +, TSMC Aug. 2020 2768-2778

#### Oxygen

Optimal Setting and Control for Iron Removal Process Based on Adaptive Neural Network Soft-Sensor. *Xie, S.*, +, *TSMC July 2020 2408-2420* 

## Р

#### Pacemakers

Model-Based Monitoring and Adaptation of Pacemaker Behavior Using Hierarchical Fuzzy Colored Petri-Nets. *Majma, N.*, +, *TSMC Sept. 2020* 3344-3357

## Paper industry

Nonlinear Multiobjective MPC-Based Optimal Operation of a High Consistency Refining System in Papermaking. *Li*, *M.*, +, *TSMC March 2020 1208-1215* 

#### Paper making

Nonlinear Multiobjective MPC-Based Optimal Operation of a High Consistency Refining System in Papermaking. Li, M., +, TSMC March 2020 1208-1215

#### Parabolic equations

Estimator-Based  $H_{\infty}$  Sampled-Data Fuzzy Control for Nonlinear Parabolic PDE Systems. *Wang, Z., +, TSMC July 2020 2491-2500* 

#### Parallel processing

Automating the Configuration of MapReduce: A Reinforcement Learning Scheme. Mu, T., +, TSMC Nov. 2020 4183-4196

## **Parameter estimation**

- A Modeling Method of Electromagnetic Micromirror in Random Noisy Environment. Cao, Q., +, TSMC July 2020 2578-2587
- A Robust Adaptive Model Reference Impedance Control of a Robotic Manipulator With Actuator Saturation. *Arefinia, E., +, TSMC Feb. 2020* 409-420
- Iterative Identification of Hammerstein Parameter Varying Systems With Parameter Uncertainties Based on the Variational Bayesian Approach. *Ma*, *J.*, +, *TSMC March 2020 1035-1045*
- Robust Ground Reaction Force Estimation and Control of Lower-Limb Prostheses: Theory and Simulation. *Azimi, V.*, +, *TSMC Aug. 2020 3024-3035* Utility-Based Model for Characterizing the Evolution of Social Networks.

Li, Y., +, TSMC March 2020 1083-1094

## Pareto optimization

- A Hybrid Multiobjective Memetic Algorithm for Multiobjective Periodic Vehicle Routing Problem With Time Windows. *Wang, J.*, +, *TSMC Nov.* 2020 4732-4745
- Bi-Objective Optimal Scheduling With Raw Material's Shelf-Life Constraints in Unrelated Parallel Machines Production. *Wang, M.*, +, *TSMC Nov. 2020 4598-4610*
- Deadlock-Free Scheduling of Flexible Assembly Systems Based on Petri Nets and Local Search. *Luo, J.*, +, *TSMC Oct. 2020 3658-3669*
- Information Sharing in a Supply Chain With a Coopetitive Contract Manufacturer. Wang, J., +, TSMC May 2020 1777-1793
- Nonlinear Multiobjective MPC-Based Optimal Operation of a High Consistency Refining System in Papermaking. *Li, M.*, +, *TSMC March 2020 1208-1215*
- Pareto Set Selection for Multiobjective Stochastic Simulation Model. *Choi, S.H.*, +, *TSMC Nov. 2020 4256-4269*
- Value of Bargaining Contract in a Supply Chain System With Sustainability Investment: An Incentive Analysis. Shi, X., +, TSMC April 2020 1622-1634

#### Partial differential equations

- Estimator-Based  $H_{\infty}$  Sampled-Data Fuzzy Control for Nonlinear Parabolic PDE Systems. *Wang, Z.*, +, *TSMC July 2020 2491-2500*
- On the Solvability of Feedback Complete Linearization of Nonlinear Stochastic Systems. *Beheshtipour, Z., +, TSMC March 2020 1074-1082*
- Parameter Optimization of Reduced Fluid Model via Sparse Point Measurements. Zhou, S., +, TSMC Dec. 2020 5201-5210

Robust Adaptive Control of an Offshore Ocean Thermal Energy Conversion System. *He*, *X*., +, *TSMC Dec. 2020 5285-5295* 

#### Particle filtering (numerical methods)

Gradient-Based Particle Filter Algorithm for an ARX Model With Nonlinear Communication Output. *Chen, J.*, +, *TSMC June 2020 2198-2207* 

## Particle swarm optimization

- A Robust Game-Based Algorithm for Downlink Joint Resource Allocation in Hierarchical OFDMA Femtocell Network System. Yu, J., +, TSMC July 2020 2445-2455
- Accelerated Two-Stage Particle Swarm Optimization for Clustering Not-Well-Separated Data. Xu, X., +, TSMC Nov. 2020 4212-4223
- Bi-Objective Optimal Scheduling With Raw Material's Shelf-Life Constraints in Unrelated Parallel Machines Production. *Wang, M.*, +, *TSMC Nov. 2020 4598-4610*
- Color Filter Polishing Optimization Using ANFIS With Sliding-Level Particle Swarm Optimizer. *Tsai*, J., +, *TSMC March 2020 1193-1207*
- Joint Energy, Maintenance, and Throughput Modeling for Sustainable Manufacturing Systems. Sun, Z., +, TSMC June 2020 2101-2112
- Quantitative Modeling and Analytical Calculation of Anelasticity for a Cyber-Physical System. Gong, H., +, TSMC Nov. 2020 4746-4761

Solving Nonlinear Equations System With Dynamic Repulsion-Based Evolutionary Algorithms. *Liao*, Z., +, *TSMC April 2020 1590-1601* 

# Path planning

- A New Repetitive Motion Planning Scheme With Noise Suppression Capability for Redundant Robot Manipulators. *Li*, *Z*., +, *TSMC Dec. 2020 5244-5254*
- A Self-Repairing Algorithm With Optimal Repair Path for Maintaining Motion Synchronization of Mobile Robot Network. *Liu, Z.*, +, *TSMC March* 2020 815-828
- A Triangulation-Based Coverage Path Planning. An, V., +, TSMC June 2020 2157-2169
- An Efficient Computing of Correlated Equilibrium for Cooperative *Q*-Learning-Based Multi-Robot Planning. *Sadhu, A.K.*, +, *TSMC Aug. 2020 2779-2794*
- Context-Aware Decision Support for Anti-Submarine Warfare Mission Planning Within a Dynamic Environment. *Mishra, M.*, +, *TSMC Jan. 2020* 318-335
- Robot Path Planning Using Analog Circuit Phase Delay. Garvey, S., +, TSMC Oct. 2020 3898-3911
- Robust Tube-Based Model Predictive Control for Lane Change Maneuver of Tractor-Trailer Vehicles Based on a Polynomial Trajectory. Yue, M., +, TSMC Dec. 2020 5180-5188

## Patient rehabilitation

Human-Inspired Control of Dual-Arm Exoskeleton Robots With Force and Impedance Adaptation. Li, Z., +, TSMC Dec. 2020 5296-5305

#### Pattern classification

- Applying Exponential Family Distribution to Generalized Extreme Learning Machine. Jia, Y., +, TSMC May 2020 1794-1804
- Classifying With Adaptive Hyper-Spheres: An Incremental Classifier Based on Competitive Learning. Li, T., +, TSMC April 2020 1218-1229
- Clustering Based on Supervised Learning of Exemplar Discriminative Information. *Duan, L.*, +, *TSMC Dec. 2020 5255-5270*
- Multidomain Features-Based GA Optimized Artificial Immune System for Bearing Fault Detection. *Abid*, *A.*, +, *TSMC Jan. 2020 348-359*
- Multisource Domain Attribute Adaptation Based on Adaptive Multikernel Alignment Learning. *Wang, X., +, TSMC May 2020 1897-1908*
- One-Class Convex Hull-Based Algorithm for Classification in Distributed Environments. Fernandez-Francos, D., +, TSMC Feb. 2020 386-396
- Online Heterogeneous Face Recognition Based on Total-Error-Rate Minimization. Jang, S., +, TSMC April 2020 1286-1299
- Self-Adaptive Framework for Efficient Stream Data Classification on Storm. Deng, S., +, TSMC Jan. 2020 123-136
- Time-Variant Graph Classification. Wang, H., +, TSMC Aug. 2020 2883-2896

## Pattern clustering

- A Clustering-Based Nonlinear Ensemble Approach for Exchange Rates Forecasting. Sun, S., +, TSMC June 2020 2284-2292
- Accelerated Two-Stage Particle Swarm Optimization for Clustering Not-Well-Separated Data. Xu, X., +, TSMC Nov. 2020 4212-4223
- Clustering Based on Supervised Learning of Exemplar Discriminative Information. *Duan, L.*, +, *TSMC Dec. 2020 5255-5270*
- Collaborative Learning-Based Clustered Support Vector Machine for Modeling of Nonlinear Processes Subject to Noise. *Lu*, *X.*, +, *TSMC Dec. 2020* 5162-5171
- Data-Driven Fuzzy Modeling Using Restricted Boltzmann Machines and Probability Theory. *de la Rosa, E., +, TSMC July 2020 2316-2326*
- EventiC: A Real-Time Unbiased Event-Based Learning Technique for Complex Systems. Danishvar, M., +, TSMC May 2020 1649-1662
- Fast Exemplar-Based Clustering by Gravity Enrichment Between Data Objects. *Zhang*, Y., +, *TSMC Aug*. 2020 2996-3009
- Improving Bitcoin Ownership Identification Using Transaction Patterns Analysis. Chang, T., +, TSMC Jan. 2020 9-20
- Multidomain Features-Based GA Optimized Artificial Immune System for Bearing Fault Detection. *Abid*, *A.*, +, *TSMC Jan.* 2020 348-359
- Multisource Domain Attribute Adaptation Based on Adaptive Multikernel Alignment Learning. *Wang, X., +, TSMC May 2020 1897-1908*
- Muscle Fatigue Induced Hand Tremor Clustering in Dynamic Laparoscopic Manipulation. Chandra, S., +, TSMC Dec. 2020 5420-5431

- Scalable Mining of Contextual Outliers Using Relevant Subspace. Zhang, J., +, TSMC March 2020 988-1002
- Using Stacked Sparse Auto-Encoder and Superpixel CRF for Long-Term Visual Scene Understanding of UGVs. *Qiu, Z.*, +, *TSMC April 2020 1331-*

#### 1342 Pattern matching

Exploring Trends and Patterns of Popularity Stage Evolution in Social Media. Kong, Q., +, TSMC Oct. 2020 3817-3827

## PD control

Robust Hybrid Nonlinear Control Systems for the Dynamics of a Quadcopter Drone. Santoso, F, +, TSMC Aug. 2020 3059-3071

## Peer-to-peer computing

The Anti-Social System Properties: Bitcoin Network Data Analysis. Alqassem, I., +, TSMC Jan. 2020 21-31

#### Pendulums

- A Theoretical Framework for Stability Regions for Standing Balance of Humanoids Based on Their LIPM Treatment. *Kim, J.H.*, +, *TSMC Nov.* 2020 4569-4586
- Decentralized Adaptive NN Output-Feedback Fault Compensation Control of Nonlinear Switched Large-Scale Systems With Actuator Dead-Zones. *Ma*, *Z*., +, *TSMC Sept. 2020 3435-3447*
- Discrete-Time Neural Network Approach for Tracking Control of Spherical Inverted Pendulum. *Ping, Z.*, +, *TSMC Aug. 2020 2989-2995*
- Dynamic Event-Triggered Control for Leader-Following Consensus of Multiagent Systems. Du, S., +, TSMC Sept. 2020 3243-3251
- Event-Triggered Robust Stabilization of Nonlinear Input-Constrained Systems Using Single Network Adaptive Critic Designs. *Yang, X.*, +, *TSMC Sept. 2020 3145-3157*

## Performance index

- Event-Triggered Adaptive Critic Control Design for Discrete-Time Constrained Nonlinear Systems. *Ha*, *M.*, +, *TSMC Sept. 2020 3158-3168*
- Formation Control of Multiple Mobile Robots Incorporating an Extended State Observer and Distributed Model Predictive Approach. *Liu, A.*, +, *TSMC Nov. 2020 4587-4597*
- Integral Reinforcement Learning-Based Adaptive NN Control for Continuous-Time Nonlinear MIMO Systems With Unknown Control Directions. *Guo, X.*, +, *TSMC Nov. 2020 4068-4077*
- Neuro-Optimal Control for Discrete Stochastic Processes via a Novel Policy Iteration Algorithm. *Liang, M.*, +, *TSMC Nov. 2020 3972-3985*

#### Periodic control

Robust Distributed  $H_{\infty}$  State Estimation for Stochastic Periodic Systems Over Constraint Sensor Networks. *Li*, *J.*, +, *TSMC Nov. 2020 4396-4407* 

## Permanent magnets

Toward a Maneuverable Miniature Robotic Fish Equipped With a Novel Magnetic Actuator System. *Chen, X., +, TSMC July 2020 2327-2337* 

## Personnel

- A System-of-Systems Approach to the Strategic Feasibility of Modular Vehicle Fleets. *Bayrak, A.E.*, +, *TSMC July 2020 2716-2728*
- Markov Modeling and Analysis of Team Communication. *Martinez Ayala*, D.F., +, TSMC April 2020 1230-1241

### **Perturbation techniques**

Estimation for a Class of Parameter-Controlled Tunnel Diode Circuits. Chang, X., +, TSMC Nov. 2020 4697-4707

## Petri nets

- A Distributed Control Approach to Automated Manufacturing Systems With Complex Routes and Operations Using Petri Nets. *Yang, Y.*, +, *TSMC Oct.* 2020 3670-3684
- A Dynamic Data Slice Approach to the Vulnerability Analysis of E-Commerce Systems. Wang, M., +, TSMC Oct. 2020 3598-3612
- A Polynomial-Time Algorithm to Obtain State Machine Cover of Live and Safe Petri Nets. *Karatkevich, A.G.,* +, *TSMC Oct. 2020 3592-3597*
- A Robust Control Approach to Automated Manufacturing Systems Allowing Multitype and Multiquantity of Resources With Petri Nets. *Wang, X.*, +, *TSMC Oct. 2020 3499-3514*

- An Evaluation Framework for Comparative Analysis of Generalized Stochastic Petri Net Simulation Techniques. *Rodriguez, R.J.*, +, *TSMC Aug.* 2020 2834-2844
- Analysis of Unbounded Petri Net With Lean Reachability Trees. Li, J., +, TSMC June 2020 2007-2016
- Control Design for Bounded Partially Controlled TPNs Using Timed Extended Reachability Graphs and MDP. *Lefebvre, D.*, +, *TSMC June 2020 2273-2283*
- Deadlock-Free Scheduling of Flexible Assembly Systems Based on Petri Nets and Local Search. *Luo, J.*, +, *TSMC Oct. 2020 3658-3669*
- Diagnosis of Structural and Temporal Faults for *k*-Bounded Non-Markovian Stochastic Petri Nets. *Lefebvre, D.,* +, *TSMC Sept. 2020 3369-3381*
- Efficient Approach to Scheduling of Transient Processes for Time-Constrained Single-Arm Cluster Tools With Parallel Chambers. *Yang, F.,* +, *TSMC Oct. 2020 3646-3657*
- Fleet Sizing for Electric Car Sharing Systems in Discrete Event System Frameworks. *Fanti, M.P.*, +, *TSMC March 2020 1161-1177*
- Liveness Analysis and Deadlock Control for Automated Manufacturing Systems With Multiple Resource Requirements. *Feng, Y.*, +, *TSMC Feb. 2020* 525-538
- Measurement and Computation of Profile Similarity of Workflow Nets Based on Behavioral Relation Matrix. *Wang, M.*, +, *TSMC Oct. 2020 3628-3645*
- Model-Based Monitoring and Adaptation of Pacemaker Behavior Using Hierarchical Fuzzy Colored Petri-Nets. *Majma, N.*, +, *TSMC Sept. 2020* 3344-3357
- Modeling and Analyzing Dynamic Fault-Tolerant Strategy for Deadline Constrained Task Scheduling in Cloud Computing. Fan, G., +, TSMC April 2020 1260-1274
- Modeling and Evaluation of Service Composition in Commercial Multiclouds Using Timed Colored Petri Nets. *Entezari-Maleki, R., +, TSMC March 2020 947-961*
- Modeling and Optimal Cyclic Scheduling of Time-Constrained Single-Robot-Arm Cluster Tools via Petri Nets and Linear Programming. *Yang, F.,*+, *TSMC March 2020 871-883*
- On Hierarchical Construction of the State Space of an Automated Manufacturing System Modeled With Petri Nets. *Karoui, O.*, +, *TSMC Oct. 2020* 3613-3627
- On Methodology for the Verification of Reconfigurable Timed Net Condition/Event Systems. *Hafidi, Y.*, +, *TSMC Oct. 2020 3577-3591*
- Refinement-Based Hierarchical Modeling and Correctness Verification of Cross-Organization Collaborative Emergency Response Processes. *Duan*, *H.*, +, *TSMC Aug. 2020 2845-2859*
- Resource Conflict Checking and Resolution Controller Design for Cross-Organization Emergency Response Processes. Zeng, Q., +, TSMC Oct. 2020 3685-3700
- Robust Deadlock Prevention for Automated Manufacturing Systems With Unreliable Resources by Using General Petri Nets. *Feng, Y.*, +, *TSMC Oct.* 2020 3515-3527
- Special Issue on Recent Advances in Petri Nets, Automata, and Discrete-Event Hybrid Systems. *Wisniewski, R., +, TSMC Oct. 2020 3484-3487*

### PI control

Distributed PI Control for Consensus of Heterogeneous Multiagent Systems Over Directed Graphs. Lv, Y., +, TSMC April 2020 1602-1609

#### **Piecewise linear techniques**

Multistability of Recurrent Neural Networks With Piecewise-Linear Radial Basis Functions and State-Dependent Switching Parameters. *Guo, Z.*, +, *TSMC Nov. 2020 4458-4471* 

#### Piezoelectric actuators

- A Modeling Method of Electromagnetic Micromirror in Random Noisy Environment. Cao, Q., +, TSMC July 2020 2578-2587
- Laser Beam Pointing Control With Piezoelectric Actuator Model Learning. *Qin, F.*, +, *TSMC March 2020 1024-1034*

#### **Pneumatic actuators**

Observer-Based Integral Sliding Mode Tracking Control for a Pneumatic Cylinder With Varying Loads. *Zhao, L.*, +, *TSMC July 2020 2650-2658* 

#### Pneumodynamics

Pyramidal Lucas—Kanade-Based Noncontact Breath Motion Detection. Tran, Q., +, TSMC July 2020 2659-2670

Pole assignment

- Distributed Consensus of Linear Multiagent Systems: Laplacian Spectra-Based Method. Chen, Y., +, TSMC Feb. 2020 700-706
- Formation Control of Multiple Mobile Robots Incorporating an Extended State Observer and Distributed Model Predictive Approach. *Liu, A.*, +, *TSMC Nov. 2020 4587-4597*
- Realization of Exact Tracking Control for Nonlinear Systems via a Nonrecursive Dynamic Design. Zhang, C., +, TSMC Feb. 2020 577-589

## Polynomial approximation

Discrete-Time Neural Network Approach for Tracking Control of Spherical Inverted Pendulum. *Ping*, Z., +, *TSMC Aug*. 2020 2989-2995

## Polynomials

- Adaptive Stabilization of Discrete-Time Nonminimum Phase Systems. Que, H., +, TSMC Aug. 2020 2828-2833
- Interval Observers Design for Polynomial Fuzzy Singular Systems by Utilizing Sum-of-Squares Program. Pang, B., +, TSMC June 2020 1999-2006
- Muscle Fatigue Induced Hand Tremor Clustering in Dynamic Laparoscopic Manipulation. *Chandra, S.*, +, *TSMC Dec. 2020 5420-5431*
- Reducing the Conservatism of Stabilization for Discrete-Time Takagi– Sugeno Fuzzy Systems via a New Extended Representation Approach. *Xie*, *X.*, +, *TSMC Nov. 2020 4387-4393*
- Robust Tube-Based Model Predictive Control for Lane Change Maneuver of Tractor-Trailer Vehicles Based on a Polynomial Trajectory. Yue, M., +, TSMC Dec. 2020 5180-5188
- Stability and Robust Stability of Stochastic Reaction–Diffusion Neural Networks With Infinite Discrete and Distributed Delays. *Sheng, Y.*, +, *TSMC May 2020 1721-1732*

## Pose estimation

A Subspace Learning Approach to Multishot Person Reidentification. Zheng, A., +, TSMC Jan. 2020 149-158

Position control

- A Segmented Geometry Method for Kinematics and Configuration Planning of Spatial Hyper-Redundant Manipulators. *Mu*, *Z*., +, *TSMC May 2020* 1746-1756
- Adaptive Backstepping Hybrid Fuzzy Sliding Mode Control for Uncertain Fractional-Order Nonlinear Systems Based on Finite-Time Scheme. *Song*, *S.*, +, *TSMC April 2020 1559-1569*
- Adaptive Fault-Tolerant H-Infinity Output Feedback Control for Lead–Wing Close Formation Flight. *Liu*, C., +, *TSMC Aug*. 2020 2804-2814
- Adaptive Robust Nonlinear Control Design for Course Tracking of Ships Subject to External Disturbances and Input Saturation. *Du*, *J.*, +, *TSMC Jan. 2020 193-202*
- Control Strategy Based on Model Reduction and Online Intelligent Calculation for Planar *n*-Link Underactuated Manipulators. *Wang, Y.*, +, *TSMC March* 2020 1046-1054
- Design and Analysis of a Novel Finite-Time Convergent and Noise-Tolerant Recurrent Neural Network for Time-Variant Matrix Inversion. *Li, W., TSMC Nov. 2020 4362-4376*
- Event-Based Tracking Control of Mobile Robot With Denial-of-Service Attacks. Tang, Y., +, TSMC Sept. 2020 3300-3310
- Haptic Tele-Driving of Wheeled Mobile Robots Under Nonideal Wheel Rolling, Kinematic Control and Communication Time Delay. *Li, W.*, +, *TSMC Jan. 2020 336-347*
- Image Dynamics-Based Visual Servoing for Quadrotors Tracking a Target With a Nonlinear Trajectory Observer. Cao, Z., +, TSMC Jan. 2020 376-384
- Motion Tracking Control Design for a Class of Nonholonomic Mobile Robot Systems. Fu, J., +, TSMC June 2020 2150-2156
- Target Following and Close Monitoring Using an Unmanned Surface Vehicle. *Kim, J., TSMC Nov. 2020 4233-4242*

#### Power aware computing

Energy-Efficient Scheduling of Real-Time Tasks in Reconfigurable Homogeneous Multicore Platforms. *Gammoudi*, A., +, TSMC Dec. 2020 5092-5105

#### **Power consumption**

Optimal Dynamic Pricing for Trading-Off User Utility and Operator Profit in Smart Grid. *Ferdous, J.*, +, *TSMC Feb. 2020 455-467* 

Power distribution control

Distributed Voltage Regulation for Cyber-Physical Microgrids With Coupling Delays and Slow Switching Topologies. *Lai*, *J.*, +, *TSMC Jan. 2020 100-110* 

#### Power engineering computing

- A Decision Support System for Wind Power Production. *Donida Labati, R.*, +, *TSMC Jan. 2020 290-304*
- Optimal Dynamic Pricing for Trading-Off User Utility and Operator Profit in Smart Grid. *Ferdous, J.*, +, *TSMC Feb. 2020 455-467*
- Secure and Efficient Vehicle-to-Grid Energy Trading in Cyber Physical Systems: Integration of Blockchain and Edge Computing. *Zhou, Z.*, +, *TSMC Jan. 2020 43-57*
- Simultaneous Input and State Estimation for Integrated Motor-Transmission Systems in a Controller Area Network Environment via an Adaptive Unscented Kalman Filter. *Jiang, K.*, +, *TSMC April 2020 1570-1579*

