2020 Index IEEE Transactions on Control Network Systems Vol. 7

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

A

Abbas, W., Shabbir, M., Yazicioglu, A.Y., and Akber, A., Tradeoff Between Controllability and Robustness in Diffusively Coupled Networks; TCNS Dec. 2020 1891-1902

Abdallah, M., Naghizadeh, P., Hota, A.R., Cason, T., Bagchi, S., and Sundaram, S., Behavioral and Game-Theoretic Security Investments in Interdependent Systems Modeled by Attack Graphs; TCNS Dec. 2020 1585-1596

Aguiar, A.P., see Alessandretti, A., TCNS June 2020 1002-1014

Aguilar, C.O., Strongly Uncontrollable Network Topologies; TCNS June 2020 878-886

Ahn, H., see Van Tran, Q., TCNS Dec. 2020 1654-1664

Ahn, H., see Kwon, S., TCNS Dec. 2020 1609-1620

Akber, A., see Abbas, W., TCNS Dec. 2020 1891-1902

Al-Rawashdeh, Y.M., see El-Ferik, S., TCNS June 2020 734-746

Alajaji, F., see McDonald, C., TCNS March 2020 446-457

Alam, S., see Cai, Q., TCNS March 2020 106-117

Alessandretti, A., and Aguiar, A.P., An Optimization-Based Cooperative Path-Following Framework for Multiple Robotic Vehicles; TCNS June 2020 1002-1014

Aliprantis, D., see Zhao, S., TCNS Sept. 2020 1441-1452

Alizadeh, M., see Rossi, F., TCNS March 2020 384-397

Amani, A.M., Chen, G., Jalili, M., Yu, X., and Stone, L., Distributed Rigidity Recovery in Distance-Based Formations Using Configuration Lattice; TCNS Sept. 2020 1547-1558

An, L., and Yang, G., Adaptive Secure State Estimation for Cyber-Physical Systems With Low Memory Cost; TCNS Dec. 2020 1621-1632

Angeli, D., see Manfredi, S., TCNS March 2020 372-383

Anglea, T., and Wang, Y., Decentralized Heading Control With Rate Constraints Using Pulse-Coupled Oscillators; TCNS Sept. 2020 1090-1102

Anitescu, M., see Shin, S., TCNS Sept. 2020 1225-1236

Aragues, R., Gonzalez, A., Lopez-Nicolas, G., and Sagues, C., Distributed Relative Localization Using the Multidimensional Weighted Centroid; TCNS Sept. 2020 1272-1282

Atkins, E., see Rastgoftar, H., TCNS June 2020 532-544

Attree, S., see Prakash, M., TCNS March 2020 85-95

Awan, A.U., and Zamani, M., From Dissipativity Theory to Compositional Abstractions of Interconnected Stochastic Hybrid Systems; TCNS March 2020 433-445

Ayan, O., see Klugel, M., TCNS Dec. 2020 1903-1915

В

Backhaus, S., see Park, S., TCNS Sept. 2020 1428-1440 Backhaus, S., see Deka, D., TCNS Sept. 2020 1391-1403 Bae, Y., see Kwon, S., TCNS Dec. 2020 1609-1620

Bagchi, S., see Abdallah, M., TCNS Dec. 2020 1585-1596

Baggio, G., see Menara, T., TCNS March 2020 302-314

Baldick, R., see Garcia, M., TCNS Sept. 2020 1500-1510

Bassett, D.S., see Menara, T., TCNS March 2020 302-314 Battistelli, G., see Roy, S., TCNS March 2020 187-188

Becker, C.O., Pequito, S., Pappas, G.J., and Preciado, V.M., Network Design for Controllability Metrics; TCNS Sept. 2020 1404-1415

Belur, M.N., see Moothedath, S., TCNS Sept. 2020 1164-1175

Bernstein, A., see Colombino, M., TCNS March 2020 422-432

Bhowmick, P., see Hu, J., TCNS March 2020 140-150

Bienstock, D., and Escobar, M., Stochastic Defense Against Complex Grid Attacks; TCNS June 2020 842-854

Blumsack, S., see Wu, D., TCNS June 2020 660-672

Boem, F., Gallo, A.J., Raimondo, D.M., and Parisini, T., Distributed Fault-Tolerant Control of Large-Scale Systems: An Active Fault Diagnosis Approach; TCNS March 2020 288-301

Bowman, S.L., Nowzari, C., and Pappas, G.J., Consensus of Multiagent Systems Via Asynchronous Cloud Communication; TCNS June 2020 627-637

Brown, P.N., and Marden, J.R., Can Taxes Improve Congestion on All Networks?; *TCNS Dec. 2020 1643-1653*