## Power generation control

- Co-Design of Distributed Model-Based Control and Event-Triggering Scheme for Load Frequency Regulation in Smart Grids. *Liu, S.*, +, *TSMC Sept. 2020 3311-3319*
- Distributed Voltage Regulation for Cyber-Physical Microgrids With Coupling Delays and Slow Switching Topologies. *Lai*, *J.*, +, *TSMC Jan. 2020 100-110*
- Disturbance Rejection of Nonlinear Boiler–Turbine Unit Using High-Order Sliding Mode Observer. Su, Z., +, TSMC Dec. 2020 5432-5443
- Optimal Dynamic Pricing for Trading-Off User Utility and Operator Profit in Smart Grid. *Ferdous, J.*, +, *TSMC Feb. 2020 455-467*

#### Power generation dispatch

Analysis of Consensus-Based Economic Dispatch Algorithm Under Time Delays. Zhao, C., +, TSMC Aug. 2020 2978-2988

## Power generation economics

A Decision Support System for Wind Power Production. Donida Labati, R., +, TSMC Jan. 2020 290-304

- An Evaluation and Optimization Methodology for Efficient Power Plant Programs. Han, W., +, TSMC Feb. 2020 707-716
- Analysis of Consensus-Based Economic Dispatch Algorithm Under Time Delays. *Zhao, C.*, +, *TSMC Aug. 2020 2978-2988*
- Optimal Dynamic Pricing for Trading-Off User Utility and Operator Profit in Smart Grid. *Ferdous, J.*, +, *TSMC Feb. 2020 455-467*

#### Power generation planning

A Decision Support System for Wind Power Production. *Donida Labati, R.,* +, *TSMC Jan. 2020 290-304* 

#### Power generation scheduling

Automated Demand Response Framework in ELNs: Decentralized Scheduling and Smart Contract. Yang, X., +, TSMC Jan. 2020 58-72

#### Power grids

An Evaluation and Optimization Methodology for Efficient Power Plant Programs. Han, W., +, TSMC Feb. 2020 707-716

## Power markets

- A Decision Support System for Wind Power Production. *Donida Labati, R.,* +, *TSMC Jan. 2020 290-304*
- Secure and Efficient Vehicle-to-Grid Energy Trading in Cyber Physical Systems: Integration of Blockchain and Edge Computing. *Zhou, Z.*, +, *TSMC Jan. 2020 43-57*

#### Power plants

An Evaluation and Optimization Methodology for Efficient Power Plant Programs. *Han, W.*, +, *TSMC Feb. 2020 707-716* 

## Power system control

Prescribed Performance Controller Design for DC Converter System With Constant Power Loads in DC Microgrid. *Xu*, *X*., +, *TSMC Nov. 2020 4339-4348* 

## Power system economics

Fleet Sizing for Electric Car Sharing Systems in Discrete Event System Frameworks. *Fanti*, *M.P.*, +, *TSMC March 2020 1161-1177* 

#### Power system faults

Detection of Power Line Insulator Defects Using Aerial Images Analyzed With Convolutional Neural Networks. *Tao, X.*, +, *TSMC April 2020 1486-1498* 

#### Power system interconnection

Co-Design of Distributed Model-Based Control and Event-Triggering Scheme for Load Frequency Regulation in Smart Grids. *Liu, S.*, +, *TSMC Sept. 2020 3311-3319* 

#### Power system stability

- Prescribed Performance Controller Design for DC Converter System With Constant Power Loads in DC Microgrid. *Xu*, *X*., +, *TSMC Nov. 2020 4339-4348*
- Quantized H<sub>∞</sub> Estimator Over Communication Networks for Distributed Generation Units. *Mahmoud*, M.S., +, TSMC March 2020 1134-1146

## Power transmission (mechanical)

Simultaneous Input and State Estimation for Integrated Motor-Transmission Systems in a Controller Area Network Environment via an Adaptive Unscented Kalman Filter. *Jiang, K.*, +, *TSMC April 2020 1570-1579* 

#### Predictive control

- A Cooperative Distributed Model Predictive Control Approach to Supply Chain Management. Fu, D., +, TSMC Dec. 2020 4894-4904
- Delta Operator-Based Model Predictive Control With Fault Compensation for Steer-by-Wire Systems. *Huang, C.*, +, *TSMC June 2020 2257-2272*
- Event-Triggered Adaptive Critic Control Design for Discrete-Time Constrained Nonlinear Systems. *Ha*, *M.*, +, *TSMC Sept. 2020 3158-3168*
- Formation Control of Multiple Mobile Robots Incorporating an Extended State Observer and Distributed Model Predictive Approach. *Liu, A.*, +, *TSMC Nov. 2020 4587-4597*
- Improved Constrained Model Predictive Tracking Control for Networked Coke Furnace Systems Over Uncertainty and Communication Loss. *Jin*, *Q.*, +, *TSMC May 2020 1877-1884*
- Improved Control for Industrial Systems Over Model Uncertainty: A Receding Horizon Expanded State Space Control Approach. *Zhang, R., TSMC April 2020 1343-1349*
- Improved Minmax Control for Industrial Networked Systems Over Imperfect Communication. Jin, Q., +, TSMC April 2020 1310-1317
- N-Step MPC for Systems With Persistent Bounded Disturbances Under SCP. Song, Y., +, TSMC Nov. 2020 4762-4772
- Nonlinear Multiobjective MPC-Based Optimal Operation of a High Consistency Refining System in Papermaking. Li, M., +, TSMC March 2020 1208-1215
- Predictive Control of Networked Nonlinear Multiagent Systems With Communication Constraints. *Liu, G., TSMC Nov. 2020 4447-4457*
- Robust Hybrid Nonlinear Control Systems for the Dynamics of a Quadcopter Drone. Santoso, F., +, TSMC Aug. 2020 3059-3071
- Robust Tube-Based Model Predictive Control for Lane Change Maneuver of Tractor-Trailer Vehicles Based on a Polynomial Trajectory. Yue, M., +, TSMC Dec. 2020 5180-5188

#### Pricing

- Automated Demand Response Framework in ELNs: Decentralized Scheduling and Smart Contract. Yang, X., +, TSMC Jan. 2020 58-72
- Consumer-to-Consumer Digital-Product-Exchange in the Sharing Economy System With Risk Considerations: Will Digital-Product-Developers Suffer?. *Choi*, *T*., +, *TSMC Dec. 2020 5049-5057*
- Dynamic Pricing-Based Resilient Strategy Design for Cloud Control System Under Jamming Attack. Yuan, H., +, TSMC Jan. 2020 111-122
- Environmental Taxes in Newsvendor Supply Chains: A Mean-Downside-Risk Analysis. Chan, H., +, TSMC Dec. 2020 4856-4869
- Information Sharing in a Supply Chain With a Coopetitive Contract Manufacturer. Wang, J., +, TSMC May 2020 1777-1793
- Online Forecasting of Synchronous Time Series Based on Evolving Linear Models. Jahandari, S., +, TSMC May 2020 1865-1876
- Optimal CSR and Pricing Decisions With Risk-Averse Providers in a Competitive Shipping System. Zheng, W., +, TSMC Dec. 2020 4959-4973

Optimal Dynamic Pricing for Trading-Off User Utility and Operator Profit in Smart Grid. Ferdous, J., +, TSMC Feb. 2020 455-467

- Optimal Pricing Decisions of Competing Air-Cargo-Carrier Systems— Impacts of Risk Aversion, Demand, and Cost Uncertainties. *Wen, X.*, +, *TSMC Dec. 2020 4933-4947*
- Pricing and Return Strategy: Whether to Adopt a Cross-Channel Return Option?. Yan, S., +, TSMC Dec. 2020 5058-5073
- Reverse Supply Chain Systems Coordination Across Multiple Links With Duopolistic Third Party Collectors. *Hosseini-Motlagh, S.*, +, *TSMC Dec.* 2020 4882-4893
- Target or Not? Endogenous Advertising Strategy Under Competition. Zhang, J., +, TSMC Nov. 2020 4472-4481

Value of Bargaining Contract in a Supply Chain System With Sustainability Investment: An Incentive Analysis. *Shi*, X., +, *TSMC April 2020 1622-1634* 

#### Principal component analysis

Research Progress on Intelligent System's Learning, Optimization, and Control—Part II: Online Sparse Kernel Adaptive Algorithm. *Tan, F.*, +, *TSMC Dec.* 2020 5369-5385

#### Probability

- A Probabilistic Linguistic Group Decision-Making Method From a Reliability Perspective Based on Evidential Reasoning. *Ma*, *Z*., +, *TSMC July 2020* 2421-2435
- Adaptive Fuzzy Tracking Control of Nonlinear Switched Stochastic Systems With Prescribed Performance and Unknown Control Directions. *Liu*, Y, +, *TSMC Feb. 2020 590-599*
- An Incremental Probability Model for Dynamic Systems. Kohn, W., +, TSMC June 2020 2083-2092
- Context-Aware Decision Support for Anti-Submarine Warfare Mission Planning Within a Dynamic Environment. *Mishra, M.*, +, *TSMC Jan. 2020* 318-335
- Context-Aware Dynamic Asset Allocation for Maritime Interdiction Operations. Sidoti, D., +, TSMC March 2020 1055-1073
- Control Change Cause Analysis-Based Bayesian Network Modeling for System Risk Assessment. Yang, Z., +, TSMC Aug. 2020 2958-2968
- Critique of Recent Uncertainty Measures Developed Under the Evidence Theory and Belief Intervals. *Abellan, J.*, +, *TSMC March 2020 1186-1192*
- Data-Driven Fuzzy Modeling Using Restricted Boltzmann Machines and Probability Theory. *de la Rosa, E., +, TSMC July 2020 2316-2326*
- Diagnosis of Structural and Temporal Faults for k-Bounded Non-Markovian Stochastic Petri Nets. Lefebvre, D., +, TSMC Sept. 2020 3369-3381
- Dynamic Output Feedback Asynchronous Control of Networked Markovian Jump Systems. *Liu*, X., +, *TSMC July 2020 2705-2715*
- Event-Based Security Control for Stochastic Networked Systems Subject to Attacks. Yan, H., +, TSMC Nov. 2020 4643-4654
- Event-Triggered H<sub>co</sub> State Estimation of 2-DOF Quarter-Car Suspension Systems With Nonhomogeneous Markov Switching. Yan, H., +, TSMC Sept. 2020 3320-3329
- Inferring Implicit Rules by Learning Explicit and Hidden Item Dependency. Wang, S., +, TSMC March 2020 935-946
- Maximum *a Posteriori* Estimation for Information Source Detection. *Chang*, *B.*, +, *TSMC June 2020 2242-2256*
- Modeling and Analysis of Patient Transitions in Community Hospitals: A Systems Approach. Lee, H.K., +, TSMC Feb. 2020 686-699
- Modeling and Analyzing Linear Wireless Sensor Networks With Backbone Support. Mo, Y., +, TSMC Oct. 2020 3912-3924
- Multiple-Solution Optimization Strategy for Multirobot Task Allocation. Huang, L., +, TSMC Nov. 2020 4283-4294
- Neural Network-Based Adaptive Control for Pure-Feedback Stochastic Nonlinear Systems With Time-Varying Delays and Dead-Zone Input. *Li*, *Z.*, +, *TSMC Dec. 2020 5317-5329*
- Nonfragile and Nonsynchronous Synthesis of Reachable Set for Bernoulli Switched Systems. Che, W., +, TSMC Feb. 2020 726-731
- On Theoretical Principle and Practical Applicability of Ranked Nodes Method for Constructing Conditional Probability Tables of Bayesian Networks. *Laitila*, P., +, *TSMC May 2020 1943-1955*
- Optimal Estimation for Discrete-Time Linear System with Communication Constraints and Measurement Quantization. *Ren, H.*, +, *TSMC May 2020* 1932-1942

Performability Evaluation of Water Distribution Systems During Maintenance Procedures. Carnevali, L., +, TSMC May 2020 1704-1720

Performance Analysis of the Raft Consensus Algorithm for Private Blockchains. *Huang, D., +, TSMC Jan. 2020 172-181* 

- Quantized Control for Networked Switched Systems With a More General Switching Rule. Li, J., +, TSMC May 2020 1909-1917
- Scalable Mining of Contextual Outliers Using Relevant Subspace. Zhang, J., +, TSMC March 2020 988-1002
- Secure and Efficient Vehicle-to-Grid Energy Trading in Cyber Physical Systems: Integration of Blockchain and Edge Computing. *Zhou, Z.*, +, *TSMC Jan. 2020 43-57*
- Sliding-Mode Control for Stabilizing High-Order Stochastic Systems: Application to One-Degree-of-Freedom Aerial Device. *Vargas, A.N.*, +, *TSMC Nov. 2020 4318-4325*

#### **Processor scheduling**

Energy-Efficient Scheduling of Real-Time Tasks in Reconfigurable Homogeneous Multicore Platforms. Gammoudi, A., +, TSMC Dec. 2020 5092-5105

#### Procurement

Value of Bargaining Contract in a Supply Chain System With Sustainability Investment: An Incentive Analysis. *Shi*, *X*., +, *TSMC April 2020 1622-1634* 

## Product customization

Coordination and Enhancement Schemes for Quick Response Mass Customization Supply Chains With Consumer Returns and Salvage Value Considerations. *Guo*, *S.*, +, *TSMC Feb. 2020 673-685* 

#### Product design

Coordination and Enhancement Schemes for Quick Response Mass Customization Supply Chains With Consumer Returns and Salvage Value Considerations. *Guo*, S., +, *TSMC Feb. 2020 673-685* 

## **Product development**

Consumer-to-Consumer Digital-Product-Exchange in the Sharing Economy System With Risk Considerations: Will Digital-Product-Developers Suffer?. *Choi*, *T*, +, *TSMC Dec. 2020 5049-5057* 

#### **Product quality**

A Study of Product Quality and Marketing Efforts in Closed-Loop Supply Chains With Remanufacturing. *Chen, C.,* +, *TSMC Dec. 2020 4870-4881* Stream-of-Variation (SOV) Theory Applied in Geometric Error Modeling

for Six-Axis Motion Platform. Tang, H., +, TSMC March 2020 762-770

## Production control

- Joint Energy, Maintenance, and Throughput Modeling for Sustainable Manufacturing Systems. *Sun, Z.*, +, *TSMC June 2020 2101-2112*
- Supervisory Control of Deadlock-Prone Production Systems With Routing Flexibility and Unreliable Resources. Yue, H., +, TSMC Oct. 2020 3528-3540

### Production engineering computing

- A BDI Modeling Approach for Decision Support in Supply Chain Quality Inspection. Yan, J., +, TSMC March 2020 884-898
- A Novel Semi-Supervised Sparse Bayesian Regression Based on Variational Inference for Industrial Datasets With Incomplete Outputs. *Zhao, J.*, +, *TSMC Nov. 2020 4773-4786*
- Color Filter Polishing Optimization Using ANFIS With Sliding-Level Particle Swarm Optimizer. *Tsai*, J., +, *TSMC March 2020 1193-1207*
- Diagnosis, Diagnosticability Analysis, and Test Point Design for Multiple Faults Based on Multisignal Modeling and Blind Source Separation. *Lu*, *N.*, +, *TSMC Jan. 2020 137-148*
- Discrete-Event-Based Deterministic Execution Semantics With Timestamps for Industrial Cyber-Physical Systems. *Dai, W.*, +, *TSMC March 2020 851-862*
- ManuChain: Combining Permissioned Blockchain With a Holistic Optimization Model as Bi-Level Intelligence for Smart Manufacturing. *Leng, J.*, +, *TSMC Jan. 2020 182-192*
- Scalable Hypernetwork-Based Manufacturing Services Supply Demand Matching Toward Industrial Internet Platforms. *Cheng, Y.*, +, *TSMC Dec.* 2020 5000-5014
- Supervisory Control of Deadlock-Prone Production Systems With Routing Flexibility and Unreliable Resources. *Yue, H.*, +, *TSMC Oct. 2020 3528-3540*

#### **Production facilities**

Scalable Hypernetwork-Based Manufacturing Services Supply Demand Matching Toward Industrial Internet Platforms. *Cheng, Y.*, +, *TSMC Dec.* 2020 5000-5014

#### Productivity

Robust Aircraft Maintenance Routing Problem Using a Turn-Around Time Reduction Approach. *Eltoukhy, A.E.E.*, +, *TSMC Dec. 2020 4919-4932* 

## Profitability

- Coordination and Enhancement Schemes for Quick Response Mass Customization Supply Chains With Consumer Returns and Salvage Value Considerations. *Guo, S.*, +, *TSMC Feb. 2020 673-685*
- Fleet Sizing for Electric Car Sharing Systems in Discrete Event System Frameworks. *Fanti, M.P.*, +, *TSMC March 2020 1161-1177*
- Optimal Dynamic Pricing for Trading-Off User Utility and Operator Profit in Smart Grid. *Ferdous, J.*, +, *TSMC Feb. 2020 455-467*

Pricing and Return Strategy: Whether to Adopt a Cross-Channel Return Option?. Yan, S., +, TSMC Dec. 2020 5058-5073

#### Program debugging

Adaptive Testing Based on Moment Estimation. Xiao, P., +, TSMC March 2020 911-922

#### Program testing

Adaptive Testing Based on Moment Estimation. Xiao, P., +, TSMC March 2020 911-922

### **Programmable controllers**

Discrete-Event-Based Deterministic Execution Semantics With Timestamps for Industrial Cyber-Physical Systems. *Dai, W.*, +, *TSMC March 2020 851*-862

#### Project management

## Prosthetics

Robust Ground Reaction Force Estimation and Control of Lower-Limb Prostheses: Theory and Simulation. *Azimi, V.*, +, *TSMC Aug. 2020 3024-3035* **Protocols** 

Performance Optimization of Reconfigurable Real-Time Wireless Sensor Networks. *Gasmi, M.,* +, *TSMC July 2020 2623-2637* 

#### Public domain software

Accelerated Two-Stage Particle Swarm Optimization for Clustering Not-Well-Separated Data. Xu, X., +, TSMC Nov. 2020 4212-4223

## Public key cryptography

An Anonymous Off-Blockchain Micropayments Scheme for Cryptocurrencies in the Real World. *Zhang, D.*, +, *TSMC Jan. 2020 32-42* 

#### Pulse width modulation

Toward a Maneuverable Miniature Robotic Fish Equipped With a Novel Magnetic Actuator System. *Chen, X.*, +, *TSMC July 2020 2327-2337* 

## Purchasing

Pricing and Return Strategy: Whether to Adopt a Cross-Channel Return Option?. Yan, S., +, TSMC Dec. 2020 5058-5073

# Q

## Quadratic programming

- A New Repetitive Motion Planning Scheme With Noise Suppression Capability for Redundant Robot Manipulators. *Li*, *Z*., +, *TSMC Dec. 2020 5244-5254*
- Event-Based Security Control for Stochastic Networked Systems Subject to Attacks. Yan, H., +, TSMC Nov. 2020 4643-4654

Nonlinear Multiobjective MPC-Based Optimal Operation of a High Consistency Refining System in Papermaking. Li, M., +, TSMC March 2020 1208-1215

Robustness Analysis of a Power-Type Varying-Parameter Recurrent Neural Network for Solving Time-Varying QM and QP Problems and Applications. *Zhang*, Z., +, *TSMC Dec. 2020 5106-5118* 

## Quality control

A BDI Modeling Approach for Decision Support in Supply Chain Quality Inspection. *Yan, J.*, +, *TSMC March 2020 884-898* 

## Quality management

A BDI Modeling Approach for Decision Support in Supply Chain Quality Inspection. *Yan, J.*, +, *TSMC March 2020 884-898* 

Toward an Improved Monitoring of Engineering Projects. Xue, R., +, TSMC Oct. 2020 3541-3553

Data-Driven Analysis for RFID-Enabled Smart Factory: A Case Study. *Feng, J.*, +, *TSMC Jan. 2020 81-88* 

#### Quality of service

QoS-Aware Service Composition in Cloud Manufacturing: A Gale–Shapley Algorithm-Based Approach. *Li, F.,* +, *TSMC July 2020 2386-2397* 

## Quantization (signal)

- Adaptive Quantized Estimation Fusion Using Strong Tracking Filtering and Variational Bayesian. Ge, Q., +, TSMC March 2020 899-910
- Observer-Based Adaptive Finite-Time Quantized Tracking Control of Nonstrict-Feedback Nonlinear Systems With Asymmetric Actuator Saturation. *Yu*, *Z.*, +, *TSMC Nov. 2020 4545-4556*
- Quantized  $H_{\infty}$  Estimator Over Communication Networks for Distributed Generation Units. *Mahmoud*, M.S., +, TSMC March 2020 1134-1146
- Quantized Control for Networked Switched Systems With a More General Switching Rule. Li, J., +, TSMC May 2020 1909-1917
- Quantized Data Driven Iterative Learning Control for a Class of Nonlinear Systems With Sensor Saturation. *Bu, X.*, +, *TSMC Dec. 2020 5119-5129*
- Self-Triggered and Event-Triggered Control for Linear Systems With Quantization. Zhou, T., +, TSMC Sept. 2020 3136-3144

#### Query processing

Predictive Intelligence in Analytics Aggregation of Partial Ordered Subsets. Kolomvatsos, K., +, TSMC April 2020 1417-1428

## Queueing theory

Fleet Sizing for Electric Car Sharing Systems in Discrete Event System Frameworks. Fanti, M.P., +, TSMC March 2020 1161-1177

Quantitative Modeling and Analytical Calculation of Anelasticity for a Cyber-Physical System. *Gong, H., +, TSMC Nov. 2020 4746-4761* 

# R

## **Radar imaging**

Feasibility Study and Conceptual Design of Missile-Borne Synthetic Aperture Radar. Saeedi, J., TSMC March 2020 1122-1133

Radar tracking

Target State and Markovian Jump Ionospheric Height Bias Estimation for OTHR Tracking Systems. *Geng, H.*, +, *TSMC July 2020 2599-2611* 

## Radial basis function networks

Consensus Tracking Control for Distributed Nonlinear Multiagent Systems via Adaptive Neural Backstepping Approach. *Shang, Y.*, +, *TSMC July 2020 2436-2444* 

- Decentralized Adaptive NN Output-Feedback Fault Compensation Control of Nonlinear Switched Large-Scale Systems With Actuator Dead-Zones. *Ma*, *Z*., +, *TSMC Sept. 2020 3435-3447*
- Multistability of Recurrent Neural Networks With Piecewise-Linear Radial Basis Functions and State-Dependent Switching Parameters. *Guo, Z.*, +, *TSMC Nov. 2020 4458-4471*
- Optimal Setting and Control for Iron Removal Process Based on Adaptive Neural Network Soft-Sensor. *Xie, S.*, +, *TSMC July 2020 2408-2420*

Reinforcement Learning Neural Network-Based Adaptive Control for State and Input Time-Delayed Wheeled Mobile Robots. *Li*, *S.*, +, *TSMC Nov.* 2020 4171-4182

## **Radio transmitters**

Dynamic Pricing-Based Resilient Strategy Design for Cloud Control System Under Jamming Attack. Yuan, H., +, TSMC Jan. 2020 111-122

# **Radiofrequency identification**

Data-Driven Analysis for RFID-Enabled Smart Factory: A Case Study. Feng, J., +, TSMC Jan. 2020 81-88

Hybrid Indoor Positioning System for First Responders. De Cillis, F., +, TSMC Feb. 2020 468-479

# Radiofrequency interference

A Robust Game-Based Algorithm for Downlink Joint Resource Allocation in Hierarchical OFDMA Femtocell Network System. Yu, J., +, TSMC July 2020 2445-2455

## Radionavigation

- Automatic Visual Fingerprinting for Indoor Image-Based Localization Applications. Vedadi, F., +, TSMC Jan. 2020 305-317
- Hybrid Indoor Positioning System for First Responders. De Cillis, F., +, TSMC Feb. 2020 468-479

## **Radiowave propagation**

The Impacts of Node Orientation on Radio Propagation Models for Airborne-Deployed Sensor Networks in Large-Scale Tree Vegetation Terrains. *Olasupo, T.O., +, TSMC Jan. 2020 256-269* 

## Railways

- Disturbance-Observer-Based Fault Tolerant Control of High-Speed Trains: A Markovian Jump System Model Approach. *Yao, X.*, +, *TSMC April 2020* 1476-1485
- Energy-Efficient Subway Train Scheduling Design With Time-Dependent Demand Based on an Approximate Dynamic Programming Approach. *Liu*, *R.*, +, *TSMC July 2020 2475-2490*

Online Rail Surface Inspection Utilizing Spatial Consistency and Continuity. Gan, J., +, TSMC July 2020 2741-2751

# **Random forests**

Toward Hand-Dominated Activity Recognition Systems With Wristband-Interaction Behavior Analysis. *Shen, C., +, TSMC July 2020 2501-2511* 

#### **Random noise**

A Modeling Method of Electromagnetic Micromirror in Random Noisy Environment. Cao, Q., +, TSMC July 2020 2578-2587

## Random processes

- Deep Reinforced Learning Tree for Spatiotemporal Monitoring With Mobile Robotic Wireless Sensor Networks. *Chen, J.*, +, *TSMC Nov. 2020 4197-*4211
- On Theoretical Principle and Practical Applicability of Ranked Nodes Method for Constructing Conditional Probability Tables of Bayesian Networks. *Laitila, P., +, TSMC May 2020 1943-1955*

# **Reachability analysis**

- A Dynamic Data Slice Approach to the Vulnerability Analysis of E-Commerce Systems. Wang, M., +, TSMC Oct. 2020 3598-3612
- Analysis of Unbounded Petri Net With Lean Reachability Trees. Li, J., +, TSMC June 2020 2007-2016
- Control Design for Bounded Partially Controlled TPNs Using Timed Extended Reachability Graphs and MDP. *Lefebvre, D.*, +, *TSMC June 2020 2273-2283*
- Observer-Based Adaptive Sliding Mode Control for T–S Fuzzy Singular Systems. Sun, X., +, TSMC Nov. 2020 4438-4446
- On Hierarchical Construction of the State Space of an Automated Manufacturing System Modeled With Petri Nets. *Karoui, O.*, +, *TSMC Oct. 2020* 3613-3627
- Refinement-Based Hierarchical Modeling and Correctness Verification of Cross-Organization Collaborative Emergency Response Processes. *Duan*, H., +, *TSMC Aug. 2020 2845-2859*

# **Reaction-diffusion systems**

Stability and Robust Stability of Stochastic Reaction–Diffusion Neural Networks With Infinite Discrete and Distributed Delays. *Sheng, Y.*, +, *TSMC May 2020 1721-1732* 

#### **Real-time systems**

- Editorial Special Issue on Adaptive Dynamic Programming and Reinforcement Learning. *Liu*, *D*., +, *TSMC Nov. 2020 3944-3947*
- EventiC: A Real-Time Unbiased Event-Based Learning Technique for Complex Systems. Danishvar, M., +, TSMC May 2020 1649-1662
- Guest Editorial Special Issue on Fault Diagnosis and Adaptive Fault-Tolerant Control for Automatic Control Systems. *Kaynak, O.*, +, *TSMC Sept.* 2020 3330-3332

# Recommender systems

- Dual Implicit Mining-Based Latent Friend Recommendation. Cui, L., +, TSMC May 2020 1663-1678
- Integrating Community Context Information Into a Reliably Weighted Collaborative Filtering System Using Soft Ratings. *Nguyen, V.*, +, *TSMC April* 2020 1318-1330
- Social Recommendation With Evolutionary Opinion Dynamics. *Xiong, F.*, +, *TSMC Oct. 2020 3804-3816*

## **Recurrent neural networks**

A New Repetitive Motion Planning Scheme With Noise Suppression Capability for Redundant Robot Manipulators. *Li*, *Z*., +, *TSMC Dec. 2020 5244-5254* 

- Co-Design of Finite-Time Convergence and Noise Suppression: A Unified Neural Model for Time Varying Linear Equations With Robotic Applications. *Xiao, L., +, TSMC Dec. 2020 5233-5243*
- Compensating Delays and Noises in Motion Control of Autonomous Electric Vehicles by Using Deep Learning and Unscented Kalman Predictor. *Li*, *Y*, +, *TSMC Nov. 2020 4326-4338*
- Design and Analysis of a Novel Finite-Time Convergent and Noise-Tolerant Recurrent Neural Network for Time-Variant Matrix Inversion. *Li, W., TSMC Nov. 2020 4362-4376*
- Multiple Lagrange Stability Under Perturbation for Recurrent Neural Networks With Time-Varying Delays. *Zhang, F.*, +, *TSMC June 2020 2029-*2041
- Multistability of Recurrent Neural Networks With Piecewise-Linear Radial Basis Functions and State-Dependent Switching Parameters. *Guo*, *Z*., +, *TSMC Nov. 2020 4458-4471*
- Real-Time Recurrent Tactile Recognition: Momentum Batch-Sequential Echo State Networks. Cao, L., +, TSMC April 2020 1350-1361
- Robustness Analysis of a Power-Type Varying-Parameter Recurrent Neural Network for Solving Time-Varying QM and QP Problems and Applications. Zhang, Z., +, TSMC Dec. 2020 5106-5118

#### **Recursive filters**

Event-Triggered Distributed Fusion Estimation of Networked Multisensor Systems With Limited Information. Yan, H., +, TSMC Dec. 2020 5330-5337

#### Recycling

- A Study of Product Quality and Marketing Efforts in Closed-Loop Supply Chains With Remanufacturing. *Chen, C., +, TSMC Dec. 2020 4870-4881*
- An MCDM-Based Multiobjective General Variable Neighborhood Search Approach for Disassembly Line Balancing Problem. *Ren, Y.*, +, *TSMC Oct.* 2020 3770-3783
- Reverse Supply Chain Systems Coordination Across Multiple Links With Duopolistic Third Party Collectors. *Hosseini-Motlagh, S.*, +, *TSMC Dec.* 2020 4882-4893

## **Reduced order systems**

- Consensus of Discrete-Time Multiagent Systems With State, Input, and Communication Delays. *Liu*, *Q*., +, *TSMC Nov. 2020 4425-4437*
- Control Strategy Based on Model Reduction and Online Intelligent Calculation for Planar *n*-Link Underactuated Manipulators. *Wang, Y.*, +, *TSMC March 2020 1046-1054*
- Parameter Optimization of Reduced Fluid Model via Sparse Point Measurements. Zhou, S., +, TSMC Dec. 2020 5201-5210

#### **Redundant manipulators**

- A New Repetitive Motion Planning Scheme With Noise Suppression Capability for Redundant Robot Manipulators. *Li*, *Z*., +, *TSMC Dec. 2020 5244-5254*
- A Segmented Geometry Method for Kinematics and Configuration Planning of Spatial Hyper-Redundant Manipulators. *Mu, Z.*, +, *TSMC May 2020* 1746-1756

## **Regression analysis**

- A Belief Rule-Based Expert System for Fault Diagnosis of Marine Diesel Engines. Xu, X., +, TSMC Feb. 2020 656-672
- A Clustering-Based Nonlinear Ensemble Approach for Exchange Rates Forecasting. Sun, S., +, TSMC June 2020 2284-2292
- A Novel Semi-Supervised Sparse Bayesian Regression Based on Variational Inference for Industrial Datasets With Incomplete Outputs. *Zhao, J.*, +, *TSMC Nov. 2020 4773-4786*
- An Interventionalist-Behavior-Based Data Fusion Framework for Guidewire Tracking in Percutaneous Coronary Intervention. *Zhou, X.*, +, *TSMC Nov.* 2020 4836-4849

Bidirectional Backpropagation. Adigun, O., +, TSMC May 2020 1982-1994 Dynamic Emotion Understanding in Human-Robot Interaction Based on

- Two-Layer Fuzzy SVR-TS Model. Chen, L., +, TSMC Feb. 2020 490-501
- Modeling and Interpretation of Tidal Turbine Vibration Through Weighted Least Squares Regression. *Galloway, G.S.*, +, *TSMC April 2020 1252-1259*
- Multifactorial Genetic Programming for Symbolic Regression Problems. Zhong, J., +, TSMC Nov. 2020 4492-4505

Multiple-Solution Optimization Strategy for Multirobot Task Allocation. Huang, L., +, TSMC Nov. 2020 4283-4294

- On Theoretical Principle and Practical Applicability of Ranked Nodes Method for Constructing Conditional Probability Tables of Bayesian Networks. *Laitila, P., +, TSMC May 2020 1943-1955*
- Online Forecasting of Synchronous Time Series Based on Evolving Linear Models. Jahandari, S., +, TSMC May 2020 1865-1876

## **Reinforcement learning**

Editorial Special Issue on Adaptive Dynamic Programming and Reinforcement Learning. *Liu*, *D.*, +, *TSMC Nov. 2020 3944-3947* 

## Reliability

- Disintegration of Operational Capability of Heterogeneous Combat Networks Under Incomplete Information. Li, J., +, TSMC Dec. 2020 5172-5179
- Guest Editorial Special Issue: Modeling Support to Various Levels of Decision-Making. Olson, D.L., +, TSMC Oct. 2020 3728-3730

## **Remotely operated vehicles**

- A Neural Adaptive Approach for Active Fault-Tolerant Control Design in UAV. *Abbaspour*; A., +, *TSMC Sept. 2020 3401-3411*
- A System-of-Systems Approach to the Strategic Feasibility of Modular Vehicle Fleets. *Bayrak, A.E.*, +, *TSMC July 2020 2716-2728*
- Robust Hybrid Nonlinear Control Systems for the Dynamics of a Quadcopter Drone. Santoso, F., +, TSMC Aug. 2020 3059-3071
- Target Following and Close Monitoring Using an Unmanned Surface Vehicle. *Kim, J., TSMC Nov. 2020 4233-4242*
- Using Stacked Sparse Auto-Encoder and Superpixel CRF for Long-Term Visual Scene Understanding of UGVs. *Qiu, Z.*, +, *TSMC April 2020 1331-1342*

## **Renewable energy sources**

- A Decision Support System for Wind Power Production. *Donida Labati, R.,* +, *TSMC Jan. 2020 290-304*
- **Resource allocation** 
  - A Robust Control Approach to Automated Manufacturing Systems Allowing Multitype and Multiquantity of Resources With Petri Nets. *Wang, X.*, +, *TSMC Oct. 2020 3499-3514*
  - A Robust Control Approach to Automated Manufacturing Systems Combining Absorbing and Distributing Characteristics. *Wang, X.*, +, *TSMC Dec.* 2020 5024-5036
  - A Robust Game-Based Algorithm for Downlink Joint Resource Allocation in Hierarchical OFDMA Femtocell Network System. Yu, J., +, TSMC July 2020 2445-2455
  - A Utility Driven Post Disaster Emergency Resource Allocation System Using DTN. *Basu, S., +, TSMC July 2020 2338-2350*
  - Context-Aware Decision Support for Anti-Submarine Warfare Mission Planning Within a Dynamic Environment. *Mishra, M.*, +, *TSMC Jan. 2020* 318-335
  - Cooperative Optimization of Dual Multiagent System for Optimal Resource Allocation. *Li, K.*, +, *TSMC Nov. 2020 4676-4687*
  - Distributed Optimal Steady-State Regulation for High-Order Multiagent Systems With External Disturbances. *Tang, Y., TSMC Nov. 2020 4828-*4835
  - Dynamic Event-Triggered Distributed Coordination Control and its Applications: A Survey of Trends and Techniques. *Ge, X.*, +, *TSMC Sept. 2020* 3112-3125
  - ManuChain: Combining Permissioned Blockchain With a Holistic Optimization Model as Bi-Level Intelligence for Smart Manufacturing. *Leng, J.*, +, *TSMC Jan. 2020 182-192*
  - Multiple-Solution Optimization Strategy for Multirobot Task Allocation. Huang, L., +, TSMC Nov. 2020 4283-4294
  - On Hierarchical Construction of the State Space of an Automated Manufacturing System Modeled With Petri Nets. *Karoui*, O., +, *TSMC Oct. 2020* 3613-3627
  - Resource Conflict Checking and Resolution Controller Design for Cross-Organization Emergency Response Processes. Zeng, Q., +, TSMC Oct. 2020 3685-3700
  - Scheduling Dual-Objective Stochastic Hybrid Flow Shop With Deteriorating Jobs via Bi-Population Evolutionary Algorithm. *Fu*, *Y*, +, *TSMC Dec.* 2020 5037-5048

- Secure and Efficient Vehicle-to-Grid Energy Trading in Cyber Physical Systems: Integration of Blockchain and Edge Computing. *Zhou, Z.*, +, *TSMC Jan. 2020 43-57*
- Structural Sparsity in Networked Control Systems. *Florez, A.J.*, +, *TSMC Dec. 2020 5152-5161*

Supervisory Control of Deadlock-Prone Production Systems With Routing Flexibility and Unreliable Resources. *Yue, H.*, +, *TSMC Oct. 2020 3528-3540* 

## Retailing

A Study of Product Quality and Marketing Efforts in Closed-Loop Supply Chains With Remanufacturing. Chen, C., +, TSMC Dec. 2020 4870-4881

- Environmental Taxes in Newsvendor Supply Chains: A Mean-Downside-Risk Analysis. *Chan, H., +, TSMC Dec. 2020 4856-4869*
- Information Sharing in a Supply Chain With a Coopetitive Contract Manufacturer. Wang, J., +, TSMC May 2020 1777-1793
- Pricing and Return Strategy: Whether to Adopt a Cross-Channel Return Option?. Yan, S., +, TSMC Dec. 2020 5058-5073
- Stock Management Problem: Adaptive Fixed-Time Convergent Continuous Controller Design. Basin, M.V., +, TSMC Dec. 2020 4974-4983

## **Riccati equations**

- Data-Driven Guaranteed Cost Control Design via Reinforcement Learning for Linear Systems With Parameter Uncertainties. *Wu, H.*, +, *TSMC Nov.* 2020 4151-4159
- Reinforcement Q-Learning Algorithm for  $H_{\infty}$  Tracking Control of Unknown Discrete-Time Linear Systems. *Peng, Y.*, +, *TSMC Nov. 2020 4109-4122*
- Sampled-Data Consensus for Multiagent Systems With Time Delays and Packet Losses. *Xing, M.*, +, *TSMC Jan. 2020 203-210*
- Stability Analysis and Control for Switched System With Bounded Actuators. Wang, Q., +, TSMC Nov. 2020 4506-4512

## **Risk analysis**

- Control Change Cause Analysis-Based Bayesian Network Modeling for System Risk Assessment. Yang, Z., +, TSMC Aug. 2020 2958-2968
- Coordination and Enhancement Schemes for Quick Response Mass Customization Supply Chains With Consumer Returns and Salvage Value Considerations. *Guo*, S., +, *TSMC Feb. 2020 673-685*
- Environmental Taxes in Newsvendor Supply Chains: A Mean-Downside-Risk Analysis. Chan, H., +, TSMC Dec. 2020 4856-4869
- Optimal Pricing Decisions of Competing Air-Cargo-Carrier Systems— Impacts of Risk Aversion, Demand, and Cost Uncertainties. *Wen, X.*, +, *TSMC Dec. 2020 4933-4947*

#### **Risk management**

- A Decision Support Approach to Liquidate a Distressed Debt Network. Liang, L., +, TSMC April 2020 1242-1251
- Control Change Cause Analysis-Based Bayesian Network Modeling for System Risk Assessment. Yang, Z., +, TSMC Aug. 2020 2958-2968
- Environmental Taxes in Newsvendor Supply Chains: A Mean-Downside-Risk Analysis. Chan, H., +, TSMC Dec. 2020 4856-4869
- Optimal CSR and Pricing Decisions With Risk-Averse Providers in a Competitive Shipping System. *Zheng, W.*, +, *TSMC Dec. 2020 4959-4973*
- Optimal Pricing Decisions of Competing Air-Cargo-Carrier Systems— Impacts of Risk Aversion, Demand, and Cost Uncertainties. *Wen, X.*, +, *TSMC Dec. 2020 4933-4947*
- Reweighted Price Relative Tracking System for Automatic Portfolio Optimization. Lai, Z., +, TSMC Nov. 2020 4349-4361

#### RLC circuits

Neural Networks-Based Active Fault-Tolerant Control for a Class of Switched Nonlinear Systems With Its Application to RCL Circuit. *Tang, L.*, +, *TSMC Nov. 2020 4270-4282* 

Stability, l<sub>2</sub>-Gain Analysis, and Parity Space-Based Fault Detection for Discrete-Time Switched Systems Under Dwell-Time Switching. Sun, T., +, TSMC Sept. 2020 3358-3368

## Road safety

- Compensating Delays and Noises in Motion Control of Autonomous Electric Vehicles by Using Deep Learning and Unscented Kalman Predictor. *Li*, *Y*, +, *TSMC Nov. 2020 4326-4338*
- Robust Tube-Based Model Predictive Control for Lane Change Maneuver of Tractor-Trailer Vehicles Based on a Polynomial Trajectory. Yue, M., +, TSMC Dec. 2020 5180-5188

#### Road traffic

- A Switching-Based Adaptive Dynamic Programming Method to Optimal Traffic Signaling. *Liu*, *D.*, +, *TSMC Nov. 2020 4160-4170*
- Dual-Objective Optimization for Lane Reservation With Residual Capacity and Budget Constraints. *Wu, P., +, TSMC June 2020 2187-2197*

**Road traffic control** 

- Perimeter Control of Multiregion Urban Traffic Networks With Time-Varying Delays. Wan, Y., +, TSMC Aug. 2020 2795-2803
- Robust Tube-Based Model Predictive Control for Lane Change Maneuver of Tractor-Trailer Vehicles Based on a Polynomial Trajectory. Yue, M., +, TSMC Dec. 2020 5180-5188
- Unifying Analytical Methods With Numerical Methods for Traffic System Modeling and Control. *Zhang, Y.*, +, *TSMC June 2020 2068-2082*

# **Road vehicles**

- Active Control of Uncertain Seat Suspension System Based on a State and Disturbance Observer. Lathkar, M.S., +, TSMC March 2020 840-850
- An Adaptive Neural Network Controller for Active Suspension Systems With Hydraulic Actuator. *Liu*, *Y*, +, *TSMC Dec. 2020 5351-5360*
- Compensating Delays and Noises in Motion Control of Autonomous Electric Vehicles by Using Deep Learning and Unscented Kalman Predictor. *Li*, *Y*, +, *TSMC Nov. 2020 4326-4338*
- Robust Tube-Based Model Predictive Control for Lane Change Maneuver of Tractor-Trailer Vehicles Based on a Polynomial Trajectory. *Yue, M.*, +, *TSMC Dec. 2020 5180-5188*

### Robot dynamics

A Theoretical Framework for Stability Regions for Standing Balance of Humanoids Based on Their LIPM Treatment. *Kim, J.H.*, +, *TSMC Nov.* 2020 4569-4586

## Robot vision

- A Review on Intelligence Dehazing and Color Restoration for Underwater Images. *Han*, *M.*, +, *TSMC May 2020 1820-1832*
- A UAV Video Dataset for Mosaicking and Change Detection From Low-Altitude Flights. *Avola, D., +, TSMC June 2020 2139-2149*
- Dealing With Large-Scale Spatio-Temporal Patterns in Imitative Interaction Between a Robot and a Human by Using the Predictive Coding Framework. *Hwang, J.*, +, *TSMC May 2020 1918-1931*
- Image Dynamics-Based Visual Servoing for Quadrotors Tracking a Target With a Nonlinear Trajectory Observer. *Cao, Z.*, +, *TSMC Jan. 2020 376-384*

## **Robust control**

- A Hybrid Proportional Impulsive Plus Integral Robust Control Algorithm for H∞ Stabilization. *Chen, H.,* +, *TSMC Dec. 2020 5211-5220*
- A Robust Adaptive Model Reference Impedance Control of a Robotic Manipulator With Actuator Saturation. *Arefinia, E., +, TSMC Feb. 2020* 409-420
- A Robust Control Approach to Automated Manufacturing Systems Allowing Multitype and Multiquantity of Resources With Petri Nets. *Wang, X.*, +, *TSMC Oct. 2020 3499-3514*
- A Robust Control Approach to Automated Manufacturing Systems Combining Absorbing and Distributing Characteristics. *Wang, X.*, +, *TSMC Dec.* 2020 5024-5036
- Adaptive Fault-Tolerant Compensation Control for T–S Fuzzy Systems With Mismatched Parameter Uncertainties. *Yan, J.*, +, *TSMC Sept. 2020 3412-3423*
- Adaptive Fuzzy Fault-Tolerant Tracking Control of Uncertain Nonlinear Time-Varying Delay Systems. Zhai, D., +, TSMC May 2020 1840-1849
- Adaptive Robust Nonlinear Control Design for Course Tracking of Ships Subject to External Disturbances and Input Saturation. *Du*, *J.*, +, *TSMC Jan. 2020 193-202*
- ADP-Based Robust Tracking Control for a Class of Nonlinear Systems With Unmatched Uncertainties. Mu, C., +, TSMC Nov. 2020 4056-4067
- An Approach to Design Robust Tracking Controllers for Nonlinear Uncertain Systems. *Celentano, L., +, TSMC Aug. 2020 3010-3023*
- Barrier Lyapunov Functions-Based Adaptive Fault Tolerant Control for Flexible Hypersonic Flight Vehicles With Full State Constraints. *Yuan, Y.*, +, *TSMC Sept. 2020 3391-3400*

- Co-Design of Finite-Time Convergence and Noise Suppression: A Unified Neural Model for Time Varying Linear Equations With Robotic Applications. *Xiao, L., +, TSMC Dec. 2020 5233-5243*
- Contraction Mapping-Based Robust Convergence of Iterative Learning Control With Uncertain, Locally Lipschitz Nonlinearity. *Meng, D.*, +, *TSMC Feb.* 2020 442-454
- Data-Driven Guaranteed Cost Control Design via Reinforcement Learning for Linear Systems With Parameter Uncertainties. *Wu, H.*, +, *TSMC Nov.* 2020 4151-4159
- Design and Analysis of a Novel Finite-Time Convergent and Noise-Tolerant Recurrent Neural Network for Time-Variant Matrix Inversion. Li, W., TSMC Nov. 2020 4362-4376
- Design of Robust Sliding Mode Control With Adaptive Reaching Law. *Han*, *H.*, +, *TSMC Nov. 2020 4415-4424*
- Deterministic Policy Gradient With Integral Compensator for Robust Quadrotor Control. *Wang, Y.*, +, *TSMC Oct. 2020 3713-3725*
- Dissipative Fuzzy Tracking Control for Nonlinear Networked Systems With Quantization. *Li*, *Z*., +, *TSMC Dec. 2020 5130-5141*
- Distributed Fault Estimation for a Class of Nonlinear Multiagent Systems. Liu, X., +, TSMC Sept. 2020 3382-3390
- Distributed Voltage Regulation for Cyber-Physical Microgrids With Coupling Delays and Slow Switching Topologies. *Lai*, *J.*, +, *TSMC Jan. 2020 100-110*
- Disturbance-Observer-Based Fault Tolerant Control of High-Speed Trains: A Markovian Jump System Model Approach. *Yao, X.*, +, *TSMC April 2020* 1476-1485
- Error State Convergence on Master–Slave Generalized Uncertain Neural Networks Using Robust Nonlinear  $H_{\infty}$  Control Theory. *Chen, H.*, +, *TSMC June 2020 2042-2055*
- Error-Driven Nonlinear Feedback Design for Fuzzy Adaptive Dynamic Surface Control of Nonlinear Systems With Prescribed Tracking Performance. *Dong, H.*, +, *TSMC March 2020 1013-1023*
- Event-Driven Guaranteed Cost Control Design for Nonlinear Systems With Actuator Faults via Reinforcement Learning Algorithm. *Zhang, H.*, +, *TSMC Nov. 2020 4135-4150*
- Event-Triggered Adaptive Output Regulation for a Class of Nonlinear Systems With Unknown Control Direction. *Lei, Y.*, +, *TSMC Sept. 2020 3181-3188*
- Event-Triggered Integral Sliding-Mode Control for Nonlinear Constrained-Input Systems With Disturbances via Adaptive Dynamic Programming. *Yang, D.*, +, *TSMC Nov. 2020 4086-4096*
- Event-Triggered Robust Stabilization of Nonlinear Input-Constrained Systems Using Single Network Adaptive Critic Designs. *Yang, X.*, +, *TSMC Sept. 2020 3145-3157*
- Fixed-Time Sliding Mode Disturbance Observer-Based Nonsmooth Backstepping Control for Hypersonic Vehicles. Sun, J., +, TSMC Nov. 2020 4377-4386
- Fuzzy Adaptive Quantized Fault-Tolerant Control of Strict-Feedback Nonlinear Systems With Mismatched External Disturbances. *Jing, Y.*, +, *TSMC Sept. 2020 3424-3434*
- Guaranteed Cost Control of Uncertain Networked Control Systems With a Hybrid Communication Scheme. *Zhang, J.*, +, *TSMC Sept. 2020 3126-3135*
- Guest Editorial to the Special Issue on Logistics and Supply Chain Systems Engineering. *Choi, T., TSMC Dec. 2020 4852-4855*
- Integrating Vector Field Approach and Input-to-State Stability Curved Path Following for Unmanned Aerial Vehicles. *Zhao, S.*, +, *TSMC Aug. 2020* 2897-2904
- Modified Repetitive Control Design for Nonlinear Systems With Time Delay Based on T–S Fuzzy Model. Sakthivel, R., +, TSMC Feb. 2020 646-655
- Multiple Lagrange Stability Under Perturbation for Recurrent Neural Networks With Time-Varying Delays. *Zhang, F.*, +, *TSMC June 2020 2029-*2041
- Passivity-Based Robust Sampled-Data Control for Markovian Jump Systems. Chen, G., +, TSMC July 2020 2671-2684