Bullo, F., see Jia, P., TCNS June 2020 899-911

Buss, M., see Li, X., TCNS June 2020 967-976

Buss, M., see Liu, F., TCNS Sept. 2020 1115-1126

 \mathbf{C}

Cai, Q., Alam, S., and Liu, J., On the Robustness of Complex Systems With Multipartitivity Structures Under Node Attacks; TCNS March 2020 106-117

Cai, S., and Lau, V.K.N., A Stability Analysis Framework for Multiantenna Multisensor Cyber-Physical Systems With Rank-Deficient Measurement Matrices; TCNS March 2020 30-41

Canudas-de-Wit, C., see Casadei, G., TCNS Dec. 2020 1778-1788

Canudas-de-Wit, C., see Niazi, M.U.B., TCNS Dec. 2020 1736-1745

Cao, J., see Lin, L., TCNS Dec. 2020 1859-1869

Cao, K., Qiu, Z., and Xie, L., Relative Docking and Formation Control via Range and Odometry Measurements; TCNS June 2020 912-922

Cao, M., see Wang, Z., TCNS Dec. 2020 1960-1973

Casadei, G., Canudas-de-Wit, C., and Zampieri, S., Model Reduction Based Approximation of the Output Controllability Gramian in Large-Scale Networks; TCNS Dec. 2020 1778-1788

Cason, T., see Abdallah, M., TCNS Dec. 2020 1585-1596

Cassandras, C.G., see Wang, Y., TCNS June 2020 545-557

Cassandras, C.G., see Feng, Z., TCNS June 2020 686-698

Cassandras, C.G., see Meng, X., TCNS Sept. 2020 1571-1581

Castillo, A., see Zhao, S., TCNS Sept. 2020 1441-1452

Chakrabortty, A., see Katewa, V., TCNS March 2020 266-277

Chaporkar, P., see Moothedath, S., TCNS Sept. 2020 1164-1175

Chattopadhyay, A., and Mitra, U., Security Against False Data-Injection Attack in Cyber-Physical Systems; TCNS June 2020 1015-1027

Chau, S.C., see Khonji, M., TCNS June 2020 887-898

Chen, F., see Xiang, L., TCNS June 2020 807-817

Chen, G., see Xiang, L., TCNS June 2020 807-817

Chen, G., see Amani, A.M., TCNS Sept. 2020 1547-1558

Chen, H., Zelazo, D., Wang, X., and Shen, L., Convergence Analysis of Signed Nonlinear Networks; TCNS March 2020 189-200

Chen, J., Touati, C., and Zhu, Q., Optimal Secure Two-Layer IoT Network Design; TCNS March 2020 398-409

Chen, J., and Zhu, Q., Control of Multilayer Mobile Autonomous Systems in Adversarial Environments: A Games-in-Games Approach; TCNS Sept. 2020 1056-1068

Chen, L., see Wang, Z., TCNS Dec. 2020 1960-1973

Chen, M., see Zhao, S., TCNS Sept. 2020 1441-1452

Chen, Q., see You, K., TCNS Sept. 2020 1379-1390

Chen, S., see Lesage-Landry, A., TCNS June 2020 724-733

Chen, T., see Yu, H., TCNS Sept. 2020 1342-1354

Chen, X., see Li, G., TCNS June 2020 673-685

Chen, Y., Georgiou, T.T., Pavon, M., and Tannenbaum, A., Relaxed Schrödinger Bridges and Robust Network Routing; TCNS June 2020 923-931

Cheng, P., see Wu, S., TCNS Sept. 2020 1188-1200

Chertkov, M., see Park, S., TCNS Sept. 2020 1428-1440

Chertkov, M., see Deka, D., TCNS Sept. 2020 1391-1403

Choi, H., see Prasad, A., TCNS Sept. 2020 1511-1522

Chong, M.S., see Hashimoto, K., TCNS June 2020 699-710

Chowdhury, D., and Khalil, H.K., Scalable Consensus in Networks of Multiagent Systems Using High-Gain Observers; TCNS Sept. 2020 1237-1247

Clark, A., see Hou, Q., TCNS March 2020 360-371

Coletta, T., and Jacquod, P., Performance Measures in Electric Power Networks Under Line Contingencies; TCNS March 2020 221-231

Colombino, M., Dall'Anese, E., and Bernstein, A., Online Optimization as a Feedback Controller: Stability and Tracking; TCNS March 2020 422-432

Colombo, L.J., and Dimarogonas, D.V., Motion Feasibility Conditions for Multiagent Control Systems on Lie Groups; TCNS March 2020 493-502