- Prescribed Performance Tracking Control of a Class of Uncertain Pure-Feedback Nonlinear Systems With Input Saturation. *Yang, Y.*, +, *TSMC May* 2020 1733-1745
- Resilient Asynchronous H<sub>∞</sub> Control for Discrete-Time Markov Jump Singularly Perturbed Systems Based on Hidden Markov Model. *Li*, *F*., +, *TSMC Aug. 2020 2860-2869*
- Resilient Nonlinear Control for Attacked Cyber-Physical Systems. *Pang, Y.*, +, *TSMC June 2020 2129-2138*
- Robust  $H_{\infty}$  Guaranteed Cost Time-Varying Formation Tracking for High-Order Multiagent Systems With Time-Varying Delays. *Yu, J.*, +, *TSMC April* 2020 1465-1475
- Robust Adaptive Control of an Offshore Ocean Thermal Energy Conversion System. *He, X.*, +, *TSMC Dec. 2020 5285-5295*
- Robust Adaptive Fault-Tolerant Tracking Control for Uncertain Linear Systems With Actuator Failures Based on the Closed-Loop Reference Model. *Xiao, S.*, +, *TSMC Sept. 2020 3448-3455*
- Robust Adaptive Fuzzy Tracking Control for Uncertain MIMO Nonlinear Nonminimum Phase System. Hu, X., +, TSMC June 2020 2017-2028
- Robust Bipartite Consensus and Tracking Control of High-Order Multiagent Systems With Matching Uncertainties and Antagonistic Interactions. *Liu*, *M.*, +, *TSMC July 2020 2541-2550*
- Robust Deadlock Prevention for Automated Manufacturing Systems With Unreliable Resources by Using General Petri Nets. *Feng, Y.*, +, *TSMC Oct.* 2020 3515-3527
- Robust Distributed  $H_{\infty}$  State Estimation for Stochastic Periodic Systems Over Constraint Sensor Networks. *Li, J.*, +, *TSMC Nov. 2020* 4396-4407
- Robust Ground Reaction Force Estimation and Control of Lower-Limb Prostheses: Theory and Simulation. *Azimi, V., +, TSMC Aug. 2020 3024-3035*
- Robust Hybrid Nonlinear Control Systems for the Dynamics of a Quadcopter Drone. Santoso, F., +, TSMC Aug. 2020 3059-3071
- Robust Optimal Control for Disturbed Nonlinear Zero-Sum Differential Games Based on Single NN and Least Squares. *Song, R.*, +, *TSMC Nov.* 2020 4009-4019
- Robust Optimal Control Scheme for Unknown Constrained-Input Nonlinear Systems via a Plug-n-Play Event-Sampled Critic-Only Algorithm. *Zhang*, *H.*, +, *TSMC Sept. 2020 3169-3180*
- Robust Science-Optimal Spacecraft Control for Circular Orbit Missions. Nasir, A., +, TSMC March 2020 923-934
- Robust Tube-Based Model Predictive Control for Lane Change Maneuver of Tractor-Trailer Vehicles Based on a Polynomial Trajectory. Yue, M., +, TSMC Dec. 2020 5180-5188
- Robustness Analysis of a Power-Type Varying-Parameter Recurrent Neural Network for Solving Time-Varying QM and QP Problems and Applications. *Zhang, Z.*, +, *TSMC Dec. 2020 5106-5118*
- Stabilization of Canonical Systems via Adaptive Chattering Free Sliding Modes With No Singularity Problems. Aghababa, M.P., TSMC May 2020 1696-1703
- Stock Management Problem: Adaptive Fixed-Time Convergent Continuous Controller Design. *Basin, M.V.,* +, *TSMC Dec. 2020 4974-4983*
- Supervisory Control of Deadlock-Prone Production Systems With Routing Flexibility and Unreliable Resources. *Yue, H.*, +, *TSMC Oct. 2020 3528-3540*
- TS Fuzzy Model-Based Controller Design for a Class of Nonlinear Systems Including Nonsmooth Functions. *Vafamand, N.*, +, *TSMC Jan. 2020 233-*244

## Rolling mills

Safety

Diagnosis, Diagnosticability Analysis, and Test Point Design for Multiple Faults Based on Multisignal Modeling and Blind Source Separation. *Lu*, *N.*, +, *TSMC Jan. 2020 137-148* 

S

Guest Editorial Special Issue on Fault Diagnosis and Adaptive Fault-Tolerant Control for Automatic Control Systems. *Kaynak, O.*, +, *TSMC Sept.* 2020 3330-3332

#### Sampled data systems

- An Industrial-Based Framework for Distributed Control of Heterogeneous Network Systems. *Wu, Y.*, +, *TSMC June 2020 2120-2128*
- Asynchronous Quasi-Consensus of Heterogeneous Multiagent Systems With Nonuniform Input Delays. Wang, Z., +, TSMC Aug. 2020 2815-2827
- Consensus Seeking in Multiagent Systems With Markovian Switching Topology Under Aperiodic Sampled Data. *Wang, X.*, +, *TSMC Dec. 2020* 5189-5200
- Design of Resilient Reliable Dissipativity Control for Systems With Actuator Faults and Probabilistic Time-Delay Signals via Sampled-Data Approach. *Manivannan, R.*, +, *TSMC Nov. 2020 4243-4255*
- Estimator-Based H<sub>∞</sub> Sampled-Data Fuzzy Control for Nonlinear Parabolic PDE Systems. Wang, Z., +, TSMC July 2020 2491-2500
- Filtering Design for Multirate Sampled-Data Systems. Li, Z., +, TSMC Nov. 2020 4224-4232
- Passivity-Based Robust Sampled-Data Control for Markovian Jump Systems. Chen, G., +, TSMC July 2020 2671-2684
- Sampled-Data Consensus for Multiagent Systems With Time Delays and Packet Losses. Xing, M., +, TSMC Jan. 2020 203-210
- Sampled-Data State Estimation for Complex Networks With Partial Measurements. Zhou, D., +, TSMC Nov. 2020 4787-4795
- Sampled-Data State Feedback Control for the Set Stabilization of Boolean Control Networks. Zhu, S., +, TSMC April 2020 1580-1589
- Sampled-Data Synchronization of Network Systems in Industrial Manufacture. *Wu*, *Y*, +, *TSMC Sept. 2020 3210-3219*
- Stability Analysis of T–S Fuzzy Control System With Sampled-Dropouts Based on Time-Varying Lyapunov Function Method. Wang, Z., +, TSMC July 2020 2566-2577

## Sampling methods

- Deep Reinforced Learning Tree for Spatiotemporal Monitoring With Mobile Robotic Wireless Sensor Networks. *Chen, J.*, +, *TSMC Nov. 2020 4197-4211*
- Utility-Based Model for Characterizing the Evolution of Social Networks. Li, Y., +, TSMC March 2020 1083-1094

# SCADA systems

A2G2V: Automatic Attack Graph Generation and Visualization and Its Applications to Computer and SCADA Networks. *Al Ghazo, A.T.*, +, *TSMC Oct. 2020 3488-3498* 

#### Scalability

Special Issue on Event-Triggered Control and Filtering of Distributed Networked Systems. *Han, Q.*, +, *TSMC Sept. 2020 3108-3111* 

## Scheduling

- A Novel Rescheduling Method for Dynamic Semiconductor Manufacturing Systems. *Qiao, F., +, TSMC May 2020 1679-1689*
- Bi-Objective Optimal Scheduling With Raw Material's Shelf-Life Constraints in Unrelated Parallel Machines Production. *Wang, M.*, +, *TSMC Nov. 2020 4598-4610*
- Deadlock-Free Scheduling of Flexible Assembly Systems Based on Petri Nets and Local Search. *Luo*, *J.*, +, *TSMC Oct. 2020 3658-3669*
- Dynamic Event-Triggered Distributed Coordination Control and its Applications: A Survey of Trends and Techniques. *Ge, X.*, +, *TSMC Sept. 2020* 3112-3125
- Efficient Approach to Scheduling of Transient Processes for Time-Constrained Single-Arm Cluster Tools With Parallel Chambers. *Yang, F.*, +, *TSMC Oct. 2020 3646-3657*
- Energy-Efficient Scheduling of Real-Time Tasks in Reconfigurable Homogeneous Multicore Platforms. *Gammoudi*, A., +, TSMC Dec. 2020 5092-5105
- Energy-Efficient Subway Train Scheduling Design With Time-Dependent Demand Based on an Approximate Dynamic Programming Approach. *Liu*, *R.*, +, *TSMC July 2020 2475-2490*
- Joint Energy, Maintenance, and Throughput Modeling for Sustainable Manufacturing Systems. Sun, Z., +, TSMC June 2020 2101-2112
- ManuChain: Combining Permissioned Blockchain With a Holistic Optimization Model as Bi-Level Intelligence for Smart Manufacturing. Leng, J., +, TSMC Jan. 2020 182-192

- Modeling and Analyzing Dynamic Fault-Tolerant Strategy for Deadline Constrained Task Scheduling in Cloud Computing. Fan, G., +, TSMC April 2020 1260-1274
- Modeling and Optimal Cyclic Scheduling of Time-Constrained Single-Robot-Arm Cluster Tools via Petri Nets and Linear Programming. *Yang, F.*, +, *TSMC March 2020 871-883*
- Multiobjective Scheduling of Dual-Blade Robotic Cells in Wafer Fabrication. Zhu, Q., +, TSMC Dec. 2020 5015-5023
- Performability Evaluation of Water Distribution Systems During Maintenance Procedures. Carnevali, L., +, TSMC May 2020 1704-1720
- Smoothed Graphic User Interaction on Smartphones With Motion Prediction. Lin, Y., +, TSMC April 2020 1429-1441
- The Orthogonal Packing and Scheduling Problem: Model, Heuristic, and Benchmark. *He, K.*, +, *TSMC April 2020 1372-1383*

#### Search problems

- A Hybrid Multiobjective Memetic Algorithm for Multiobjective Periodic Vehicle Routing Problem With Time Windows. *Wang, J.*, +, *TSMC Nov.* 2020 4732-4745
- A Knowledge-Based Cooperative Algorithm for Energy-Efficient Scheduling of Distributed Flow-Shop. Wang, J., +, TSMC May 2020 1805-1819
- A Three-Stage Multiobjective Approach Based on Decomposition for an Energy-Efficient Hybrid Flow Shop Scheduling Problem. *Zhang, B.*, +, *TSMC Dec. 2020 4984-4999*
- An Effective Local Search Algorithm for the Multidepot Cumulative Capacitated Vehicle Routing Problem. *Wang, X.*, +, *TSMC Dec. 2020 4948-4958*
- An Evaluation and Optimization Methodology for Efficient Power Plant Programs. Han, W., +, TSMC Feb. 2020 707-716
- An MCDM-Based Multiobjective General Variable Neighborhood Search Approach for Disassembly Line Balancing Problem. *Ren, Y.*, +, *TSMC Oct.* 2020 3770-3783
- Bi-Objective Optimal Scheduling With Raw Material's Shelf-Life Constraints in Unrelated Parallel Machines Production. *Wang, M.*, +, *TSMC Nov. 2020 4598-4610*
- Context-Aware Decision Support for Anti-Submarine Warfare Mission Planning Within a Dynamic Environment. *Mishra, M.*, +, *TSMC Jan. 2020* 318-335
- Deadlock-Free Scheduling of Flexible Assembly Systems Based on Petri Nets and Local Search. *Luo*, *J.*, +, *TSMC Oct. 2020 3658-3669*
- Finding Multiple Roots of Nonlinear Equation Systems via a Repulsion-Based Adaptive Differential Evolution. *Gong, W.*, +, *TSMC April* 2020 1499-1513
- Multiobjective Differential Evolution With Personal Archive and Biased Self-Adaptive Mutation Selection. *Wang, X.*, +, *TSMC Dec. 2020 5338-5350*
- Multiple-Solution Optimization Strategy for Multirobot Task Allocation. Huang, L., +, TSMC Nov. 2020 4283-4294
- Scheduling Dual-Objective Stochastic Hybrid Flow Shop With Deteriorating Jobs via Bi-Population Evolutionary Algorithm. *Fu*, *Y*, +, *TSMC Dec.* 2020 5037-5048
- The Spiral Optimization Algorithm: Convergence Conditions and Settings. *Tamura, K., +, TSMC Jan. 2020 360-375*

## Seats

Active Control of Uncertain Seat Suspension System Based on a State and Disturbance Observer. *Lathkar*; M.S., +, TSMC March 2020 840-850

# Security of data

- A Risk-Based Dynamic Decision-Making Approach for Cybersecurity Protection in Industrial Control Systems. *Qin, Y.*, +, *TSMC Oct. 2020 3863-3870*
- BeiNet: A Biased Contest-Based Crowdsourcing Incentive Mechanism Through Exploiting Social Networks. *Wang, Y.*, +, *TSMC Aug. 2020 2926-2937*
- Development, Optimization, and Validation of Unintended Radiated Emissions Processing System for Threat Identification. *Friedel, J.E.*, +, *TSMC June 2020 2208-2219*
- Event-Based Tracking Control of Mobile Robot With Denial-of-Service Attacks. *Tang, Y.*, +, *TSMC Sept. 2020 3300-3310*

Resilient Nonlinear Control for Attacked Cyber-Physical Systems. *Pang, Y.*, +, *TSMC June 2020 2129-2138* 

# Self-organizing feature maps

A Clustering-Based Nonlinear Ensemble Approach for Exchange Rates Forecasting. Sun, S., +, TSMC June 2020 2284-2292

Hybrid Intelligent Decision Support Using a Semiotic Case-Based Reasoning and Self-Organizing Maps. Martins, D.M.L., +, TSMC March 2020 863-870

## Semiconductor device manufacture

- A Novel Rescheduling Method for Dynamic Semiconductor Manufacturing Systems. *Qiao, F., +, TSMC May 2020 1679-1689*
- Efficient Approach to Scheduling of Transient Processes for Time-Constrained Single-Arm Cluster Tools With Parallel Chambers. *Yang, F.*, +, *TSMC Oct. 2020 3646-3657*
- Multiobjective Scheduling of Dual-Blade Robotic Cells in Wafer Fabrication. Zhu, Q., +, TSMC Dec. 2020 5015-5023

# Semiconductor industry

- Efficient Approach to Scheduling of Transient Processes for Time-Constrained Single-Arm Cluster Tools With Parallel Chambers. *Yang, F.*, +, *TSMC Oct. 2020 3646-3657*
- Modeling and Optimal Cyclic Scheduling of Time-Constrained Single-Robot-Arm Cluster Tools via Petri Nets and Linear Programming. *Yang, F.*, +, *TSMC March 2020 871-883*
- Multiobjective Scheduling of Dual-Blade Robotic Cells in Wafer Fabrication. Zhu, Q., +, TSMC Dec. 2020 5015-5023

## Semiconductor technology

- Efficient Approach to Scheduling of Transient Processes for Time-Constrained Single-Arm Cluster Tools With Parallel Chambers. *Yang, F.*, +, *TSMC Oct. 2020 3646-3657*
- Modeling and Optimal Cyclic Scheduling of Time-Constrained Single-Robot-Arm Cluster Tools via Petri Nets and Linear Programming. *Yang, F.*, +, *TSMC March 2020 871-883*

## Sensitivity analysis

A Probabilistic Linguistic Group Decision-Making Method From a Reliability Perspective Based on Evidential Reasoning. *Ma*, *Z*., +, *TSMC July 2020* 2421-2435

EventiC: A Real-Time Unbiased Event-Based Learning Technique for Complex Systems. Danishvar, M., +, TSMC May 2020 1649-1662

## Sensor fusion

- A Bank of Decentralized Extended Information Filters for Target Tracking in Event-Triggered WSNs. *Yang, X., +, TSMC Sept. 2020 3281-3289*
- Adaptive Quantized Estimation Fusion Using Strong Tracking Filtering and Variational Bayesian. Ge, Q., +, TSMC March 2020 899-910
- Compensating Delays and Noises in Motion Control of Autonomous Electric Vehicles by Using Deep Learning and Unscented Kalman Predictor. *Li*, *Y*, +, *TSMC Nov. 2020 4326-4338*
- Event-Triggered Distributed Fusion Estimation of Networked Multisensor Systems With Limited Information. *Yan, H.*, +, *TSMC Dec. 2020 5330-5337*
- Stability Analysis of Covariance Intersection-Based Kalman Consensus Filtering for Time-Varying Systems. *Wei, G., +, TSMC Nov. 2020 4611-4622*
- Target Following and Close Monitoring Using an Unmanned Surface Vehicle. *Kim, J., TSMC Nov. 2020 4233-4242*
- Target State and Markovian Jump Ionospheric Height Bias Estimation for OTHR Tracking Systems. *Geng, H.*, +, *TSMC July 2020 2599-2611*

# Sensor placement

- Deep Reinforced Learning Tree for Spatiotemporal Monitoring With Mobile Robotic Wireless Sensor Networks. *Chen, J.*, +, *TSMC Nov. 2020 4197-4211*
- Efficient Sensor Deployments for Spatio-Temporal Environmental Monitoring. Nguyen, L., +, TSMC Dec. 2020 5306-5316

# Sensors

Robust Finite-Horizon Filtering for 2-D Systems With Randomly Varying Sensor Delays. *Wang, F.,* +, *TSMC Jan. 2020 220-232* 

Special Issue on Event-Triggered Control and Filtering of Distributed Networked Systems. *Han*, Q., +, *TSMC Sept. 2020 3108-3111* 

## Sentiment analysis

An Innovative Sentiment Analysis to Measure Herd Behavior. Ren, R., +, TSMC Oct. 2020 3841-3851

# Service robots

A Distributed Control Framework of Multiple Unmanned Aerial Vehicles for Dynamic Wildfire Tracking. *Pham, H.X.,* +, *TSMC April 2020 1537-1548* 

# Servomechanisms

- Image Dynamics-Based Visual Servoing for Quadrotors Tracking a Target With a Nonlinear Trajectory Observer. *Cao, Z.*, +, *TSMC Jan. 2020 376-384*
- Observer-Based Integral Sliding Mode Tracking Control for a Pneumatic Cylinder With Varying Loads. *Zhao, L.*, +, *TSMC July 2020 2650-2658*
- TS Fuzzy Model-Based Controller Design for a Class of Nonlinear Systems Including Nonsmooth Functions. *Vafamand, N.*, +, *TSMC Jan. 2020 233-*244

## Servomotors

Toward a Maneuverable Miniature Robotic Fish Equipped With a Novel Magnetic Actuator System. *Chen, X.,* +, *TSMC July 2020 2327-2337* 

# Set theory

- A Heuristic Approach for Selecting Best-Subset Including Ranking Within the Subset. Choi, S.H., +, TSMC Oct. 2020 3852-3862
- Fully Distributed Low-Complexity Control for Nonlinear Strict-Feedback Multiagent Systems With Unknown Dead-Zone Inputs. *Wang, G.*, +, *TSMC Feb. 2020 421-431*
- Sampled-Data State Feedback Control for the Set Stabilization of Boolean Control Networks. *Zhu, S.*, +, *TSMC April 2020 1580-1589*

# Share prices

Reweighted Price Relative Tracking System for Automatic Portfolio Optimization. Lai, Z., +, TSMC Nov. 2020 4349-4361

#### Ships

Adaptive Robust Nonlinear Control Design for Course Tracking of Ships Subject to External Disturbances and Input Saturation. *Du*, *J.*, +, *TSMC Jan.* 2020 193-202

## Signal classification

- Brain–Robot Interface-Based Navigation Control of a Mobile Robot in Corridor Environments. Liu, Y., +, TSMC Aug. 2020 3047-3058
- Common Spatial Patterns Based on the Quantized Minimum Error Entropy Criterion. Chen, B., +, TSMC Nov. 2020 4557-4568
- Multidomain Features-Based GA Optimized Artificial Immune System for Bearing Fault Detection. *Abid*, *A.*, +, *TSMC Jan. 2020 348-359*

## Singularly perturbed systems

- Dynamic Event-Triggered State Estimation for Discrete-Time Singularly Perturbed Systems With Distributed Time-Delays. *Ma*, *L*., +, *TSMC Sept.* 2020 3258-3268
- Resilient Asynchronous  $H_{\infty}$  Control for Discrete-Time Markov Jump Singularly Perturbed Systems Based on Hidden Markov Model. *Li*, *F*, +, *TSMC Aug.* 2020 2860-2869

# Skin

Surgical Wounds Assessment System for Self-Care. Chen, Y, +, TSMC Dec. 2020 5076-5091

## SLAM (robots)

Brain–Robot Interface-Based Navigation Control of a Mobile Robot in Corridor Environments. *Liu*, Y., +, *TSMC Aug. 2020 3047-3058* 

#### Slurries

Color Filter Polishing Optimization Using ANFIS With Sliding-Level Particle Swarm Optimizer. *Tsai, J.*, +, *TSMC March 2020 1193-1207* 

# Smart buildings

Special Issue on Recent Advances in Petri Nets, Automata, and Discrete-Event Hybrid Systems. *Wisniewski, R.*, +, *TSMC Oct. 2020 3484-3487* 

## **Smart contracts**

Guest Editorial Special Issue on Blockchain and Economic Knowledge Automation. Yuan, Y, +, TSMC Jan. 2020 2-8

#### Smart phones

- A Utility Driven Post Disaster Emergency Resource Allocation System Using DTN. *Basu, S.*, +, *TSMC July 2020 2338-2350*
- Indoor Crowd Density Estimation Through Mobile Smartphone Wi-Fi Probes. Tang, X., +, TSMC July 2020 2638-2649

Smoothed Graphic User Interaction on Smartphones With Motion Prediction. *Lin, Y.*, +, *TSMC April 2020 1429-1441* 

#### Smart power grids

- Analysis of Consensus-Based Economic Dispatch Algorithm Under Time Delays. Zhao, C., +, TSMC Aug. 2020 2978-2988
- Co-Design of Distributed Model-Based Control and Event-Triggering Scheme for Load Frequency Regulation in Smart Grids. *Liu, S.*, +, *TSMC Sept. 2020 3311-3319*
- Dynamic Event-Triggered Distributed Coordination Control and its Applications: A Survey of Trends and Techniques. *Ge, X.*, +, *TSMC Sept. 2020* 3112-3125
- Optimal Dynamic Pricing for Trading-Off User Utility and Operator Profit in Smart Grid. Ferdous, J., +, TSMC Feb. 2020 455-467

#### **Smoothing methods**

A Full Density Stereo Matching System Based on the Combination of CNNs and Slanted-Planes. Chen, L., +, TSMC Feb. 2020 397-408