Commault, C., and Kibangou, A., Generic Controllability of Networks With Identical SISO Dynamical Nodes; TCNS June 2020 855-865

Coogan, S., see Wei, Q., TCNS Dec. 2020 1940-1950

Cortes, J., see Zhang, Y., TCNS Sept. 2020 1476-1488

Costanzo, J.A.W.B., and Yagan, O., Data-Driven I/O Structure Learning With Contemporaneous Causality; TCNS Dec. 2020 1929-1939

Crandall, K.L., and Wickenheiser, A.M., Controlling Parent Systems Through Swarms Using Abstraction; TCNS March 2020 210-220

D

Dai, J., see Liu, Z., TCNS Dec. 2020 1801-1811

Dai, R., see Wan, C., TCNS June 2020 1040-1051

Dai, X., see Zhao, H., TCNS Sept. 2020 1453-1464

Dall'Anese, E., see Colombino, M., TCNS March 2020 422-432

De, S., Sahoo, S.R., and Wahi, P., Communication-Delay-Dependent Rendezvous With Possible Negative Controller Gain in Cyclic Pursuit; TCNS Sept. 2020 1069-1079

de Badyn, M.H., see Foight, D.R., TCNS Dec. 2020 1812-1822

De Persis, C., see Shi, M., TCNS Sept. 2020 1534-1546

Deka, D., see Park, S., TCNS Sept. 2020 1428-1440

Deka, D., Chertkov, M., and Backhaus, S., Joint Estimation of Topology and Injection Statistics in Distribution Grids With Missing Nodes; TCNS Sept. 2020 1391-1403

DeLellis, P., see Rossa, F.D., TCNS Dec. 2020 1678-1687

Delgado, R.A., see Wigren, T., TCNS Dec. 2020 1633-1642

Deng, C., and Wen, C., Distributed Resilient Observer-Based Fault-Tolerant Control for Heterogeneous Multiagent Systems Under Actuator Faults and DoS Attacks; TCNS Sept. 2020 1308-1318

Deng, S., see Wang, Z., TCNS Dec. 2020 1960-1973

Dimarogonas, D.V., see Hashimoto, K., TCNS June 2020 699-710

Dimarogonas, D.V., see Colombo, L.J., TCNS March 2020 493-502

Dimarogonas, D.V., see Lindemann, L., TCNS Dec. 2020 1916-1928

Ding, D., see Ju, Y., TCNS Sept. 2020 1489-1499

Ding, K., see Wu, S., TCNS Sept. 2020 1188-1200

Dominguez-Garcia, A.D., see Zholbaryssov, M., TCNS March 2020 64-73

Du, B., Mao, R., Kong, N., and Sun, D., Distributed Data Fusion for On-Scene Signal Sensing With a Multi-UAV System; TCNS Sept. 2020 1330-1341

Du, C., Liu, X., Ren, W., Lu, P., and Liu, H., Finite-Time Consensus for Linear Multiagent Systems via Event-Triggered Strategy Without Continuous Communication; TCNS March 2020 19-29 \mathbf{E}

Eksin, C., and Paarporn, K., Control of Learning in Anticoordination Network Games: TCNS Dec. 2020 1823-1835

El-Ferik, S., Al-Rawashdeh, Y.M., and Lewis, F.L., A Framework of Multiagent Systems Behavioral Control Under State-Dependent Network Protocols; TCNS June 2020 734-746

Elbassioni, K., see Khonji, M., TCNS June 2020 887-898

Engelmann, A., Jiang, Y., Houska, B., and Faulwasser, T., Decomposition of Nonconvex Optimization via Bi-Level Distributed ALADIN; TCNS Dec. 2020 1848-1858

Ennasr, O., and Tan, X., Time-Difference-of-Arrival (TDOA)-Based Distributed Target Localization by A Robotic Network; TCNS Sept. 2020 1416-1427

Escobar, M., see Bienstock, D., TCNS June 2020 842-854

Escudero-Garzas, J.J., see Pu, S., TCNS Sept. 2020 1140-1150

F

Faramondi, L., Oliva, G., Setola, R., and Hadjicostis, C.N., Distributed C-Means Clustering Via Broadcast-Only Token Passing; TCNS March 2020 315-325

Faulwasser, T., see Engelmann, A., TCNS Dec. 2020 1848-1858

Feng, Z., Hu, G., and Cassandras, C.G., Finite-Time Distributed Convex Optimization for Continuous-Time Multiagent Systems With Disturbance Rejection; TCNS June 2020 686-698

Foight, D.R., de Badyn, M.H., and Mesbahi, M., Performance and Design of Consensus on Matrix-Weighted and Time-Scaled Graphs; TCNS Dec. 2020 1812-1822

Freeman, R.A., see Lombana, D.A.B., TCNS March 2020 278-287

Friedkin, N.E., see Jia, P., TCNS June 2020 899-911

Fu, J., see Lv, Y., TCNS Sept. 2020 1127-1139

Fujita, M., see Miyano, T., TCNS Sept. 2020 1296-1307

Furieri, L., Zheng, Y., Papachristodoulou, A., and Kamgarpour, M., Sparsity Invariance for Convex Design of Distributed Controllers; TCNS Dec. 2020 1836-1847

G

Gagrani, M., see Vasconcelos, M.M., TCNS Dec. 2020 1723-1735

Gallo, A.J., see Boem, F., TCNS March 2020 288-301

Garcia, A., see Pu, S., TCNS Sept. 2020 1140-1150

Garcia, M., Nagarajan, H., and Baldick, R., Generalized Convex Hull Pricing for the AC Optimal Power Flow Problem; TCNS Sept. 2020 1500-1510

Gasnikov, A.V., see Rogozin, A., TCNS June 2020 829-841

Gatsis, N., see Wang, S., TCNS Sept. 2020 1151-1163

Ge, S.S., see Liu, X., TCNS Sept. 2020 1212-1224

Gentile, B., see Parise, F., TCNS June 2020 770-782

Georgiou, T.T., see Chen, Y., TCNS June 2020 923-931

Ghodrat, M., and Marquez, H.J., Robust Stabilization of Input-Affine Nonlinear Systems Under Network Constraints; *TCNS June 2020 818-828*

Giacomoni, M.H., see Wang, S., TCNS Sept. 2020 1151-1163

Gong, X., and Shroff, N.B., Truthful Data Quality Elicitation for Quality-Aware Data Crowdsourcing; TCNS March 2020 326-337

Gonzalez, A., see Aragues, R., TCNS Sept. 2020 1272-1282

Guan, X., see Zhao, G., TCNS Sept. 2020 1259-1271

Gupta, V., see Katewa, V., TCNS March 2020 266-277

н

Hadjicostis, C.N., see Faramondi, L., TCNS March 2020 315-325

Halgamuge, S., see Premaratne, U., TCNS June 2020 758-769

Han, L., see Lin, F., TCNS March 2020 53-63 **Hao, F.,** see Yu, H., TCNS Sept. 2020 1342-1354

Hashimoto, K., Chong, M.S., and Dimarogonas, D.V., Distributed ℓ_1 -State-and-Fault Estimation for Multiagent Systems; *TCNS June 2020 699-710*

Hatanaka, T., see Miyano, T., TCNS Sept. 2020 1296-1307

Hirche, S., see Li, X., TCNS June 2020 967-976

Hirche, S., see Klugel, M., TCNS Dec. 2020 1903-1915

Hong, H., Yu, X., Yu, W., Zhang, D., and Wen, G., Distributed Convex Optimization on State-Dependent Undirected Graphs: Homogeneity Technique; TCNS March 2020 42-52

Hong, Y., see Li, X., TCNS March 2020 74-84

Horowitz, R., see Mehr, N., TCNS March 2020 96-105

Hota, A.R., see Abdallah, M., TCNS Dec. 2020 1585-1596

Hou, Q., and Clark, A., Sensor Placement for Optimal Control of Infinite-Dimensional Systems; TCNS March 2020 360-371

Houska, B., see Engelmann, A., TCNS Dec. 2020 1848-1858

Hsu, S., Laplacian Controllability of Interconnected Graphs; TCNS June 2020 797-806

Hu, G., see Feng, Z., TCNS June 2020 686-698

Hu, G., see Zhang, Y., TCNS March 2020 503-515

Hu, H., Wen, G., and Zheng, W.X., Collective Behavior of Heterogeneous Agents in Uncertain Cooperation—Competition Networks: A Nussbaum-Type Function Based Approach; TCNS June 2020 783-796

Hu, J., Bhowmick, P., and Lanzon, A., Distributed Adaptive Time-Varying Group Formation Tracking for Multiagent Systems With Multiple Leaders on Directed Graphs; TCNS March 2020 140-150

Hua, C., see Zhao, G., TCNS Sept. 2020 1259-1271

Huang, T., see Lv, Y., TCNS March 2020 118-128

Huang, T., see Lv, Y., TCNS Sept. 2020 1127-1139

Huang, T., see Zhu, S., TCNS Dec. 2020 1769-1777

Huang, Y., and Zhu, Q., A Differential Game Approach to Decentralized Virus-Resistant Weight Adaptation Policy Over Complex Networks; TCNS June 2020 944-955