#### Social network theory

- Evolutionary Game Dynamics of Multiagent Systems on Multiple Community Networks. Zhang, J., +, TSMC Nov. 2020 4513-4529
- Social networking (online)
  - BeiNet: A Biased Contest-Based Crowdsourcing Incentive Mechanism Through Exploiting Social Networks. *Wang, Y.*, +, *TSMC Aug. 2020 2926-2937*
  - Context-Aware Reliable Crowdsourcing in Social Networks. Jiang, J., +, TSMC Feb. 2020 617-632
  - Dual Implicit Mining-Based Latent Friend Recommendation. Cui, L., +, TSMC May 2020 1663-1678
  - Exploring Trends and Patterns of Popularity Stage Evolution in Social Media. Kong, Q., +, TSMC Oct. 2020 3817-3827
  - Integrating Community Context Information Into a Reliably Weighted Collaborative Filtering System Using Soft Ratings. *Nguyen, V.*, +, *TSMC April* 2020 1318-1330
  - Integrating Multisourced Texts in Online Business Intelligence Systems. *Cao, J.*, +, *TSMC May 2020 1638-1648*
  - Maximum *a Posteriori* Estimation for Information Source Detection. *Chang*, *B.*, +, *TSMC June 2020 2242-2256*
  - Predicting the Evolution of Hot Topics: A Solution Based on the Online Opinion Dynamics Model in Social Network. *Jiang, L.*, +, *TSMC Oct.* 2020 3828-3840
  - Social Recommendation With Evolutionary Opinion Dynamics. *Xiong, F.*, +, *TSMC Oct. 2020 3804-3816*
  - The Anti-Social System Properties: Bitcoin Network Data Analysis. Alqassem, I., +, TSMC Jan. 2020 21-31
  - Utility-Based Model for Characterizing the Evolution of Social Networks. *Li*, *Y*, +, *TSMC March 2020 1083-1094*
  - We Know Who You Are: Discovering Similar Groups Across Multiple Social Networks. *Liu*, X., +, *TSMC July 2020 2693-2704*

#### Social sciences computing

Predicting the Evolution of Hot Topics: A Solution Based on the Online Opinion Dynamics Model in Social Network. *Jiang, L.*, +, *TSMC Oct.* 2020 3828-3840

## Socio-economic effects

Optimal CSR and Pricing Decisions With Risk-Averse Providers in a Competitive Shipping System. Zheng, W., +, TSMC Dec. 2020 4959-4973

# Software agents

- Context-Aware Service Provisioning via Agentized and Reconfigurable Multimodel Cooperation for Real-Life IoT-Enabled Smart Home Systems. *Lu, C., TSMC Aug. 2020 2914-2925*
- Model-Based Monitoring and Adaptation of Pacemaker Behavior Using Hierarchical Fuzzy Colored Petri-Nets. *Majma, N.*, +, *TSMC Sept. 2020* 3344-3357

# Software fault tolerance

Modeling and Analyzing Dynamic Fault-Tolerant Strategy for Deadline Constrained Task Scheduling in Cloud Computing. *Fan, G., +, TSMC April 2020 1260-1274* 

### Software reusability

Adaptive Discrete Event Simulation Systems to Embrace Changes of Requirements Using Event Control Models. *Kwon, S.J.*, +, *TSMC March* 2020 1147-1160

### Software tools

- An Evaluation Framework for Comparative Analysis of Generalized Stochastic Petri Net Simulation Techniques. *Rodriguez, R.J.*, +, *TSMC Aug.* 2020 2834-2844
- Supervisory Control of Blockchain Networks. Seow, K.T., TSMC Jan. 2020 159-171

#### Space vehicles

- Event-Triggered Sliding Mode Control for Attitude Stabilization of a Rigid Spacecraft. *Liu*, *Y*, +, *TSMC Sept. 2020 3290-3299*
- Robust Science-Optimal Spacecraft Control for Circular Orbit Missions. Nasir, A., +, TSMC March 2020 923-934

## Spatial filters

Common Spatial Patterns Based on the Quantized Minimum Error Entropy Criterion. Chen, B., +, TSMC Nov. 2020 4557-4568

#### Special issues and sections

- Editorial Special Issue on Adaptive Dynamic Programming and Reinforcement Learning. Liu, D., +, TSMC Nov. 2020 3944-3947
- Guest Editorial Special Issue on Blockchain and Economic Knowledge Automation. Yuan, Y., +, TSMC Jan. 2020 2-8
- Guest Editorial Special Issue on Fault Diagnosis and Adaptive Fault-Tolerant Control for Automatic Control Systems. *Kaynak, O.*, +, *TSMC Sept.* 2020 3330-3332
- Guest Editorial Special Issue: Modeling Support to Various Levels of Decision-Making. Olson, D.L., +, TSMC Oct. 2020 3728-3730
- Guest Editorial to the Special Issue on Logistics and Supply Chain Systems Engineering. *Choi, T., TSMC Dec. 2020 4852-4855*
- Special Issue on Event-Triggered Control and Filtering of Distributed Networked Systems. *Han*, *Q*., +, *TSMC Sept. 2020 3108-3111*
- Special Issue on Recent Advances in Petri Nets, Automata, and Discrete-Event Hybrid Systems. *Wisniewski, R., +, TSMC Oct. 2020 3484-3487*

# Spectral analysis

Influence of Time Pressure on Inhibitory Brain Control During Emergency Driving. *King, J.*, +, *TSMC Nov. 2020 4408-4414* 

Stability

- Maximinh Stability in the Graph Model for Conflict Resolution for Bilateral Conflicts. Rego, L.C., +, TSMC Oct. 2020 3760-3769
- A New Approach to Coalition Analysis Within the Graph Model. Zhu, Z., +, TSMC June 2020 2231-2241
- A Theoretical Framework for Stability Regions for Standing Balance of Humanoids Based on Their LIPM Treatment. *Kim, J.H.*, +, *TSMC Nov.* 2020 4569-4586
- Adaptive Backstepping Hybrid Fuzzy Sliding Mode Control for Uncertain Fractional-Order Nonlinear Systems Based on Finite-Time Scheme. *Song*, *S.*, +, *TSMC April 2020 1559-1569*
- Adaptive Dynamic Programming for Decentralized Stabilization of Uncertain Nonlinear Large-Scale Systems With Mismatched Interconnections. *Yang, X., +, TSMC Aug. 2020 2870-2882*
- Adaptive Dynamics Programming for  $H_{\infty}$  Control of Continuous-Time Unknown Nonlinear Systems via Generalized Fuzzy Hyperbolic Models. *Su, H.*, +, *TSMC Nov. 2020 3996-4008*
- Adaptive Fault-Tolerant Control of Uncertain Switched Nonaffine Nonlinear Systems With Actuator Faults and Time Delays. *Wu, L.*, +, *TSMC Sept.* 2020 3470-3480
- Adaptive Fault-Tolerant H-Infinity Output Feedback Control for Lead–Wing Close Formation Flight. *Liu*, *C*., +, *TSMC Aug. 2020 2804-2814*
- Adaptive Partial Reinforcement Learning Neural Network-Based Tracking Control for Wheeled Mobile Robotic Systems. *Ding, L.*, +, *TSMC July* 2020 2512-2523
- Adaptive Stabilization of Discrete-Time Nonminimum Phase Systems. *Que*, *H.*, +, *TSMC Aug*. 2020 2828-2833
- Adaptive Synchronization of Delayed Memristive Neural Networks With Unknown Parameters. Yang, Z., +, TSMC Feb. 2020 539-549

- An Adaptive Neural Network Controller for Active Suspension Systems With Hydraulic Actuator. *Liu*, *Y*, +, *TSMC Dec. 2020 5351-5360*
- Asynchronous Quasi-Consensus of Heterogeneous Multiagent Systems With Nonuniform Input Delays. Wang, Z., +, TSMC Aug. 2020 2815-2827
- Co-Design of Finite-Time Convergence and Noise Suppression: A Unified Neural Model for Time Varying Linear Equations With Robotic Applications. Xiao, L., +, TSMC Dec. 2020 5233-5243
- Continuous State Feedback Control Based on Intelligent Optimization for First-Order Nonholonomic Systems. *Lai*, X., +, *TSMC July 2020 2534-*2540
- Control Performance-Based Fault-Tolerant Control Strategy for Singular Systems. *Liu*, *D.*, +, *TSMC July 2020 2398-2407*
- Decentralized Adaptive NN Output-Feedback Fault Compensation Control of Nonlinear Switched Large-Scale Systems With Actuator Dead-Zones. *Ma*, *Z*., +, *TSMC Sept. 2020 3435-3447*
- Delta Operator-Based Model Predictive Control With Fault Compensation for Steer-by-Wire Systems. *Huang, C.*, +, *TSMC June 2020 2257-2272*
- Design and Analysis of a Novel Finite-Time Convergent and Noise-Tolerant Recurrent Neural Network for Time-Variant Matrix Inversion. *Li, W., TSMC Nov. 2020* 4362-4376
- Dissipative Fuzzy Filtering for Nonlinear Networked Systems With Limited Communication Links. *Chen, Z.*, +, *TSMC March 2020 962-971*
- Distributed Consensus of Linear Multiagent Systems: Laplacian Spectra-Based Method. Chen, Y., +, TSMC Feb. 2020 700-706
- Dynamic Output Feedback Asynchronous Control of Networked Markovian Jump Systems. *Liu, X.*, +, *TSMC July 2020 2705-2715*
- Error State Convergence on Master–Slave Generalized Uncertain Neural Networks Using Robust Nonlinear H<sub>∞</sub> Control Theory. *Chen, H.*, +, *TSMC June 2020 2042-2055*
- Event-Based Security Control for Stochastic Networked Systems Subject to Attacks. Yan, H., +, TSMC Nov. 2020 4643-4654
- Event-Triggered Adaptive Critic Control Design for Discrete-Time Constrained Nonlinear Systems. *Ha*, *M.*, +, *TSMC Sept. 2020 3158-3168*
- Event-Triggered Integral Sliding-Mode Control for Nonlinear Constrained-Input Systems With Disturbances via Adaptive Dynamic Programming. Yang, D., +, TSMC Nov. 2020 4086-4096
- Event-Triggered Robust Stabilization of Nonlinear Input-Constrained Systems Using Single Network Adaptive Critic Designs. *Yang, X.*, +, *TSMC Sept. 2020 3145-3157*
- Event-Triggered Sliding Mode Control for Attitude Stabilization of a Rigid Spacecraft. *Liu*, *Y*, +, *TSMC Sept. 2020 3290-3299*
- Filtering Design for Multirate Sampled-Data Systems. *Li*, *Z.*, +, *TSMC Nov.* 2020 4224-4232
- Finite-Time Adaptive Fuzzy Decentralized Control for Nonstrict-Feedback Nonlinear Systems With Output-Constraint. *Li*, *K*., +, *TSMC Dec. 2020* 5271-5284
- Finite-Time Control of Continuous-Time Networked Dynamical Systems. Liu, H., +, TSMC Nov. 2020 4623-4632
- Formation Control of Multiple Mobile Robots Incorporating an Extended State Observer and Distributed Model Predictive Approach. *Liu, A.*, +, *TSMC Nov. 2020 4587-4597*
- Fuzzy Adaptive Output Feedback Control for MIMO Switched Nontriangular Structure Nonlinear Systems With Unknown Control Directions. *Huang*, L., +, TSMC Feb. 2020 550-564
- Fuzzy Adaptive Quantized Fault-Tolerant Control of Strict-Feedback Nonlinear Systems With Mismatched External Disturbances. *Jing, Y.*, +, *TSMC Sept. 2020 3424-3434*
- Guaranteed Cost Control of Uncertain Networked Control Systems With a Hybrid Communication Scheme. *Zhang, J.*, +, *TSMC Sept. 2020 3126-3135*
- Image Dynamics-Based Visual Servoing for Quadrotors Tracking a Target With a Nonlinear Trajectory Observer. *Cao, Z.*, +, *TSMC Jan. 2020 376-384*
- Interval Observers Design for Polynomial Fuzzy Singular Systems by Utilizing Sum-of-Squares Program. Pang, B., +, TSMC June 2020 1999-2006

Invariant Adaptive Dynamic Programming for Discrete-Time Optimal Control. *Zhu, Y.*, +, *TSMC Nov. 2020 3959-3971* 

- Multistability of Recurrent Neural Networks With Piecewise-Linear Radial Basis Functions and State-Dependent Switching Parameters. *Guo, Z.*, +, *TSMC Nov. 2020 4458-4471*
- N-Step MPC for Systems With Persistent Bounded Disturbances Under SCP. Song, Y., +, TSMC Nov. 2020 4762-4772
- Nonsmooth Decentralized Stabilization for Interconnected Systems Subject to Strongly Coupled Uncertain Interactions. *Zhang, C.*, +, *TSMC July 2020* 2685-2692
- Observer-Based Consensus of Nonlinear Multiagent Systems With Relative State Estimate Constraints. *Chu, H.,* +, *TSMC July 2020 2456-2465*
- Observer-Based Integral Sliding Mode Tracking Control for a Pneumatic Cylinder With Varying Loads. *Zhao, L.*, +, *TSMC July 2020 2650-2658*
- Perimeter Control of Multiregion Urban Traffic Networks With Time-Varying Delays. Wan, Y., +, TSMC Aug. 2020 2795-2803
- Pinning a Complex Network to Follow a Target System With Predesigned Control Inputs. *Wen, G.*, +, *TSMC June 2020 2293-2304*
- Practically Finite-Time Control for Nonlinear Systems With Mismatching Conditions and Application to a Robot System. *Min, H.*, +, *TSMC Feb.* 2020 480-489
- Predictive Control of Networked Nonlinear Multiagent Systems With Communication Constraints. *Liu, G., TSMC Nov. 2020 4447-4457*
- Realization of Exact Tracking Control for Nonlinear Systems via a Nonrecursive Dynamic Design. Zhang, C., +, TSMC Feb. 2020 577-589
- Reducing the Conservatism of Stabilization for Discrete-Time Takagi– Sugeno Fuzzy Systems via a New Extended Representation Approach. *Xie*, *X.*, +, *TSMC Nov. 2020 4387-4393*
- Reinforcement Q-Learning Algorithm for H<sub>∞</sub> Tracking Control of Unknown Discrete-Time Linear Systems. *Peng, Y*, +, *TSMC Nov. 2020 4109-4122*
- Reliable Leader-to-Follower Formation Control of Multiagent Systems Under Communication Quantization and Attacks. *Huang, X.*, +, *TSMC Jan. 2020 89-99*
- Robust Hybrid Nonlinear Control Systems for the Dynamics of a Quadcopter Drone. Santoso, F., +, TSMC Aug. 2020 3059-3071
- Robust Optimal Control Scheme for Unknown Constrained-Input Nonlinear Systems via a Plug-n-Play Event-Sampled Critic-Only Algorithm. *Zhang*, H., +, TSMC Sept. 2020 3169-3180
- Sampled-Data Consensus for Multiagent Systems With Time Delays and Packet Losses. *Xing, M.*, +, *TSMC Jan. 2020 203-210*
- Sampled-Data State Feedback Control for the Set Stabilization of Boolean Control Networks. Zhu, S., +, TSMC April 2020 1580-1589
- Sampled-Data Synchronization of Network Systems in Industrial Manufacture. *Wu, Y., +, TSMC Sept. 2020 3210-3219*
- Self-Triggered and Event-Triggered Control for Linear Systems With Quantization. Zhou, T., +, TSMC Sept. 2020 3136-3144
- Self-Triggered State-Feedback Control for Stochastic Nonlinear Systems With Markovian Switching. Xie, W., +, TSMC Sept. 2020 3200-3209
- Sliding-Mode Control for Stabilizing High-Order Stochastic Systems: Application to One-Degree-of-Freedom Aerial Device. *Vargas, A.N.*, +, *TSMC Nov. 2020 4318-4325*
- Stability Analysis for Homogeneous Hybrid Systems With Delays. He, Y, +, TSMC Oct. 2020 3554-3561
- Stability and *l*<sub>2</sub> -Gain Analysis of Discrete-Time Switched Systems with Mode-Dependent Average Dwell Time. *Liu*, *L*., +, *TSMC June 2020 2305-2314*
- Stability, l<sub>2</sub>-Gain Analysis, and Parity Space-Based Fault Detection for Discrete-Time Switched Systems Under Dwell-Time Switching. Sun, T., +, TSMC Sept. 2020 3358-3368
- Stabilization of Linear Systems With Input Saturation and Large Delay. Li, P., +, TSMC Nov. 2020 4482-4491
- Switching Adaptive Controller for the Nonlinear Systems With Uncertainties From Unknown Powers. Wang, M., +, TSMC July 2020 2375-2385
- The Design of Quasi-Optimal Higher Order Sliding Mode Control via Disturbance Observer and Switching-Gain Adaptation. *Li*, *P*., +, *TSMC Nov.* 2020 4817-4827
- Stability criteria
  - A Hybrid Proportional Impulsive Plus Integral Robust Control Algorithm for H∞ Stabilization. *Chen, H.,* +, *TSMC Dec. 2020 5211-5220*

- Delay-Hybrid-Dependent Stability for Systems With Large Delays. Sun, X., +, TSMC July 2020 2752-2759
- Stability Analysis for Delayed Neural Networks via Some Switching Methods. Li, X., +, TSMC May 2020 1690-1695
- Synchronization Control for Neutral Stochastic Delay Markov Networks via Single Pinning Impulsive Strategy. *Chen, H.*, +, *TSMC Dec. 2020 5406-5419*

#### State estimation

- A Bank of Decentralized Extended Information Filters for Target Tracking in Event-Triggered WSNs. *Yang, X.*, +, *TSMC Sept. 2020 3281-3289*
- Adaptive Quantized Estimation Fusion Using Strong Tracking Filtering and Variational Bayesian. Ge, Q., +, TSMC March 2020 899-910
- Dynamic Event-Triggered State Estimation for Discrete-Time Singularly Perturbed Systems With Distributed Time-Delays. *Ma*, *L*., +, *TSMC Sept.* 2020 3258-3268
- Event-Triggered  $H_{\infty}$  State Estimation of 2-DOF Quarter-Car Suspension Systems With Nonhomogeneous Markov Switching. *Yan, H.*, +, *TSMC Sept. 2020 3320-3329*
- Finite-Horizon  $H_{\infty}$  State Estimation for Time-Varying Neural Networks with Periodic Inner Coupling and Measurements Scheduling. Xu, Y, +, TSMC Jan. 2020 211-219
- Finite-Horizon Distributed State Estimation Under Randomly Switching Topologies and Redundant Channels. Dong, H., +, TSMC Aug. 2020 2938-2947
- Nonfragile  $l_2 l_{\infty}$  Fault Estimation for Markovian Jump 2-D Systems With Specified Power Bounds. *Luo*, Y., +, *TSMC May 2020 1964-1975*
- Observer-Based Consensus of Nonlinear Multiagent Systems With Relative State Estimate Constraints. Chu, H., +, TSMC July 2020 2456-2465
- Robust Distributed  $H_{\infty}$  State Estimation for Stochastic Periodic Systems Over Constraint Sensor Networks. *Li*, *J.*, +, *TSMC Nov. 2020* 4396-4407
- Simultaneous Input and State Estimation for Integrated Motor-Transmission Systems in a Controller Area Network Environment via an Adaptive Unscented Kalman Filter. *Jiang, K.*, +, *TSMC April 2020 1570-1579*
- Target State and Markovian Jump Ionospheric Height Bias Estimation for OTHR Tracking Systems. *Geng, H.*, +, *TSMC July 2020 2599-2611*

### State feedback

- Consensus of Discrete-Time Multiagent Systems With State, Input, and Communication Delays. *Liu*, Q., +, *TSMC Nov. 2020 4425-4437*
- Continuous State Feedback Control Based on Intelligent Optimization for First-Order Nonholonomic Systems. *Lai*, X., +, *TSMC July 2020 2534-2540*
- Data-Driven Guaranteed Cost Control Design via Reinforcement Learning for Linear Systems With Parameter Uncertainties. Wu, H., +, TSMC Nov. 2020 4151-4159
- Dissipative Fuzzy Tracking Control for Nonlinear Networked Systems With Quantization. Li, Z., +, TSMC Dec. 2020 5130-5141
- Distributed Optimal Steady-State Regulation for High-Order Multiagent Systems With External Disturbances. *Tang, Y., TSMC Nov. 2020 4828-*4835
- Error State Convergence on Master–Slave Generalized Uncertain Neural Networks Using Robust Nonlinear  $H_{\infty}$  Control Theory. *Chen, H.*, +, *TSMC June 2020 2042-2055*
- Event-Triggered Adaptive Critic Control Design for Discrete-Time Constrained Nonlinear Systems. *Ha*, *M.*, +, *TSMC Sept. 2020 3158-3168*
- Passivity-Based Robust Sampled-Data Control for Markovian Jump Systems. Chen, G., +, TSMC July 2020 2671-2684
- Performance Improvement of Consensus Tracking for Linear Multiagent Systems With Input Saturation: A Gain Scheduled Approach. *Chu, H.*, +, *TSMC March 2020 734-746*
- Sampled-Data State Feedback Control for the Set Stabilization of Boolean Control Networks. Zhu, S., +, TSMC April 2020 1580-1589
- Self-Triggered State-Feedback Control for Stochastic Nonlinear Systems With Markovian Switching. Xie, W., +, TSMC Sept. 2020 3200-3209

#### State-space methods

Improved Control for Industrial Systems Over Model Uncertainty: A Receding Horizon Expanded State Space Control Approach. *Zhang, R., TSMC April 2020 1343-1349* 

- Improved Minmax Control for Industrial Networked Systems Over Imperfect Communication. Jin, Q., +, TSMC April 2020 1310-1317
- Multistability of Recurrent Neural Networks With Piecewise-Linear Radial Basis Functions and State-Dependent Switching Parameters. *Guo*, Z., +, *TSMC Nov. 2020 4458-4471*
- Neuro-Optimal Control for Discrete Stochastic Processes via a Novel Policy Iteration Algorithm. *Liang*, *M.*, +, *TSMC Nov. 2020 3972-3985*
- Nonfragile  $l_2 l_{\infty}$  Fault Estimation for Markovian Jump 2-D Systems With Specified Power Bounds. *Luo*, Y., +, *TSMC May 2020 1964-1975*
- Performability Evaluation of Water Distribution Systems During Maintenance Procedures. *Carnevali, L.,* +, *TSMC May 2020 1704-1720*
- Reliable Control for Two-Dimensional Systems Subject to Extended Dissipativity. *Tao, J.*, +, *TSMC July 2020 2760-2765*

# Statistical analysis

- An Interventionalist-Behavior-Based Data Fusion Framework for Guidewire Tracking in Percutaneous Coronary Intervention. *Zhou, X.*, +, *TSMC Nov.* 2020 4836-4849
- Integrated Network Design of Agile Resource-Efficient Supply Chains Under Uncertainty. *Dotoli, M.*, +, *TSMC Nov. 2020 4530-4544*
- Toward Hand-Dominated Activity Recognition Systems With Wristband-Interaction Behavior Analysis. *Shen, C.*, +, *TSMC July 2020 2501-2511*

# Statistical distributions

- Context-Aware Decision Support for Anti-Submarine Warfare Mission Planning Within a Dynamic Environment. *Mishra, M.*, +, *TSMC Jan. 2020* 318-335
- Extended Dissipative Filtering for Persistent Dwell-Time Switched Systems With Packet Dropouts. *Shen, H.,* +, *TSMC Nov. 2020 4796-4806*

## Statistical testing

Pareto Set Selection for Multiobjective Stochastic Simulation Model. *Choi*, S.H., +, *TSMC Nov. 2020 4256-4269* 

### Steering systems

- Adaptive Robust Nonlinear Control Design for Course Tracking of Ships Subject to External Disturbances and Input Saturation. *Du, J.*, +, *TSMC Jan. 2020 193-202*
- Delta Operator-Based Model Predictive Control With Fault Compensation for Steer-by-Wire Systems. *Huang, C.*, +, *TSMC June 2020 2257-2272*
- TS Fuzzy Model-Based Controller Design for a Class of Nonlinear Systems Including Nonsmooth Functions. *Vafamand, N.*, +, *TSMC Jan. 2020 233-*244

#### Steganography

Securing Data in Internet of Things (IoT) Using Cryptography and Steganography Techniques. *Khari, M.*, +, *TSMC Jan. 2020 73-80* 

### Stereo image processing

A Full Density Stereo Matching System Based on the Combination of CNNs and Slanted-Planes. *Chen, L.*, +, *TSMC Feb. 2020 397-408* 

## Stochastic processes

- A Heuristic Approach for Selecting Best-Subset Including Ranking Within the Subset. Choi, S.H., +, TSMC Oct. 2020 3852-3862
- An Evaluation Framework for Comparative Analysis of Generalized Stochastic Petri Net Simulation Techniques. *Rodriguez, R.J.*, +, *TSMC Aug.* 2020 2834-2844
- An Incremental Probability Model for Dynamic Systems. Kohn, W., +, TSMC June 2020 2083-2092
- Gradient-Based Particle Filter Algorithm for an ARX Model With Nonlinear Communication Output. Chen, J., +, TSMC June 2020 2198-2207
- Necessary and Sufficient Conditions for Leader-Following Bipartite Consensus With Measurement Noise. Ma, C., +, TSMC May 2020 1976-1981
- Neuro-Optimal Control for Discrete Stochastic Processes via a Novel Policy Iteration Algorithm. *Liang, M.*, +, *TSMC Nov. 2020 3972-3985*
- Nonfragile  $l_2 l_{\infty}$  Fault Estimation for Markovian Jump 2-D Systems With Specified Power Bounds. *Luo*, Y., +, *TSMC May 2020 1964-1975*
- Pareto Set Selection for Multiobjective Stochastic Simulation Model. *Choi*, S.H., +, TSMC Nov. 2020 4256-4269
- Performability Evaluation of Water Distribution Systems During Maintenance Procedures. Carnevali, L., +, TSMC May 2020 1704-1720
- Random Gradient-Free Optimization for Multiagent Systems With Communication Noises Under a Time-Varying Weight Balanced Digraph. Wang, D., +, TSMC Jan. 2020 281-289

- Robust Distributed  $H_{\infty}$  State Estimation for Stochastic Periodic Systems Over Constraint Sensor Networks. *Li*, *J.*, +, *TSMC Nov. 2020* 4396-4407
- Scheduling Dual-Objective Stochastic Hybrid Flow Shop With Deteriorating Jobs via Bi-Population Evolutionary Algorithm. *Fu*, *Y*, +, *TSMC Dec.* 2020 5037-5048
- Self-Triggered State-Feedback Control for Stochastic Nonlinear Systems With Markovian Switching. Xie, W., +, TSMC Sept. 2020 3200-3209
- Stability Analysis of Covariance Intersection-Based Kalman Consensus Filtering for Time-Varying Systems. *Wei, G., +, TSMC Nov. 2020 4611-4622*
- Stability and Robust Stability of Stochastic Reaction–Diffusion Neural Networks With Infinite Discrete and Distributed Delays. *Sheng, Y.*, +, *TSMC May 2020 1721-1732*
- Synchronization Control for Neutral Stochastic Delay Markov Networks via Single Pinning Impulsive Strategy. *Chen, H.*, +, *TSMC Dec. 2020 5406-5419*

## Stochastic programming

Robust Aircraft Maintenance Routing Problem Using a Turn-Around Time Reduction Approach. *Eltoukhy, A.E.E.*, +, *TSMC Dec. 2020 4919-4932* Stochastic systems

- $\mathcal{H}_{\infty}$  PID Control With Fading Measurements: The Output-Feedback Case. *Zhao, D.*, +, *TSMC June 2020 2170-2180*
- Adaptive Fuzzy Tracking Control for a Class of Nonstrict-Feedback Stochastic Nonlinear Systems With Actuator Faults. *Su, H.*, +, *TSMC Sept.* 2020 3456-3469
- Adaptive Fuzzy Tracking Control of Nonlinear Switched Stochastic Systems With Prescribed Performance and Unknown Control Directions. *Liu*, *Y*, +, *TSMC Feb. 2020 590-599*
- An Event-Triggered Approach to Sliding Mode Control of Markovian Jump Lur'e Systems Under Hidden Mode Detections. *Song, J.*, +, *TSMC April* 2020 1514-1525
- Consensus Seeking in Multiagent Systems With Markovian Switching Topology Under Aperiodic Sampled Data. *Wang, X.*, +, *TSMC Dec. 2020* 5189-5200
- Disturbance-Observer-Based Fault Tolerant Control of High-Speed Trains: A Markovian Jump System Model Approach. *Yao, X.*, +, *TSMC April 2020* 1476-1485
- Dynamic Event-Triggered State Estimation for Discrete-Time Singularly Perturbed Systems With Distributed Time-Delays. *Ma*, *L.*, +, *TSMC Sept.* 2020 3258-3268
- Dynamic Output Feedback Asynchronous Control of Networked Markovian Jump Systems. *Liu*, X., +, *TSMC July 2020 2705-2715*
- Event-Based Security Control for Stochastic Networked Systems Subject to Attacks. Yan, H., +, TSMC Nov. 2020 4643-4654
- Finite-Horizon Distributed State Estimation Under Randomly Switching Topologies and Redundant Channels. Dong, H., +, TSMC Aug. 2020 2938-2947
- Guaranteed Cost Control of Uncertain Networked Control Systems With a Hybrid Communication Scheme. *Zhang, J.*, +, *TSMC Sept. 2020 3126-3135*
- Necessary and Sufficient Conditions for Leader-Following Bipartite Consensus With Measurement Noise. Ma, C., +, TSMC May 2020 1976-1981
- Neural Network-Based Adaptive Control for Pure-Feedback Stochastic Nonlinear Systems With Time-Varying Delays and Dead-Zone Input. *Li*, *Z.*, +, *TSMC Dec. 2020 5317-5329*
- Nonfragile l<sub>2</sub> –l<sub>∞</sub> Fault Estimation for Markovian Jump 2-D Systems With Specified Power Bounds. *Luo*, Y, +, *TSMC May 2020 1964-1975*
- On the Solvability of Feedback Complete Linearization of Nonlinear Stochastic Systems. *Beheshtipour, Z., +, TSMC March 2020 1074-1082*
- Parameters Variation-Based Synchronization on Derivative Coupled Lur'e Networks. *Tang*, Z., +, *TSMC Dec. 2020 5395-5405*
- Pareto Set Selection for Multiobjective Stochastic Simulation Model. *Choi,* S.H., +, TSMC Nov. 2020 4256-4269
- Passivity-Based Robust Sampled-Data Control for Markovian Jump Systems. Chen, G., +, TSMC July 2020 2671-2684
- Performability Evaluation of Water Distribution Systems During Maintenance Procedures. Carnevali, L., +, TSMC May 2020 1704-1720

- Resilient Asynchronous H<sub>∞</sub> Control for Discrete-Time Markov Jump Singularly Perturbed Systems Based on Hidden Markov Model. *Li*, *F.*, +, *TSMC Aug. 2020 2860-2869*
- Robust Distributed H<sub>∞</sub> State Estimation for Stochastic Periodic Systems Over Constraint Sensor Networks. Li, J., +, TSMC Nov. 2020 4396-4407
- Robust Finite-Horizon Filtering for 2-D Systems With Randomly Varying Sensor Delays. Wang, F., +, TSMC Jan. 2020 220-232
- Self-Triggered State-Feedback Control for Stochastic Nonlinear Systems With Markovian Switching. Xie, W., +, TSMC Sept. 2020 3200-3209
- Sliding-Mode Control for Stabilizing High-Order Stochastic Systems: Application to One-Degree-of-Freedom Aerial Device. Vargas, A.N., +, TSMC Nov. 2020 4318-4325
- Synchronization Analysis for Stochastic Delayed Multilayer Network With Additive Couplings. *Zhuang*, J., +, *TSMC Nov. 2020 4807-4816*
- Synchronization Control for Neutral Stochastic Delay Markov Networks via Single Pinning Impulsive Strategy. *Chen, H., +, TSMC Dec. 2020 5406-5419*

#### Stock control

Stock Management Problem: Adaptive Fixed-Time Convergent Continuous Controller Design. *Basin, M.V.,* +, *TSMC Dec. 2020 4974-4983* 

## Stock markets

- An Innovative Sentiment Analysis to Measure Herd Behavior. Ren, R., +, TSMC Oct. 2020 3841-3851
- Reweighted Price Relative Tracking System for Automatic Portfolio Optimization. Lai, Z., +, TSMC Nov. 2020 4349-4361

## Strategic planning

- Target or Not? Endogenous Advertising Strategy Under Competition. Zhang, J., +, TSMC Nov. 2020 4472-4481
- The Effect of Bidimensional Power Structure on Supply Chain Decisions and Performance. Chen, X., +, TSMC March 2020 1095-1110

### Structural engineering

- Low-Cost, Efficient Output-Only Infrastructure Damage Detection With Wireless Sensor Networks. *Contreras, W.*, +, *TSMC March 2020 1003-1012*
- Modeling and Analyzing Linear Wireless Sensor Networks With Backbone Support. Mo, Y, +, TSMC Oct. 2020 3912-3924

## Supervised learning

A Novel Semi-Supervised Sparse Bayesian Regression Based on Variational Inference for Industrial Datasets With Incomplete Outputs. *Zhao, J.*, +, *TSMC Nov. 2020 4773-4786* 

# Supply and demand

- $\rm H_{\infty}$  Consensus for Multiagent-Based Supply Chain Systems Under Switching Topology and Uncertain Demands. Li, Q., +, TSMC Dec. 2020 4905-4918
- Optimal Dynamic Pricing for Trading-Off User Utility and Operator Profit in Smart Grid. *Ferdous, J.*, +, *TSMC Feb. 2020 455-467*
- Scalable Hypernetwork-Based Manufacturing Services Supply Demand Matching Toward Industrial Internet Platforms. *Cheng, Y.*, +, *TSMC Dec.* 2020 5000-5014

## Supply chain management

- A BDI Modeling Approach for Decision Support in Supply Chain Quality Inspection. Yan, J., +, TSMC March 2020 884-898
- A Bi-Objective Model on Multiperiod Green Supply Chain Network Design. Zhen, L., TSMC March 2020 771-784
- A Cooperative Distributed Model Predictive Control Approach to Supply Chain Management. *Fu, D.*, +, *TSMC Dec. 2020 4894-4904*
- A Study of Product Quality and Marketing Efforts in Closed-Loop Supply Chains With Remanufacturing. *Chen, C.,* +, *TSMC Dec. 2020 4870-4881*
- Coordination and Enhancement Schemes for Quick Response Mass Customization Supply Chains With Consumer Returns and Salvage Value Considerations. *Guo*, S., +, *TSMC Feb. 2020 673-685*
- Environmental Taxes in Newsvendor Supply Chains: A Mean-Downside-Risk Analysis. Chan, H., +, TSMC Dec. 2020 4856-4869
- $H_{\infty}$  Consensus for Multiagent-Based Supply Chain Systems Under Switching Topology and Uncertain Demands. *Li*, *Q*., +, *TSMC Dec. 2020 4905-4918*
- Information Sharing in a Supply Chain With a Coopetitive Contract Manufacturer. Wang, J., +, TSMC May 2020 1777-1793

Integrated Network Design of Agile Resource-Efficient Supply Chains Under Uncertainty. *Dotoli*, *M.*, +, *TSMC Nov. 2020 4530-4544* 

Reverse Supply Chain Systems Coordination Across Multiple Links With Duopolistic Third Party Collectors. *Hosseini-Motlagh, S.*, +, *TSMC Dec.* 2020 4882-4893

- Stock Management Problem: Adaptive Fixed-Time Convergent Continuous Controller Design. *Basin, M.V.,* +, *TSMC Dec. 2020 4974-4983*
- The Effect of Bidimensional Power Structure on Supply Chain Decisions and Performance. Chen, X., +, TSMC March 2020 1095-1110

Value of Bargaining Contract in a Supply Chain System With Sustainability Investment: An Incentive Analysis. *Shi*, *X.*, +, *TSMC April 2020 1622-1634* **Supply chains** 

- A Study of Product Quality and Marketing Efforts in Closed-Loop Supply Chains With Remanufacturing. Chen, C., +, TSMC Dec. 2020 4870-4881
- Coordination and Enhancement Schemes for Quick Response Mass Customization Supply Chains With Consumer Returns and Salvage Value Considerations. *Guo*, S., +, *TSMC Feb. 2020 673-685*
- Guest Editorial to the Special Issue on Logistics and Supply Chain Systems Engineering. *Choi, T., TSMC Dec. 2020 4852-4855*
- H<sub>∞</sub> Consensus for Multiagent-Based Supply Chain Systems Under Switching Topology and Uncertain Demands. Li, Q., +, TSMC Dec. 2020 4905-4918
- Information Sharing in a Supply Chain With a Coopetitive Contract Manufacturer. Wang, J., +, TSMC May 2020 1777-1793
- Integrated Network Design of Agile Resource-Efficient Supply Chains Under Uncertainty. *Dotoli, M.*, +, *TSMC Nov. 2020 4530-4544*
- Reverse Supply Chain Systems Coordination Across Multiple Links With Duopolistic Third Party Collectors. *Hosseini-Motlagh, S.*, +, *TSMC Dec.* 2020 4882-4893
- The Effect of Bidimensional Power Structure on Supply Chain Decisions and Performance. Chen, X., +, TSMC March 2020 1095-1110

Value of Bargaining Contract in a Supply Chain System With Sustainability Investment: An Incentive Analysis. *Shi*, *X.*, +, *TSMC April 2020 1622-1634* **Support vector machines** 

- A Belief Rule-Based Expert System for Fault Diagnosis of Marine Diesel Engines. Xu, X., +, TSMC Feb. 2020 656-672
- A Novel Weber Local Binary Descriptor for Fingerprint Liveness Detection. Xia, Z., +, TSMC April 2020 1526-1536
- Collaborative Learning-Based Clustered Support Vector Machine for Modeling of Nonlinear Processes Subject to Noise. *Lu, X.*, +, *TSMC Dec. 2020* 5162-5171
- Detecting Seam-Carved Image by Extreme Learning Machines Using Patch Analysis Method, Jury Voting, and Combinatorial Fusion. *Cheng, H.*, +, *TSMC May 2020 1850-1864*
- Distributed Nonlinear Semiparametric Support Vector Machine for Big Data Applications on Spark Frameworks. *Diaz-Morales, R.*, +, *TSMC Nov. 2020* 4664-4675

Dynamic Emotion Understanding in Human–Robot Interaction Based on Two-Layer Fuzzy SVR-TS Model. Chen, L., +, TSMC Feb. 2020 490-501

Laser Beam Pointing Control With Piezoelectric Actuator Model Learning. *Qin, F.*, +, *TSMC March 2020 1024-1034* 

Toward Hand-Dominated Activity Recognition Systems With Wristband-Interaction Behavior Analysis. Shen, C., +, TSMC July 2020 2501-2511

#### Surface roughness

Color Filter Polishing Optimization Using ANFIS With Sliding-Level Particle Swarm Optimizer. *Tsai, J.*, +, *TSMC March 2020 1193-1207* 

## Surgery

Muscle Fatigue Induced Hand Tremor Clustering in Dynamic Laparoscopic Manipulation. *Chandra, S.,* +, *TSMC Dec. 2020 5420-5431* 

Surgical Wounds Assessment System for Self-Care. Chen, Y., +, TSMC Dec. 2020 5076-5091

## Surveillance

Context-Aware Dynamic Asset Allocation for Maritime Interdiction Operations. Sidoti, D., +, TSMC March 2020 1055-1073

# Suspensions (mechanical components)

Active Control of Uncertain Seat Suspension System Based on a State and Disturbance Observer. Lathkar, M.S., +, TSMC March 2020 840-850

- Adaptive Fault-Tolerant Compensation Control and Its Application to Nonlinear Suspension Systems. Pan, H., +, TSMC May 2020 1766-1776
- An Adaptive Neural Network Controller for Active Suspension Systems With Hydraulic Actuator. *Liu*, *Y*, +, *TSMC Dec. 2020 5351-5360*
- Event-Triggered H<sub>co</sub> State Estimation of 2-DOF Quarter-Car Suspension Systems With Nonhomogeneous Markov Switching. Yan, H., +, TSMC Sept. 2020 3320-3329

# Sustainable development

- A Knowledge-Based Cooperative Algorithm for Energy-Efficient Scheduling of Distributed Flow-Shop. Wang, J., +, TSMC May 2020 1805-1819
- Dual-Objective Optimization for Lane Reservation With Residual Capacity and Budget Constraints. *Wu, P., +, TSMC June 2020 2187-2197*
- Joint Energy, Maintenance, and Throughput Modeling for Sustainable Manufacturing Systems. *Sun, Z., +, TSMC June 2020 2101-2112*

### Switching systems (control)

- *H*<sub>∞</sub> Reliable Bumpless Transfer Control for Switched Systems With State and Rate Constraints. *Zhao, Y*, +, *TSMC Oct. 2020 3925-3935*
- Adaptive Fuzzy Tracking Control of Nonlinear Switched Stochastic Systems With Prescribed Performance and Unknown Control Directions. *Liu*, *Y*, +, *TSMC Feb. 2020 590-599*
- Dissipativity for Switched LPV Systems and Its Application: A Parameter and Dwell Time-Dependent Multiple Storage Functions Method. *Yang, D.*, +, *TSMC Feb. 2020 502-513*
- Distributed Voltage Regulation for Cyber-Physical Microgrids With Coupling Delays and Slow Switching Topologies. *Lai*, *J.*, +, *TSMC Jan. 2020 100-110*
- Event-Triggered and Self-Triggered H<sub>∞</sub> Control of Uncertain Switched Linear Systems. *Qi*, *Y*, +, *TSMC April 2020 1442-1454*
- Extended Dissipative Filtering for Persistent Dwell-Time Switched Systems With Packet Dropouts. *Shen, H.*, +, *TSMC Nov. 2020 4796-4806*
- Fuzzy Adaptive Output Feedback Control for MIMO Switched Nontriangular Structure Nonlinear Systems With Unknown Control Directions. *Huang*, L., +, TSMC Feb. 2020 550-564
- Multistability of Recurrent Neural Networks With Piecewise-Linear Radial Basis Functions and State-Dependent Switching Parameters. *Guo*, Z., +, *TSMC Nov. 2020 4458-4471*
- Neural Networks-Based Active Fault-Tolerant Control for a Class of Switched Nonlinear Systems With Its Application to RCL Circuit. *Tang, L.*, +, *TSMC Nov. 2020 4270-4282*
- Nonfragile and Nonsynchronous Synthesis of Reachable Set for Bernoulli Switched Systems. Che, W., +, TSMC Feb. 2020 726-731
- Stability Analysis and Control for Switched System With Bounded Actuators. Wang, Q., +, TSMC Nov. 2020 4506-4512
- Stability Analysis for Delayed Neural Networks via Some Switching Methods. Li, X., +, TSMC May 2020 1690-1695
- Stability and *l*<sub>2</sub> -Gain Analysis of Discrete-Time Switched Systems with Mode-Dependent Average Dwell Time. *Liu*, *L*., +, *TSMC June 2020 2305-2314*
- Stabilization of Linear Systems With Input Saturation and Large Delay. Li, P, +, TSMC Nov. 2020 4482-4491
- The Design of Quasi-Optimal Higher Order Sliding Mode Control via Disturbance Observer and Switching-Gain Adaptation. *Li*, *P*., +, *TSMC Nov.* 2020 4817-4827

## Synchronization

- A Self-Repairing Algorithm With Optimal Repair Path for Maintaining Motion Synchronization of Mobile Robot Network. *Liu, Z.*, +, *TSMC March* 2020 815-828
- Adaptive Synchronization of Delayed Memristive Neural Networks With Unknown Parameters. *Yang, Z., +, TSMC Feb. 2020 539-549*
- Asymptotic Frequency Synchronization of Kuramoto Model by Step Force. Mao, Y., +, TSMC Aug. 2020 2768-2778
- Error State Convergence on Master–Slave Generalized Uncertain Neural Networks Using Robust Nonlinear  $H_{\infty}$  Control Theory. *Chen, H.*, +, *TSMC June 2020 2042-2055*
- Formation Control of Multiple Mobile Robots Incorporating an Extended State Observer and Distributed Model Predictive Approach. *Liu, A.*, +, *TSMC Nov. 2020 4587-4597*

- Observer-Based Synchronization of Chaotic Systems Satisfying Incremental Quadratic Constraints and Its Application in Secure Communication. *Zhao, Y., +, TSMC Dec. 2020 5221-5232*
- Parameters Variation-Based Synchronization on Derivative Coupled Lur'e Networks. *Tang, Z.*, +, *TSMC Dec. 2020 5395-5405*
- Pinning a Complex Network to Follow a Target System With Predesigned Control Inputs. Wen, G., +, TSMC June 2020 2293-2304
- Sampled-Data Synchronization of Network Systems in Industrial Manufacture. Wu, Y., +, TSMC Sept. 2020 3210-3219
- Self-Triggered and Event-Triggered Control for Linear Systems With Quantization. Zhou, T., +, TSMC Sept. 2020 3136-3144
- Synchronization Analysis for Stochastic Delayed Multilayer Network With Additive Couplings. *Zhuang*, J., +, *TSMC Nov. 2020 4807-4816*
- Synchronization Control for Neutral Stochastic Delay Markov Networks via Single Pinning Impulsive Strategy. *Chen, H., +, TSMC Dec. 2020 5406-5419*
- The Specified Finite-Time Distributed Observers-Based Velocity-Free Attitude Synchronization for Rigid Bodies on SO(3). *Peng, X.*, +, *TSMC April* 2020 1610-1621

## Synthetic aperture radar

Feasibility Study and Conceptual Design of Missile-Borne Synthetic Aperture Radar. Saeedi, J., TSMC March 2020 1122-1133

## Systems engineering

Toward an Improved Monitoring of Engineering Projects. Xue, R., +, TSMC Oct. 2020 3541-3553

# Т

## Taguchi methods

- A Knowledge-Based Cooperative Algorithm for Energy-Efficient Scheduling of Distributed Flow-Shop. *Wang, J.*, +, *TSMC May 2020 1805-1819*
- Intelligent Data-Driven Adaptive Method for Optimizing System Integration Scaling Factors for Touch Panel Lamination Machines. *Tsai, J.*, +, *TSMC April 2020 1300-1309*

## Target tracking

- A Bank of Decentralized Extended Information Filters for Target Tracking in Event-Triggered WSNs. *Yang, X.*, +, *TSMC Sept. 2020 3281-3289*
- Adaptive Quantized Estimation Fusion Using Strong Tracking Filtering and Variational Bayesian. Ge, Q., +, TSMC March 2020 899-910
- Image Dynamics-Based Visual Servoing for Quadrotors Tracking a Target With a Nonlinear Trajectory Observer. *Cao, Z.*, +, *TSMC Jan. 2020 376-384*
- Practical Regulation of Nonholonomic Systems Using Virtual Trajectories and LaSalle Invariance Principle. *Zhang, D.*, +, *TSMC May 2020 1833-1839*
- Target Following and Close Monitoring Using an Unmanned Surface Vehicle. *Kim, J., TSMC Nov. 2020 4233-4242*
- Target State and Markovian Jump Ionospheric Height Bias Estimation for OTHR Tracking Systems. *Geng, H., +, TSMC July 2020 2599-2611*

## Tariffs

- Coordination and Enhancement Schemes for Quick Response Mass Customization Supply Chains With Consumer Returns and Salvage Value Considerations. *Guo*, S., +, *TSMC Feb. 2020 673-685*
- Joint Energy, Maintenance, and Throughput Modeling for Sustainable Manufacturing Systems. *Sun, Z.,* +, *TSMC June 2020 2101-2112*
- Reverse Supply Chain Systems Coordination Across Multiple Links With Duopolistic Third Party Collectors. *Hosseini-Motlagh, S.*, +, *TSMC Dec.* 2020 4882-4893
- Value of Bargaining Contract in a Supply Chain System With Sustainability Investment: An Incentive Analysis. Shi, X., +, TSMC April 2020 1622-1634

# Task analysis

Energy-Efficient Scheduling of Real-Time Tasks in Reconfigurable Homogeneous Multicore Platforms. *Gammoudi, A.*, +, *TSMC Dec. 2020 5092-5105* 