I

Iglesias, R., see Rossi, F., TCNS March 2020 384-397 **Ishii, H.,** see Wang, Y., TCNS March 2020 471-482

J

Jacquod, P., see Coletta, T., TCNS March 2020 221-231

Jaleel, H., and Shamma, J.S., Distributed Submodular Minimization and Motion Planning Over Discrete State Space; TCNS June 2020 932-943

Jalili, M., see Amani, A.M., TCNS Sept. 2020 1547-1558

Jia, P., Friedkin, N.E., and Bullo, F., Opinion Dynamics and Social Power Evolution: A Single–Timescale Model; TCNS June 2020 899-911

Jia, Q., see Wu, S., TCNS June 2020 579-591

Jiang, Y., see Engelmann, A., TCNS Dec. 2020 1848-1858

Jiao, Q., see Lin, X., TCNS June 2020 592-602

Jimbo, T., see Miyano, T., TCNS Sept. 2020 1296-1307

Jing, G., see Wan, C., TCNS June 2020 1040-1051

Johansson, K.H., see Wu, S., TCNS June 2020 579-591

Johansson, K.H., see Milosevic, J., TCNS June 2020 747-757

Johansson, K.H., see Klugel, M., TCNS Dec. 2020 1903-1915

Ju, Y., Wei, G., Ding, D., and Liu, S., A Novel Fault Detection Method Under Weighted Try-Once-Discard Scheduling Over Sensor Networks; TCNS Sept. 2020 1489-1499

K

Kamgarpour, M., see Zheng, Y., TCNS June 2020 614-626

Kamgarpour, M., see Furieri, L., TCNS Dec. 2020 1836-1847

Kasis, A., Monshizadeh, N., and Lestas, I., Secondary Frequency Control With On–Off Load Side Participation in Power Networks; TCNS June 2020 603-613

Katewa, V., Chakrabortty, A., and Gupta, V., Differential Privacy for Network Identification; TCNS March 2020 266-277

Kekatos, V., see Singh, M.K., TCNS June 2020 711-723

Kekatos, V., see Singh, M.K., TCNS Sept. 2020 1283-1295

Kellerer, W., see Klugel, M., TCNS Dec. 2020 1903-1915

Khalil, H.K., see Chowdhury, D., TCNS Sept. 2020 1237-1247

Khonji, M., Chau, S.C., and Elbassioni, K., Combinatorial Optimization of AC Optimal Power Flow With Discrete Demands in Radial Networks; TCNS June 2020 887-898

Kibangou, A., see Commault, C., TCNS June 2020 855-865

Kibangou, A.Y., see Niazi, M.U.B., TCNS Dec. 2020 1736-1745

Klugel, M., Mamduhi, M., Ayan, O., Vilgelm, M., Johansson, K.H., Hirche, S., and Kellerer, W., Joint Cross-Layer Optimization in Real-Time Networked Control Systems; TCNS Dec. 2020 1903-1915

Kong, N., see Du, B., TCNS Sept. 2020 1330-1341

Kundu, A., and Quevedo, D.E., Stabilizing Scheduling Policies for Networked Control Systems; TCNS March 2020 163-175

Kwon, S., Bae, Y., Liu, J., and Ahn, H., From Matrix-Weighted Consensus to Multipartite Average Consensus; *TCNS Dec.* 2020 1609-1620

 \mathbf{L}

Lanzon, A., see Hu, J., TCNS March 2020 140-150

Lau, K., see Wigren, T., TCNS Dec. 2020 1633-1642

Lau, V.K.N., see Cai, S., TCNS March 2020 30-41

Lavaei, J., see Ouyang, Y., TCNS Sept. 2020 1176-1187

Ledwich, G., see Xing, L., TCNS Sept. 2020 1559-1570

Leifeld, T., see Zhang, Z., TCNS March 2020 516-528

Lesage-Landry, A., Chen, S., and Taylor, J.A., Estimating the Frequency Coupling Matrix From Network Measurements; *TCNS June 2020 724-733*

Lessard, L., see Sundararajan, A., TCNS Dec. 2020 1597-1608

Lestas, I., see Kasis, A., TCNS June 2020 603-613

Leung, K.K., see Zafari, F., TCNS March 2020 151-162

Lewis, F.L., see Lopez, V.G., TCNS June 2020 1028-1039

Lewis, F.L., see El-Ferik, S., TCNS June 2020 734-746

Lewis, F.L., see Liu, H., TCNS Sept. 2020 1319-1329

Li, B., Lu, J., Liu, Y., and Wu, Z., The Outputs Robustness of Boolean Control Networks via Pinning Control; *TCNS March* 2020 201-209