# Team working

Markov Modeling and Analysis of Team Communication. Martinez Ayala, D.F., +, TSMC April 2020 1230-1241

# Telecommunication computing

- Automatic Visual Fingerprinting for Indoor Image-Based Localization Applications. Vedadi, F., +, TSMC Jan. 2020 305-317
- **Telecommunication control** 
  - Structural Sparsity in Networked Control Systems. *Florez, A.J.*, +, *TSMC Dec. 2020 5152-5161*

## Telecommunication network planning

Modeling and Analyzing Linear Wireless Sensor Networks With Backbone Support. Mo, Y., +, TSMC Oct. 2020 3912-3924

The Impacts of Node Orientation on Radio Propagation Models for Airborne-Deployed Sensor Networks in Large-Scale Tree Vegetation Terrains. *Olasupo, T.O., +, TSMC Jan. 2020 256-269* 

## Telecommunication network reliability

Modeling and Analyzing Linear Wireless Sensor Networks With Backbone Support. Mo, Y, +, TSMC Oct. 2020 3912-3924

## Telecommunication network topology

Distributed Voltage Regulation for Cyber-Physical Microgrids With Coupling Delays and Slow Switching Topologies. *Lai*, *J.*, +, *TSMC Jan. 2020 100-110* 

## Telecommunication scheduling

Performance Optimization of Reconfigurable Real-Time Wireless Sensor Networks. *Gasmi, M.*, +, *TSMC July 2020 2623-2637* 

## **Telecommunication security**

- Dynamic Pricing-Based Resilient Strategy Design for Cloud Control System Under Jamming Attack. Yuan, H., +, TSMC Jan. 2020 111-122
- Event-Based Tracking Control of Mobile Robot With Denial-of-Service Attacks. Tang, Y., +, TSMC Sept. 2020 3300-3310

## Telerobotics

Haptic Tele-Driving of Wheeled Mobile Robots Under Nonideal Wheel Rolling, Kinematic Control and Communication Time Delay. *Li, W.*, +, *TSMC Jan. 2020 336-347* 

## Temperature control

Modeling of Room Temperature Dynamics for Efficient Building Energy Management. *Rao*, *D.M.K.K.V.*, +, *TSMC Feb. 2020 717-725* 

# Terrorism

Development, Optimization, and Validation of Unintended Radiated Emissions Processing System for Threat Identification. *Friedel, J.E.*, +, *TSMC June 2020 2208-2219* 

## Text analysis

Integrating Multisourced Texts in Online Business Intelligence Systems. Cao, J., +, TSMC May 2020 1638-1648

# Thermal power stations

Disturbance Rejection of Nonlinear Boiler–Turbine Unit Using High-Order Sliding Mode Observer. Su, Z., +, TSMC Dec. 2020 5432-5443

## Three-term control

 $\mathcal{H}_{\infty}$  PID Control With Fading Measurements: The Output-Feedback Case. *Zhao, D.,* +, *TSMC June 2020 2170-2180* 

# Time optimal control

Invariant Adaptive Dynamic Programming for Discrete-Time Optimal Control. *Zhu, Y., +, TSMC Nov. 2020 3959-3971* 

## Time series

- Online Forecasting of Synchronous Time Series Based on Evolving Linear Models. Jahandari, S., +, TSMC May 2020 1865-1876
- Time-Variant Graph Classification. Wang, H., +, TSMC Aug. 2020 2883-2896

# Time-varying systems

- A Hybrid Proportional Impulsive Plus Integral Robust Control Algorithm for H∞ Stabilization. *Chen, H.*, +, *TSMC Dec. 2020 5211-5220*
- Adaptive Fault-Tolerant Control of Uncertain Switched Nonaffine Nonlinear Systems With Actuator Faults and Time Delays. *Wu, L.*, +, *TSMC Sept.* 2020 3470-3480
- Adaptive Fuzzy Fault-Tolerant Tracking Control of Uncertain Nonlinear Time-Varying Delay Systems. Zhai, D., +, TSMC May 2020 1840-1849
- An Event-Triggered Approach to Sliding Mode Control of Markovian Jump Lur'e Systems Under Hidden Mode Detections. *Song, J.*, +, *TSMC April* 2020 1514-1525
- An Industrial-Based Framework for Distributed Control of Heterogeneous Network Systems. *Wu, Y.*, +, *TSMC June 2020 2120-2128*

- Asynchronous Quasi-Consensus of Heterogeneous Multiagent Systems With Nonuniform Input Delays. Wang, Z., +, TSMC Aug. 2020 2815-2827
- Co-Design of Finite-Time Convergence and Noise Suppression: A Unified Neural Model for Time Varying Linear Equations With Robotic Applications. *Xiao, L., +, TSMC Dec. 2020 5233-5243*
- Compensating Delays and Noises in Motion Control of Autonomous Electric Vehicles by Using Deep Learning and Unscented Kalman Predictor. *Li*, *Y*, +, *TSMC Nov. 2020 4326-4338*
- Continuous and Discrete Zeroing Neural Network for Different-Level Dynamic Linear System With Robot Manipulator Control. *Li*, *J.*, +, *TSMC Nov.* 2020 4633-4642
- Data-Driven Guaranteed Cost Control Design via Reinforcement Learning for Linear Systems With Parameter Uncertainties. Wu, H., +, TSMC Nov. 2020 4151-4159
- Decentralized Adaptive NN Output-Feedback Fault Compensation Control of Nonlinear Switched Large-Scale Systems With Actuator Dead-Zones. *Ma*, *Z*., +, *TSMC Sept. 2020 3435-3447*
- Delay-Hybrid-Dependent Stability for Systems With Large Delays. Sun, X., +, TSMC July 2020 2752-2759
- Design of Resilient Reliable Dissipativity Control for Systems With Actuator Faults and Probabilistic Time-Delay Signals via Sampled-Data Approach. *Manivannan, R.*, +, *TSMC Nov. 2020 4243-4255*
- Design of Robust Sliding Mode Control With Adaptive Reaching Law. *Han*, H., +, *TSMC Nov. 2020 4415-4424*
- Dynamic Event-Triggered State Estimation for Discrete-Time Singularly Perturbed Systems With Distributed Time-Delays. *Ma*, *L.*, +, *TSMC Sept.* 2020 3258-3268
- Error State Convergence on Master–Slave Generalized Uncertain Neural Networks Using Robust Nonlinear  $H_{\infty}$  Control Theory. *Chen, H.*, +, *TSMC June 2020 2042-2055*
- Finite-Horizon  $H_{\infty}$  State Estimation for Time-Varying Neural Networks with Periodic Inner Coupling and Measurements Scheduling. Xu, Y, +, TSMC Jan. 2020 211-219
- Finite-Horizon Distributed State Estimation Under Randomly Switching Topologies and Redundant Channels. Dong, H., +, TSMC Aug. 2020 2938-2947
- Finite-Time Control of Continuous-Time Networked Dynamical Systems. Liu, H., +, TSMC Nov. 2020 4623-4632
- Finite-Time Time-Varying Formation Tracking for High-Order Multiagent Systems With Mismatched Disturbances. *Hua, Y.*, +, *TSMC Oct. 2020* 3795-3803
- Fuzzy Adaptive Quantized Fault-Tolerant Control of Strict-Feedback Nonlinear Systems With Mismatched External Disturbances. *Jing, Y.*, +, *TSMC Sept. 2020 3424-3434*
- Guaranteed Cost Control of Uncertain Networked Control Systems With a Hybrid Communication Scheme. *Zhang, J.*, +, *TSMC Sept. 2020 3126-3135*
- H<sub>∞</sub> Consensus for Multiagent-Based Supply Chain Systems Under Switching Topology and Uncertain Demands. Li, Q., +, TSMC Dec. 2020 4905-4918
- Lagrange Exponential Stability of Complex-Valued BAM Neural Networks With Time-Varying Delays. Zhang, Z., +, TSMC Aug. 2020 3072-3085
- Leader-Following Consensus for a Class of Nonlinear Strick-Feedback Multiagent Systems With State Time-Delays. *Chen, K.*, +, *TSMC July 2020* 2351-2361
- Modified Repetitive Control Design for Nonlinear Systems With Time Delay Based on T–S Fuzzy Model. Sakthivel, R., +, TSMC Feb. 2020 646-655
- Multiple Lagrange Stability Under Perturbation for Recurrent Neural Networks With Time-Varying Delays. *Zhang, F.*, +, *TSMC June 2020 2029-*2041
- Necessary and Sufficient Conditions for Leader-Following Bipartite Consensus With Measurement Noise. Ma, C., +, TSMC May 2020 1976-1981
- New Discrete-Time Models of Zeroing Neural Network Solving Systems of Time-Variant Linear and Nonlinear Inequalities. *Shi*, *Y*., +, *TSMC Feb*. 2020 565-576
- Observer-Based Consensus of Nonlinear Multiagent Systems With Relative State Estimate Constraints. Chu, H., +, TSMC July 2020 2456-2465

- Optimal Estimation for Discrete-Time Linear System with Communication Constraints and Measurement Quantization. *Ren, H.*, +, *TSMC May 2020* 1932-1942
- Parameters Variation-Based Synchronization on Derivative Coupled Lur'e Networks. *Tang, Z.*, +, *TSMC Dec. 2020 5395-5405*
- Performance Improvement of Consensus Tracking for Linear Multiagent Systems With Input Saturation: A Gain Scheduled Approach. *Chu, H.*, +, *TSMC March 2020 734-746*
- Perimeter Control of Multiregion Urban Traffic Networks With Time-Varying Delays. Wan, Y, +, TSMC Aug. 2020 2795-2803
- Practically Finite-Time Control for Nonlinear Systems With Mismatching Conditions and Application to a Robot System. *Min, H., +, TSMC Feb.* 2020 480-489
- Quantized Control for Networked Switched Systems With a More General Switching Rule. *Li*, *J.*, +, *TSMC May 2020 1909-1917*
- Random Gradient-Free Optimization for Multiagent Systems With Communication Noises Under a Time-Varying Weight Balanced Digraph. Wang, D., +, TSMC Jan. 2020 281-289
- Recovering Network Structures With Time-Varying Nodal Parameters. Wang, X., +, TSMC July 2020 2588-2598
- Reliable Leader-to-Follower Formation Control of Multiagent Systems Under Communication Quantization and Attacks. *Huang, X., +, TSMC Jan. 2020 89-99*
- Resilient Asynchronous H<sub>∞</sub> Control for Discrete-Time Markov Jump Singularly Perturbed Systems Based on Hidden Markov Model. *Li*, *F*, +, *TSMC Aug.* 2020 2860-2869
- Resilient Nonlinear Control for Attacked Cyber-Physical Systems. *Pang, Y.*, +, *TSMC June 2020 2129-2138*
- Robust *H*<sub>∞</sub> Guaranteed Cost Time-Varying Formation Tracking for High-Order Multiagent Systems With Time-Varying Delays. *Yu, J.*, +, *TSMC April* 2020 1465-1475
- Robustness Analysis of a Power-Type Varying-Parameter Recurrent Neural Network for Solving Time-Varying QM and QP Problems and Applications. *Zhang, Z.*, +, *TSMC Dec. 2020 5106-5118*
- Sampled-Data Consensus for Multiagent Systems With Time Delays and Packet Losses. Xing, M., +, TSMC Jan. 2020 203-210
- Sampled-Data Synchronization of Network Systems in Industrial Manufacture. *Wu, Y., +, TSMC Sept. 2020 3210-3219*
- Simultaneous Input and State Estimation for Integrated Motor-Transmission Systems in a Controller Area Network Environment via an Adaptive Unscented Kalman Filter. *Jiang, K.*, +, *TSMC April 2020 1570-1579*
- Stability Analysis of Covariance Intersection-Based Kalman Consensus Filtering for Time-Varying Systems. Wei, G., +, TSMC Nov. 2020 4611-4622
- Stability Analysis of T–S Fuzzy Control System With Sampled-Dropouts Based on Time-Varying Lyapunov Function Method. *Wang, Z.*, +, *TSMC July 2020 2566-2577*
- Stability and *l*<sub>2</sub> -Gain Analysis of Discrete-Time Switched Systems with Mode-Dependent Average Dwell Time. *Liu, L., +, TSMC June 2020 2305-2314*
- Stability and Robust Stability of Stochastic Reaction–Diffusion Neural Networks With Infinite Discrete and Distributed Delays. *Sheng, Y.*, +, *TSMC May 2020 1721-1732*
- Stability, I<sub>2</sub>-Gain Analysis, and Parity Space-Based Fault Detection for Discrete-Time Switched Systems Under Dwell-Time Switching. Sun, T., +, TSMC Sept. 2020 3358-3368
- The Specified Finite-Time Distributed Observers-Based Velocity-Free Attitude Synchronization for Rigid Bodies on SO(3). *Peng, X.*, +, *TSMC April* 2020 1610-1621

#### Topology

- A Humanoid Robot Learns to Recover Perturbation During Swinging Motion. Tran, D.H., +, TSMC Oct. 2020 3701-3712
- Distributed Consensus of Linear Multiagent Systems: Laplacian Spectra-Based Method. Chen, Y., +, TSMC Feb. 2020 700-706
- Necessary and Sufficient Conditions for Leader-Following Bipartite Consensus With Measurement Noise. Ma, C., +, TSMC May 2020 1976-1981

- Performance Improvement of Consensus Tracking for Linear Multiagent Systems With Input Saturation: A Gain Scheduled Approach. *Chu, H.*, +, *TSMC March 2020 734-746*
- Pinning a Complex Network to Follow a Target System With Predesigned Control Inputs. *Wen, G., +, TSMC June 2020 2293-2304*

## Torque control

Multirobot Object Transport via Robust Caging. Wan, W., +, TSMC Jan. 2020 270-280

# Tracking

- Adaptive Fuzzy Fault-Tolerant Tracking Control of Uncertain Nonlinear Time-Varying Delay Systems. Zhai, D., +, TSMC May 2020 1840-1849
- Dissipative Fuzzy Tracking Control for Nonlinear Networked Systems With Quantization. Li, Z., +, TSMC Dec. 2020 5130-5141
- Distributed  $H_{\infty}$  Optimal Tracking Control for Strict-Feedback Nonlinear Large-Scale Systems With Disturbances and Saturating Actuators. *Tan, L.N., TSMC Nov. 2020 4719-4731*
- Event-Based Distributed Tracking Control for Second-Order Multiagent Systems With Switching Networks. *Duan, P., +, TSMC Sept. 2020 3220-3230*
- Event-Based Tracking Control of Mobile Robot With Denial-of-Service Attacks. Tang, Y., +, TSMC Sept. 2020 3300-3310
- Motion Tracking Control Design for a Class of Nonholonomic Mobile Robot Systems. Fu, J., +, TSMC June 2020 2150-2156
- Practical Regulation of Nonholonomic Systems Using Virtual Trajectories and LaSalle Invariance Principle. Zhang, D., +, TSMC May 2020 1833-1839
- Prescribed Performance Tracking Control of a Class of Uncertain Pure-Feedback Nonlinear Systems With Input Saturation. *Yang, Y.*, +, *TSMC May* 2020 1733-1745
- Robust Adaptive Fuzzy Tracking Control for Uncertain MIMO Nonlinear Nonminimum Phase System. Hu, X., +, TSMC June 2020 2017-2028

#### **Tracking filters**

Adaptive Quantized Estimation Fusion Using Strong Tracking Filtering and Variational Bayesian. Ge, Q., +, TSMC March 2020 899-910

#### **Traffic control**

A Switching-Based Adaptive Dynamic Programming Method to Optimal Traffic Signaling. *Liu*, *D.*, +, *TSMC Nov. 2020 4160-4170* 

# Traffic engineering computing

Unifying Analytical Methods With Numerical Methods for Traffic System Modeling and Control. *Zhang, Y.*, +, *TSMC June 2020 2068-2082* 

## Trajectory control

A Theoretical Framework for Stability Regions for Standing Balance of Humanoids Based on Their LIPM Treatment. *Kim, J.H.*, +, *TSMC Nov.* 2020 4569-4586

Robust Tube-Based Model Predictive Control for Lane Change Maneuver of Tractor-Trailer Vehicles Based on a Polynomial Trajectory. Yue, M., +, TSMC Dec. 2020 5180-5188

## Transaction processing

- Improving Bitcoin Ownership Identification Using Transaction Patterns Analysis. Chang, T., +, TSMC Jan. 2020 9-20
- Supervisory Control of Blockchain Networks. Seow, K.T., TSMC Jan. 2020 159-171

## **Transfer functions**

Estimation for a Class of Parameter-Controlled Tunnel Diode Circuits. Chang, X., +, TSMC Nov. 2020 4697-4707

## **Transient response**

Adaptive Stabilization of Discrete-Time Nonminimum Phase Systems. *Que*, *H.*, +, *TSMC Aug*. 2020 2828-2833

## Transport protocols

System Reliability Assessment of a Fast Retransmit Through *k* Separate Minimal Paths Under the Latency. *Huang, C., +, TSMC April 2020 1395-1405* 

# Transportation

Avoiding Critical Members in a Team by Redundant Assignment. Zhu, H., TSMC July 2020 2729-2740

Dual-Objective Optimization for Lane Reservation With Residual Capacity and Budget Constraints. Wu, P., +, TSMC June 2020 2187-2197 Optimal Pricing Decisions of Competing Air-Cargo-Carrier Systems— Impacts of Risk Aversion, Demand, and Cost Uncertainties. *Wen, X.*, +, *TSMC Dec. 2020 4933-4947* 

## Travel industry

Robust Aircraft Maintenance Routing Problem Using a Turn-Around Time Reduction Approach. *Eltoukhy, A.E.E.*, +, *TSMC Dec. 2020 4919-4932* 

# Traveling salesman problems

A Triangulation-Based Coverage Path Planning. An, V., +, TSMC June 2020 2157-2169

## Trees (mathematics)

- Analysis of Unbounded Petri Net With Lean Reachability Trees. Li, J., +, TSMC June 2020 2007-2016
- Deep Reinforced Learning Tree for Spatiotemporal Monitoring With Mobile Robotic Wireless Sensor Networks. *Chen, J.*, +, *TSMC Nov. 2020 4197-*4211
- Exponential Finite-Time Consensus of Fractional-Order Multiagent Systems. Liu, H., +, TSMC April 2020 1549-1558
- Leader-Following Consensus for a Class of Nonlinear Strick-Feedback Multiagent Systems With State Time-Delays. *Chen, K.*, +, *TSMC July 2020* 2351-2361
- Maximum *a Posteriori* Estimation for Information Source Detection. *Chang*, *B.*, +, *TSMC June 2020 2242-2256*

Necessary and Sufficient Conditions for Leader-Following Bipartite Consensus With Measurement Noise. *Ma*, *C*., +, *TSMC May 2020 1976-1981* 

Pinning a Complex Network to Follow a Target System With Predesigned Control Inputs. *Wen, G., +, TSMC June 2020 2293-2304* 

# Tunnel diodes

Estimation for a Class of Parameter-Controlled Tunnel Diode Circuits. Chang, X., +, TSMC Nov. 2020 4697-4707

### Turbines

- Disturbance Rejection of Nonlinear Boiler–Turbine Unit Using High-Order Sliding Mode Observer. Su, Z., +, TSMC Dec. 2020 5432-5443
- Modeling and Interpretation of Tidal Turbine Vibration Through Weighted Least Squares Regression. *Galloway, G.S.*, +, *TSMC April 2020 1252-1259*

## U

## Ubiquitous computing

- Context-Aware Decision Support for Anti-Submarine Warfare Mission Planning Within a Dynamic Environment. *Mishra, M.*, +, *TSMC Jan. 2020* 318-335
- Context-Aware Dynamic Asset Allocation for Maritime Interdiction Operations. Sidoti, D., +, TSMC March 2020 1055-1073
- Context-Aware Reliable Crowdsourcing in Social Networks. Jiang, J., +, TSMC Feb. 2020 617-632
- Context-Aware Service Provisioning via Agentized and Reconfigurable Multimodel Cooperation for Real-Life IoT-Enabled Smart Home Systems. *Lu, C., TSMC Aug. 2020 2914-2925*
- Toward Hand-Dominated Activity Recognition Systems With Wristband-Interaction Behavior Analysis. *Shen, C.,* +, *TSMC July 2020 2501-2511*

#### Ultra wideband communication

Automatic Visual Fingerprinting for Indoor Image-Based Localization Applications. *Vedadi, F., +, TSMC Jan. 2020 305-317* 

### Uncertain systems

- A Hybrid Proportional Impulsive Plus Integral Robust Control Algorithm for H∞ Stabilization. *Chen, H.,* +, *TSMC Dec. 2020 5211-5220*
- Adaptive Backstepping Hybrid Fuzzy Sliding Mode Control for Uncertain Fractional-Order Nonlinear Systems Based on Finite-Time Scheme. *Song, S.*, +, *TSMC April 2020 1559-1569*
- Adaptive Consensus of Multiagent Systems With Unknown High-Frequency Gain Signs Under Directed Graphs. *Wang, Q.*, +, *TSMC June 2020 2181-2186*
- Adaptive Critic Learning and Experience Replay for Decentralized Event-Triggered Control of Nonlinear Interconnected Systems. *Yang, X.*, +, *TSMC Nov. 2020 4043-4055*

- Adaptive Dynamic Programming for Decentralized Stabilization of Uncertain Nonlinear Large-Scale Systems With Mismatched Interconnections. *Yang, X., +, TSMC Aug. 2020 2870-2882*
- Adaptive Dynamics Programming for  $H_{\infty}$  Control of Continuous-Time Unknown Nonlinear Systems via Generalized Fuzzy Hyperbolic Models. Su, H., +, TSMC Nov. 2020 3996-4008
- Adaptive Fault-Tolerant Compensation Control and Its Application to Nonlinear Suspension Systems. Pan, H., +, TSMC May 2020 1766-1776
- Adaptive Fault-Tolerant Compensation Control for T–S Fuzzy Systems With Mismatched Parameter Uncertainties. *Yan, J.*, +, *TSMC Sept. 2020 3412-3423*
- Adaptive Fault-Tolerant Control of Uncertain Switched Nonaffine Nonlinear Systems With Actuator Faults and Time Delays. *Wu, L.*, +, *TSMC Sept.* 2020 3470-3480
- Adaptive Fuzzy Fault-Tolerant Tracking Control of Uncertain Nonlinear Time-Varying Delay Systems. Zhai, D., +, TSMC May 2020 1840-1849
- Adaptive Fuzzy Tracking Control for a Class of Nonstrict-Feedback Stochastic Nonlinear Systems With Actuator Faults. Su, H., +, TSMC Sept. 2020 3456-3469
- Adaptive Fuzzy Tracking Control of Nonlinear Switched Stochastic Systems With Prescribed Performance and Unknown Control Directions. *Liu*, Y, +, *TSMC Feb. 2020 590-599*
- Adaptive Partial Reinforcement Learning Neural Network-Based Tracking Control for Wheeled Mobile Robotic Systems. *Ding, L.*, +, *TSMC July* 2020 2512-2523
- Adaptive Robust Nonlinear Control Design for Course Tracking of Ships Subject to External Disturbances and Input Saturation. *Du, J.*, +, *TSMC Jan. 2020 193-202*
- ADP-Based Robust Tracking Control for a Class of Nonlinear Systems With Unmatched Uncertainties. *Mu, C.*, +, *TSMC Nov. 2020 4056-4067*
- An Adaptive Neural Network Controller for Active Suspension Systems With Hydraulic Actuator. *Liu*, *Y*., +, *TSMC Dec. 2020 5351-5360*
- An Approach to Design Robust Tracking Controllers for Nonlinear Uncertain Systems. *Celentano, L., +, TSMC Aug. 2020 3010-3023*
- An Event-Triggered Approach to Sliding Mode Control of Markovian Jump Lur'e Systems Under Hidden Mode Detections. *Song, J.*, +, *TSMC April* 2020 1514-1525
- Asynchronous Quasi-Consensus of Heterogeneous Multiagent Systems With Nonuniform Input Delays. Wang, Z., +, TSMC Aug. 2020 2815-2827
- Barrier Lyapunov Functions-Based Adaptive Fault Tolerant Control for Flexible Hypersonic Flight Vehicles With Full State Constraints. *Yuan, Y.*, +, *TSMC Sept. 2020 3391-3400*
- Consensus Tracking Control for Distributed Nonlinear Multiagent Systems via Adaptive Neural Backstepping Approach. *Shang, Y.*, +, *TSMC July 2020 2436-2444*
- Contraction Mapping-Based Robust Convergence of Iterative Learning Control With Uncertain, Locally Lipschitz Nonlinearity. *Meng, D.*, +, *TSMC Feb. 2020 442-454*
- Data-Driven Guaranteed Cost Control Design via Reinforcement Learning for Linear Systems With Parameter Uncertainties. Wu, H., +, TSMC Nov. 2020 4151-4159
- Decentralized Adaptive NN Output-Feedback Fault Compensation Control of Nonlinear Switched Large-Scale Systems With Actuator Dead-Zones. *Ma*, *Z*., +, *TSMC Sept. 2020 3435-3447*
- Dissipative Fuzzy Tracking Control for Nonlinear Networked Systems With Quantization. Li, Z., +, TSMC Dec. 2020 5130-5141
- Distributed Adaptive FBC of Uncertain Nonaffine Multiagent Systems Preceded by Unknown Input Nonlinearities With Unknown Gain Sign. Shahnazi, R., +, TSMC Aug. 2020 3036-3046
- Distributed Adaptive Output Feedback Leader-Following Consensus Control for Nonlinear Multiagent Systems. *Hua, C., +, TSMC Nov. 2020 4309-4317*
- Distributed Fault Detection and Isolation for Multiagent Systems: An Interval Observer Approach. Zhang, Z., +, TSMC June 2020 2220-2230
- Distributed Fault Estimation for a Class of Nonlinear Multiagent Systems. Liu, X., +, TSMC Sept. 2020 3382-3390