Li, F., Wang, D., and Tang, Y., Pinning Controllability ofk-ValuedLogical Systems; TCNS Sept. 2020 1523-1533

Li, G., Chen, X., Tang, P., Xiao, G., Wen, C., and Shi, L., Target Control of Directed Networks based on Network Flow Problems; TCNS June 2020 673-685

Li, J., see Zafari, F., TCNS March 2020 151-162

Li, X., Liu, F., Buss, M., and Hirche, S., Fully Distributed Consensus Control for Linear Multiagent Systems: A Reduced-Order Adaptive Feedback Approach; TCNS June 2020 967-976

Li, X., Xie, L., and Hong, Y., Distributed Continuous-Time Nonsmooth Convex Optimization With Coupled Inequality Constraints; TCNS March 2020 74-84

Li, X., Luo, X., and Zhao, S., Globally Convergent Distributed Network Localization Using Locally Measured Bearings; TCNS March 2020 245-253

Li, Z., see Yang, J., TCNS Dec. 2020 1882-1890

Liang, X., Xu, J., and Zhang, H., Optimal Control and Stabilization for Networked Control Systems With Asymmetric Information; TCNS Sept. 2020 1355-1365

Lin, F., Wang, W., Han, L., and Shen, B., State Estimation of Multichannel Networked Discrete Event Systems; TCNS March 2020 53-63

Lin, F., see Xu, P., TCNS March 2020 176-186

Lin, H., see Liu, Z., TCNS Dec. 2020 1801-1811

Lin, L., Cao, J., Zhu, S., Rutkowski, L., and Lu, G., Sampled-Data Set Stabilization of Impulsive Boolean Networks Based on a Hybrid Index Model; TCNS Dec. 2020 1859-1869

Lin, X., Jiao, Q., and Wang, L., Information Propagation Over Networks With Antagonistic Interactions: The Equilibrium Analysis; TCNS June 2020 592-602

Lin, X., see Zhao, S., TCNS Sept. 2020 1441-1452

Lindemann, L., and Dimarogonas, D.V., Barrier Function Based Collaborative Control of Multiple Robots Under Signal Temporal Logic Tasks; TCNS Dec. 2020 1916-1928

Liu, F., see Li, X., TCNS June 2020 967-976

Liu, F., and Buss, M., Optimal Control for Heterogeneous Node-Based Information Epidemics Over Social Networks; TCNS Sept. 2020 1115-1126 Liu, F., see Wang, Z., TCNS Dec. 2020 1960-1973

Liu, H., see Du, C., TCNS March 2020 19-29

Liu, H., Wang, Y., Lewis, F.L., and Valavanis, K.P., Robust Formation Tracking Control for Multiple Quadrotors Subject to Switching Topologies; TCNS Sept. 2020 1319-1329

Liu, J., see Cai, Q., TCNS March 2020 106-117

Liu, J., see Xiong, Y., TCNS Sept. 2020 1366-1378

Liu, J., see Kwon, S., TCNS Dec. 2020 1609-1620

Liu, S., see Ju, Y., TCNS Sept. 2020 1489-1499

Liu, X., see Du, C., TCNS March 2020 19-29

Liu, X., Ma, G., Pagilla, P.R., and Ge, S.S., Dissipativity-Based Asynchronous Repetitive Control for Networked Markovian Jump Systems: 2-D System Approach; TCNS Sept. 2020 1212-1224

Liu, Y., see Li, B., TCNS March 2020 201-209

Liu, Y., see Zhu, S., TCNS Dec. 2020 1769-1777

Liu, Z., Wu, B., Dai, J., and Lin, H., Distributed Communication-Aware Motion Planning for Networked Mobile Robots Under Formal Specifications; TCNS Dec. 2020 1801-1811

Lombana, D.A.B., Freeman, R.A., and Lynch, K., Distributed Inference of the Multiplex Network Topology of Complex Systems; TCNS March 2020 278-287

Lopez, V.G., Wan, Y., and Lewis, F.L., Bayesian Graphical Games for Synchronization in Networks of Dynamical Systems; TCNS June 2020 1028-1039