- Disturbance Rejection of Nonlinear Boiler–Turbine Unit Using High-Order Sliding Mode Observer. Su, Z., +, TSMC Dec. 2020 5432-5443
- Dynamic Output Feedback Asynchronous Control of Networked Markovian Jump Systems. *Liu*, X., +, *TSMC July 2020 2705-2715*
- Error State Convergence on Master–Slave Generalized Uncertain Neural Networks Using Robust Nonlinear  $H_{\infty}$  Control Theory. *Chen, H.*, +, *TSMC June 2020 2042-2055*
- Error-Driven Nonlinear Feedback Design for Fuzzy Adaptive Dynamic Surface Control of Nonlinear Systems With Prescribed Tracking Performance. *Dong, H.*, +, *TSMC March 2020 1013-1023*
- Estimation for a Class of Parameter-Controlled Tunnel Diode Circuits. *Chang, X.*, +, *TSMC Nov. 2020 4697-4707*
- Event-Driven Guaranteed Cost Control Design for Nonlinear Systems With Actuator Faults via Reinforcement Learning Algorithm. *Zhang, H.*, +, *TSMC Nov. 2020 4135-4150*
- Event-Triggered Adaptive Output Regulation for a Class of Nonlinear Systems With Unknown Control Direction. *Lei, Y.*, +, *TSMC Sept. 2020 3181-3188*
- Event-Triggered and Self-Triggered H<sub>∞</sub> Control of Uncertain Switched Linear Systems. *Qi*, *Y*, +, *TSMC April 2020 1442-1454*
- Event-Triggered Integral Sliding-Mode Control for Nonlinear Constrained-Input Systems With Disturbances via Adaptive Dynamic Programming. Yang, D., +, TSMC Nov. 2020 4086-4096
- Event-Triggered Robust Stabilization of Nonlinear Input-Constrained Systems Using Single Network Adaptive Critic Designs. *Yang, X.*, +, *TSMC Sept. 2020 3145-3157*
- Fault Detection Approaches for Fuzzy Large-Scale Systems With Unknown Membership Functions. *Wang, H., +, TSMC Sept. 2020 3333-3343*
- Finite-Time Adaptive Fuzzy Decentralized Control for Nonstrict-Feedback Nonlinear Systems With Output-Constraint. *Li, K.*, +, *TSMC Dec. 2020* 5271-5284
- Fixed-Time Sliding Mode Disturbance Observer-Based Nonsmooth Backstepping Control for Hypersonic Vehicles. Sun, J., +, TSMC Nov. 2020 4377-4386
- Fuzzy Adaptive Output Feedback Control for MIMO Switched Nontriangular Structure Nonlinear Systems With Unknown Control Directions. *Huang, L.*, +, *TSMC Feb. 2020 550-564*
- Fuzzy Adaptive Quantized Fault-Tolerant Control of Strict-Feedback Nonlinear Systems With Mismatched External Disturbances. *Jing, Y.*, +, *TSMC Sept. 2020 3424-3434*
- Guaranteed Cost Control of Uncertain Networked Control Systems With a Hybrid Communication Scheme. *Zhang, J.*, +, *TSMC Sept. 2020 3126-3135*
- Iterative Identification of Hammerstein Parameter Varying Systems With Parameter Uncertainties Based on the Variational Bayesian Approach. *Ma*, *J.*, +, *TSMC March 2020 1035-1045*
- Leader-Following Consensus for a Class of Nonlinear Strick-Feedback Multiagent Systems With State Time-Delays. *Chen, K.*, +, *TSMC July 2020* 2351-2361
- Modified Repetitive Control Design for Nonlinear Systems With Time Delay Based on T–S Fuzzy Model. Sakthivel, R., +, TSMC Feb. 2020 646-655
- Neural Network-Based Adaptive Control for Pure-Feedback Stochastic Nonlinear Systems With Time-Varying Delays and Dead-Zone Input. *Li*, *Z.*, +, *TSMC Dec. 2020 5317-5329*
- Nonfragile *l*<sub>2</sub> –*l*<sub>∞</sub> Fault Estimation for Markovian Jump 2-D Systems With Specified Power Bounds. *Luo*, *Y*., +, *TSMC May 2020 1964-1975*
- Nonsmooth Decentralized Stabilization for Interconnected Systems Subject to Strongly Coupled Uncertain Interactions. *Zhang, C.*, +, *TSMC July 2020* 2685-2692
- Observer-Based Adaptive Finite-Time Quantized Tracking Control of Nonstrict-Feedback Nonlinear Systems With Asymmetric Actuator Saturation. *Yu, Z.*, +, *TSMC Nov. 2020 4545-4556*
- Partial State Constraints-Based Control for Nonlinear Systems With Backlash-Like Hysteresis. *Liu*, *L*., +, *TSMC Aug*. 2020 3100-3104
- Passivity-Based Robust Sampled-Data Control for Markovian Jump Systems. Chen, G., +, TSMC July 2020 2671-2684

- Practically Finite-Time Control for Nonlinear Systems With Mismatching Conditions and Application to a Robot System. *Min, H.*, +, *TSMC Feb.* 2020 480-489
- Prescribed Performance Controller Design for DC Converter System With Constant Power Loads in DC Microgrid. *Xu*, *X*., +, *TSMC Nov. 2020 4339-4348*
- Prescribed Performance Tracking Control of a Class of Uncertain Pure-Feedback Nonlinear Systems With Input Saturation. *Yang, Y.*, +, *TSMC May* 2020 1733-1745
- Realization of Exact Tracking Control for Nonlinear Systems via a Nonrecursive Dynamic Design. Zhang, C., +, TSMC Feb. 2020 577-589
- Reliable Leader-to-Follower Formation Control of Multiagent Systems Under Communication Quantization and Attacks. *Huang, X.*, +, *TSMC Jan. 2020 89-99*
- Resilient Asynchronous H<sub>∞</sub> Control for Discrete-Time Markov Jump Singularly Perturbed Systems Based on Hidden Markov Model. *Li*, *F.*, +, *TSMC Aug.* 2020 2860-2869
- Robust Adaptive Fault-Tolerant Tracking Control for Uncertain Linear Systems With Actuator Failures Based on the Closed-Loop Reference Model. *Xiao, S.*, +, *TSMC Sept. 2020 3448-3455*
- Robust Adaptive Fuzzy Tracking Control for Uncertain MIMO Nonlinear Nonminimum Phase System. Hu, X., +, TSMC June 2020 2017-2028
- Robust Bipartite Consensus and Tracking Control of High-Order Multiagent Systems With Matching Uncertainties and Antagonistic Interactions. *Liu*, *M.*, +, *TSMC July 2020 2541-2550*
- Robust Distributed  $H_{\infty}$  State Estimation for Stochastic Periodic Systems Over Constraint Sensor Networks. *Li*, *J.*, +, *TSMC Nov. 2020 4396-4407*
- Robust Finite-Horizon Filtering for 2-D Systems With Randomly Varying Sensor Delays. *Wang, F., +, TSMC Jan. 2020 220-232*
- Robust Optimal Control Scheme for Unknown Constrained-Input Nonlinear Systems via a Plug-n-Play Event-Sampled Critic-Only Algorithm. *Zhang*, *H.*, +, *TSMC Sept. 2020 3169-3180*
- Sampled-Data Synchronization of Network Systems in Industrial Manufacture. *Wu*, *Y*, +, *TSMC Sept. 2020 3210-3219*
- Stabilization of Canonical Systems via Adaptive Chattering Free Sliding Modes With No Singularity Problems. *Aghababa, M.P., TSMC May 2020* 1696-1703
- Switching Adaptive Controller for the Nonlinear Systems With Uncertainties From Unknown Powers. Wang, M., +, TSMC July 2020 2375-2385
- The Design of Quasi-Optimal Higher Order Sliding Mode Control via Disturbance Observer and Switching-Gain Adaptation. *Li*, *P*., +, *TSMC Nov.* 2020 4817-4827

## Uncertainty handling

- Critique of Recent Uncertainty Measures Developed Under the Evidence Theory and Belief Intervals. *Abellan, J.*, +, *TSMC March 2020 1186-1192*
- Integrating Community Context Information Into a Reliably Weighted Collaborative Filtering System Using Soft Ratings. *Nguyen, V.*, +, *TSMC April* 2020 1318-1330
- Interpoint Similarity-Based Uncertainty Measure for Robust Learning. Wang, Y., +, TSMC Dec. 2020 5386-5394

## Underwater vehicles

Context-Aware Decision Support for Anti-Submarine Warfare Mission Planning Within a Dynamic Environment. *Mishra, M.*, +, *TSMC Jan. 2020* 318-335

# **Unified Modeling Language**

An Extended Object Constraint Language for Adaptive Discrete Event Systems With Application to Reconfigurable Wireless Sensor Networks. *Grichi*, H., +, TSMC Oct. 2020 3562-3576

# Unsupervised learning

- Clustering Based on Supervised Learning of Exemplar Discriminative Information. Duan, L., +, TSMC Dec. 2020 5255-5270
- Multidomain Features-Based GA Optimized Artificial Immune System for Bearing Fault Detection. *Abid*, *A.*, +, *TSMC Jan. 2020 348-359*

# Utility theory

Maximin<sub>h</sub> Stability in the Graph Model for Conflict Resolution for Bilateral Conflicts. *Rego, L.C.,* +, *TSMC Oct.* 2020 3760-3769

# V

## Variable structure systems

- Adaptive Backstepping Hybrid Fuzzy Sliding Mode Control for Uncertain Fractional-Order Nonlinear Systems Based on Finite-Time Scheme. *Song*, *S.*, +, *TSMC April 2020 1559-1569*
- An Event-Triggered Approach to Sliding Mode Control of Markovian Jump Lur'e Systems Under Hidden Mode Detections. *Song, J.*, +, *TSMC April* 2020 1514-1525
- Design of Robust Sliding Mode Control With Adaptive Reaching Law. Han, H., +, TSMC Nov. 2020 4415-4424
- Disturbance Rejection of Nonlinear Boiler–Turbine Unit Using High-Order Sliding Mode Observer. Su, Z., +, TSMC Dec. 2020 5432-5443
- Event-Driven Guaranteed Cost Control Design for Nonlinear Systems With Actuator Faults via Reinforcement Learning Algorithm. *Zhang, H.*, +, *TSMC Nov. 2020 4135-4150*
- Event-Triggered Integral Sliding-Mode Control for Nonlinear Constrained-Input Systems With Disturbances via Adaptive Dynamic Programming. *Yang, D.*, +, *TSMC Nov. 2020 4086-4096*
- Event-Triggered Sliding Mode Control for Attitude Stabilization of a Rigid Spacecraft. *Liu*, *Y*, +, *TSMC Sept. 2020 3290-3299*
- Exponential Finite-Time Consensus of Fractional-Order Multiagent Systems. Liu, H., +, TSMC April 2020 1549-1558
- Fixed-Time Sliding Mode Disturbance Observer-Based Nonsmooth Backstepping Control for Hypersonic Vehicles. *Sun, J.*, +, *TSMC Nov. 2020* 4377-4386
- Observer-Based Adaptive Sliding Mode Control for T–S Fuzzy Singular Systems. Sun, X., +, TSMC Nov. 2020 4438-4446
- Observer-Based Integral Sliding Mode Tracking Control for a Pneumatic Cylinder With Varying Loads. *Zhao, L.*, +, *TSMC July 2020 2650-2658*
- Perimeter Control of Multiregion Urban Traffic Networks With Time-Varying Delays. *Wan, Y.*, +, *TSMC Aug. 2020 2795-2803*
- Sliding-Mode Control for Stabilizing High-Order Stochastic Systems: Application to One-Degree-of-Freedom Aerial Device. *Vargas, A.N.*, +, *TSMC Nov. 2020 4318-4325*
- Stabilization of Canonical Systems via Adaptive Chattering Free Sliding Modes With No Singularity Problems. Aghababa, M.P., TSMC May 2020 1696-1703
- The Design of Quasi-Optimal Higher Order Sliding Mode Control via Disturbance Observer and Switching-Gain Adaptation. *Li*, *P.*, +, *TSMC Nov.* 2020 4817-4827

# Variational techniques

A Novel Semi-Supervised Sparse Bayesian Regression Based on Variational Inference for Industrial Datasets With Incomplete Outputs. *Zhao, J.*, +, *TSMC Nov. 2020 4773-4786* 

# Vegetation

The Impacts of Node Orientation on Radio Propagation Models for Airborne-Deployed Sensor Networks in Large-Scale Tree Vegetation Terrains. *Olasupo, T.O.,* +, *TSMC Jan. 2020 256-269* 

## Vegetation mapping

The Impacts of Node Orientation on Radio Propagation Models for Airborne-Deployed Sensor Networks in Large-Scale Tree Vegetation Terrains. *Olasupo, T.O.*, +, *TSMC Jan. 2020 256-269* 

## Vehicle dynamics

- A Reinforcement Learning Approach to Autonomous Decision Making of Intelligent Vehicles on Highways. Xu, X., +, TSMC Oct. 2020 3884-3897
- Adaptive Robust Nonlinear Control Design for Course Tracking of Ships Subject to External Disturbances and Input Saturation. *Du*, *J.*, +, *TSMC Jan.* 2020 193-202
- An Adaptive Neural Network Controller for Active Suspension Systems With Hydraulic Actuator. *Liu*, *Y*., +, *TSMC Dec. 2020 5351-5360*
- Delta Operator-Based Model Predictive Control With Fault Compensation for Steer-by-Wire Systems. *Huang, C.*, +, *TSMC June 2020 2257-2272*
- Robust Tube-Based Model Predictive Control for Lane Change Maneuver of Tractor-Trailer Vehicles Based on a Polynomial Trajectory. Yue, M., +, TSMC Dec. 2020 5180-5188

TS Fuzzy Model-Based Controller Design for a Class of Nonlinear Systems Including Nonsmooth Functions. *Vafamand, N.*, +, *TSMC Jan. 2020 233-*244

#### Vehicle routing

A Hybrid Multiobjective Memetic Algorithm for Multiobjective Periodic Vehicle Routing Problem With Time Windows. *Wang, J.*, +, *TSMC Nov.* 2020 4732-4745

An Effective Local Search Algorithm for the Multidepot Cumulative Capacitated Vehicle Routing Problem. Wang, X., +, TSMC Dec. 2020 4948-4958

## Vehicle-to-grid

Secure and Efficient Vehicle-to-Grid Energy Trading in Cyber Physical Systems: Integration of Blockchain and Edge Computing. *Zhou, Z.*, +, *TSMC Jan. 2020 43-57* 

#### Velocity control

Design and Analysis of a Novel Finite-Time Convergent and Noise-Tolerant Recurrent Neural Network for Time-Variant Matrix Inversion. *Li, W., TSMC Nov. 2020 4362-4376* 

### Vibration control

Active Control of Uncertain Seat Suspension System Based on a State and Disturbance Observer. *Lathkar, M.S.*, +, *TSMC March 2020 840-850* 

Event-Triggered  $H_{\infty}$  State Estimation of 2-DOF Quarter-Car Suspension Systems With Nonhomogeneous Markov Switching. *Yan, H.,* +, *TSMC Sept.* 2020 3320-3329

### Vibrational signal processing

Multidomain Features-Based GA Optimized Artificial Immune System for Bearing Fault Detection. *Abid*, *A.*, +, *TSMC Jan. 2020 348-359* 

## Vibrations

Low-Cost, Efficient Output-Only Infrastructure Damage Detection With Wireless Sensor Networks. *Contreras, W.*, +, *TSMC March 2020 1003-1012* 

Modeling and Interpretation of Tidal Turbine Vibration Through Weighted Least Squares Regression. *Galloway, G.S.*, +, *TSMC April 2020 1252-1259* Robust Adaptive Control of an Offshore Ocean Thermal Energy Conversion

System. He, X., +, TSMC Dec. 2020 5285-5295

# Video signal processing

A UAV Video Dataset for Mosaicking and Change Detection From Low-Altitude Flights. Avola, D., +, TSMC June 2020 2139-2149

#### Video surveillance

- A Subspace Learning Approach to Multishot Person Reidentification. Zheng, A., +, TSMC Jan. 2020 149-158
- Indoor Crowd Density Estimation Through Mobile Smartphone Wi-Fi Probes. Tang, X., +, TSMC July 2020 2638-2649

### Virtual machines

Modeling and Analyzing Dynamic Fault-Tolerant Strategy for Deadline Constrained Task Scheduling in Cloud Computing. Fan, G., +, TSMC April 2020 1260-1274

#### Virtual reality

Visual Guidance for a Spatial Discrepancy Problem of in Encountered-Type Haptic Display. *Lee*, C., +, *TSMC April 2020 1384-1394* 

#### Visual servoing

Image Dynamics-Based Visual Servoing for Quadrotors Tracking a Target With a Nonlinear Trajectory Observer. Cao, Z., +, TSMC Jan. 2020 376-384

## VLSI

Robot Path Planning Using Analog Circuit Phase Delay. Garvey, S., +, TSMC Oct. 2020 3898-3911

#### Voltage control

Distributed Voltage Regulation for Cyber-Physical Microgrids With Coupling Delays and Slow Switching Topologies. *Lai*, *J.*, +, *TSMC Jan. 2020 100-110* 

#### W

## Water supply

Performability Evaluation of Water Distribution Systems During Maintenance Procedures. Carnevali, L., +, TSMC May 2020 1704-1720

## Wave power plants

Modeling and Interpretation of Tidal Turbine Vibration Through Weighted Least Squares Regression. Galloway, G.S., +, TSMC April 2020 1252-1259

### Wavelet transforms

Toward Hand-Dominated Activity Recognition Systems With Wristband-Interaction Behavior Analysis. *Shen, C.*, +, *TSMC July 2020 2501-2511* 

#### Weapons

Layered Behavior Modeling via Combining Descriptive and Prescriptive Approaches: A Case Study of Infantry Company Engagement. *Bae, J.W.*, +, *TSMC July 2020 2551-2565* 

#### Wear

A Belief Rule-Based Expert System for Fault Diagnosis of Marine Diesel Engines. Xu, X., +, TSMC Feb. 2020 656-672

## Weather forecasting

A Decision Support System for Wind Power Production. *Donida Labati, R.,* +, *TSMC Jan. 2020 290-304* 

#### Web services

Modeling and Evaluation of Service Composition in Commercial Multiclouds Using Timed Colored Petri Nets. *Entezari-Maleki, R., +, TSMC March 2020 947-961* 

QoS-Aware Service Composition in Cloud Manufacturing: A Gale–Shapley Algorithm-Based Approach. Li, F., +, TSMC July 2020 2386-2397

#### Welding equipment

Stream-of-Variation (SOV) Theory Applied in Geometric Error Modeling for Six-Axis Motion Platform. *Tang, H.*, +, *TSMC March 2020 762-770* 

# Wheels

- Delta Operator-Based Model Predictive Control With Fault Compensation for Steer-by-Wire Systems. *Huang*, C., +, *TSMC June 2020 2257-2272*
- Haptic Tele-Driving of Wheeled Mobile Robots Under Nonideal Wheel Rolling, Kinematic Control and Communication Time Delay. *Li, W.*, +, *TSMC Jan. 2020 336-347*

## Wildfires

A Distributed Control Framework of Multiple Unmanned Aerial Vehicles for Dynamic Wildfire Tracking. *Pham, H.X.*, +, *TSMC April 2020 1537-1548* 

Wind power plants

A Decision Support System for Wind Power Production. *Donida Labati, R.,* +, *TSMC Jan. 2020 290-304* 

### Wireless LAN

Indoor Crowd Density Estimation Through Mobile Smartphone Wi-Fi Probes. *Tang, X.*, +, *TSMC July 2020 2638-2649* 

#### Wireless sensor networks

- A Bank of Decentralized Extended Information Filters for Target Tracking in Event-Triggered WSNs. *Yang, X.*, +, *TSMC Sept. 2020 3281-3289*
- A Triangulation-Based Coverage Path Planning. An, V., +, TSMC June 2020 2157-2169
- An Extended Object Constraint Language for Adaptive Discrete Event Systems With Application to Reconfigurable Wireless Sensor Networks. *Grichi*, H., +, *TSMC Oct. 2020 3562-3576*
- Deep Reinforced Learning Tree for Spatiotemporal Monitoring With Mobile Robotic Wireless Sensor Networks. *Chen, J.*, +, *TSMC Nov. 2020 4197-4211*
- Distributed Continuous-Time Optimization With Scalable Adaptive Event-Based Mechanisms. *Wu, Z., +, TSMC Sept. 2020 3252-3257*
- Efficient Sensor Deployments for Spatio-Temporal Environmental Monitoring. Nguyen, L., +, TSMC Dec. 2020 5306-5316
- Event-Triggered Distributed Fusion Estimation of Networked Multisensor Systems With Limited Information. Yan, H., +, TSMC Dec. 2020 5330-5337
- Low-Cost, Efficient Output-Only Infrastructure Damage Detection With Wireless Sensor Networks. *Contreras, W.*, +, *TSMC March 2020 1003-1012*
- Modeling and Analyzing Linear Wireless Sensor Networks With Backbone Support. *Mo*, *Y*., +, *TSMC Oct. 2020 3912-3924*
- Performance Optimization of Reconfigurable Real-Time Wireless Sensor Networks. *Gasmi, M.*, +, *TSMC July 2020 2623-2637*
- The Impacts of Node Orientation on Radio Propagation Models for Airborne-Deployed Sensor Networks in Large-Scale Tree Vegetation Terrains. *Olasupo, T.O.*, +, *TSMC Jan. 2020 256-269*

# Wires

An Interventionalist-Behavior-Based Data Fusion Framework for Guidewire Tracking in Percutaneous Coronary Intervention. *Zhou, X.*, +, *TSMC Nov.* 2020 4836-4849

# Workflow management software

Measurement and Computation of Profile Similarity of Workflow Nets Based on Behavioral Relation Matrix. *Wang, M.*, +, *TSMC Oct. 2020 3628-3645* 

# Wounds

Z

# Zinc compounds

Optimal Setting and Control for Iron Removal Process Based on Adaptive Neural Network Soft-Sensor. *Xie, S.*, +, *TSMC July 2020 2408-2420* 

Surgical Wounds Assessment System for Self-Care. Chen, Y., +, TSMC Dec. 2020 5076-5091