Lopez-Nicolas, G., see Aragues, R., TCNS Sept. 2020 1272-1282

Lu, G., see Lin, L., TCNS Dec. 2020 1859-1869

Lu, J., see Li, B., TCNS March 2020 201-209

Lu, J., see Zhu, S., TCNS Dec. 2020 1769-1777

Lu, P., see Du, C., TCNS March 2020 19-29

Luo, X., see Li, X., TCNS March 2020 245-253

Lv, Y., Wen, G., and Huang, T., Adaptive Protocol Design For Distributed Tracking With Relative Output Information: A Distributed Fixed-Time Observer Approach; TCNS March 2020 118-128

Lv, Y., see Wang, P., TCNS March 2020 254-265

Lv, Y., Fu, J., Wen, G., Huang, T., and Yu, X., On Consensus of Multiagent Systems With Input Saturation: Fully Distributed Adaptive Antiwindup Protocol Design Approach; *TCNS Sept. 2020 1127-1139*

Lygeros, J., see Parise, F., TCNS June 2020 770-782

Lynch, K., see Lombana, D.A.B., TCNS March 2020 278-287

M

Ma, G., see Liu, X., TCNS Sept. 2020 1212-1224

Mackin, E., and Patterson, S., Optimizing the Coherence of a Network of Networks; *TCNS Sept. 2020 1465-1475*

Malkovsky, N., see Rogozin, A., TCNS June 2020 829-841

Mamduhi, M., see Klugel, M., TCNS Dec. 2020 1903-1915

Manfredi, S., and Angeli, D., Robust Distributed Estimation of the Maximum of a Field; TCNS March 2020 372-383

Manfredi, S., Natalizio, E., Pascariello, C., and Zema, N.R., Stability and Convergence of a Message-Loss-Tolerant Rendezvous Algorithm for Wireless Networked Robot Systems; TCNS Sept. 2020 1103-1114

Manjrekar, M., Ramaswamy, V., Reddyvari Raja, V., and Shakkottai, S., A Mean Field Game Approach to Scheduling in Cellular Systems; TCNS June 2020 568-578

Mao, R., see Du, B., TCNS Sept. 2020 1330-1341

Marden, J.R., see Brown, P.N., TCNS Dec. 2020 1643-1653

Mareels, I.M.Y., see Premaratne, U., TCNS June 2020 758-769

Marquez, H.J., see Ghodrat, M., TCNS June 2020 818-828

McCarthy, P.J., and Nielsen, C., Global Synchronization of Sampled-Data Invariant Systems on Exponential Lie Groups; TCNS Sept. 2020 1080-1089

McDonald, C., Alajaji, F., and Yuksel, S., Two-Way Gaussian Networks With a Jammer and Decentralized Control; TCNS March 2020 446-457

Mehr, N., and Horowitz, R., How Will the Presence of Autonomous Vehicles Affect the Equilibrium State of Traffic Networks?; TCNS March 2020 96-105 Mei, J., Distributed Consensus for Multiple Lagrangian Systems With Parametric Uncertainties and External Disturbances Under Directed Graphs; TCNS June 2020 648-659

Mei, S., see Wang, Z., TCNS Dec. 2020 1960-1973

Menara, T., Baggio, G., Bassett, D.S., and Pasqualetti, F., Stability Conditions for Cluster Synchronization in Networks of Heterogeneous Kuramoto Oscillators; TCNS March 2020 302-314

Meng, X., and Cassandras, C.G., Trajectory Optimization of Autonomous Agents With Spatio-Temporal Constraints; TCNS Sept. 2020 1571-1581

Mesbahi, M., see Foight, D.R., TCNS Dec. 2020 1812-1822

Middleton, R.H., see Wigren, T., TCNS Dec. 2020 1633-1642

Milosevic, J., Sandberg, H., and Johansson, K.H., Estimating the Impact of Cyber-Attack Strategies for Stochastic Networked Control Systems; TCNS June 2020 747-757

Mishra, Y., see Xing, L., TCNS Sept. 2020 1559-1570

Mitra, U., see Chattopadhyay, A., TCNS June 2020 1015-1027

Mitra, U., see Vasconcelos, M.M., TCNS March 2020 232-244

Mitra, U., see Vasconcelos, M.M., TCNS Dec. 2020 1723-1735

Miyano, T., Yamashita, S., Hatanaka, T., Shibata, K., Jimbo, T., and Fujita, M., Continuous-Time Optimization Dynamics Mirroring ADMM Architecture and Passivity-Based Robustification Against Delays; TCNS Sept. 2020 1206, 1207.

Monshizadeh, N., see Kasis, A., TCNS June 2020 603-613

Monshizadeh, N., see Shi, M., TCNS Sept. 2020 1534-1546

Moothedath, S., Chaporkar, P., and Belur, M.N., Optimal Network Topology Design in Composite Systems for Structural Controllability; TCNS Sept. 2020 1164-1175

Motee, N., see Somarakis, C., TCNS Sept. 2020 1248-1258

Motee, N., see Mousavi, H.K., TCNS Dec. 2020 1688-1699

Mousavi, H.K., and Motee, N., Explicit Characterization of Performance of a Class of Networked Linear Control Systems; TCNS Dec. 2020 1688-1699

N

Nagarajan, H., see Garcia, M., TCNS Sept. 2020 1500-1510

Naghizadeh, P., see Abdallah, M., TCNS Dec. 2020 1585-1596

Natalizio, E., see Manfredi, S., TCNS Sept. 2020 1103-1114

Nayyar, A., see Vasconcelos, M.M., TCNS Dec. 2020 1723-1735

Nedic, A., see Rogozin, A., TCNS June 2020 829-841

Niazi, M.U.B., Canudas-de-Wit, C., and Kibangou, A.Y., Average State Estimation in Large-Scale Clustered Network Systems; TCNS Dec. 2020 1736-1745

Nie, T., see Wu, D., TCNS June 2020 660-672

Nielsen, C., see McCarthy, P.J., TCNS Sept. 2020 1080-1089

Notarnicola, I., and Notarstefano, G., Constraint-Coupled Distributed Optimization: A Relaxation and Duality Approach; TCNS March 2020 483-492

Notarstefano, G., see Notarnicola, I., TCNS March 2020 483-492

Noubir, G., see Xin, L., TCNS Dec. 2020 1757-1768

Nowzari, C., see Bowman, S.L., TCNS June 2020 627-637

0

Ogura, M., and Preciado, V.M., Stability of SIS Spreading Processes in Networks With Non-Markovian Transmission and Recovery; TCNS March 2020 349-359

Oliva, G., see Faramondi, L., TCNS March 2020 315-325

Ouyang, Y., Zhang, R.Y., Lavaei, J., and Varaiya, P., Large-Scale Traffic Signal Offset Optimization; TCNS Sept. 2020 1176-1187

P

Paarporn, K., see Eksin, C., TCNS Dec. 2020 1823-1835 Pagilla, P.R., see Liu, X., TCNS Sept. 2020 1212-1224

Pan, T., see Zhai, C., TCNS June 2020 956-966

Papachristodoulou, A., see Zheng, Y., TCNS June 2020 614-626

Papachristodoulou, A., see Furieri, L., TCNS Dec. 2020 1836-1847

Pappas, G.J., see Bowman, S.L., TCNS June 2020 627-637

Pappas, G.J., see Becker, C.O., TCNS Sept. 2020 1404-1415

Parise, F., Gentile, B., and Lygeros, J., A Distributed Algorithm For Almost-Nash Equilibria of Average Aggregative Games With Coupling Constraints; TCNS June 2020 770-782

Parisini, T., see Boem, F., TCNS March 2020 288-301

Park, S., Deka, D., Backhaus, S., and Chertkov, M., Learning With End-Users in Distribution Grids: Topology and Parameter Estimation; TCNS Sept. 2020 1428-1440

Pascariello, C., see Manfredi, S., TCNS Sept. 2020 1103-1114

Pasqualetti, F., see Menara, T., TCNS March 2020 302-314

Patterson, S., see Mackin, E., TCNS Sept. 2020 1465-1475

Pavel, L., see Romano, A.R., TCNS March 2020 129-139

Pavon, M., see Chen, Y., TCNS June 2020 923-931

Pavone, M., see Rossi, F., TCNS March 2020 384-397

Pedarsani, R., see Wei, Q., TCNS Dec. 2020 1940-1950

Pequito, S., see Becker, C.O., TCNS Sept. 2020 1404-1415

Pico, H.N.V., see Zhao, S., TCNS Sept. 2020 1441-1452

Porfiri, M., see Zino, L., TCNS June 2020 866-877

Prakash, M., Talukdar, S., Attree, S., Yadav, V., and Salapaka, M.V., Distributed Stopping Criterion for Consensus in the Presence of Delays; TCNS March 2020 85-95

Prasad, A., Choi, H., and Sundaram, S., Min-Max Tours and Paths for Task Allocation to Heterogeneous Agents; TCNS Sept. 2020 1511-1522

Preciado, V.M., see Ogura, M., TCNS March 2020 349-359

Preciado, V.M., see Becker, C.O., TCNS Sept. 2020 1404-1415

Premaratne, U., Halgamuge, S., Tan, Y., and Mareels, I.M.Y., Extremum Seeking Control With Sporadic Packet Transmission for Networked Control Systems; TCNS June 2020 758-769

Pu, S., Escudero-Garzas, J.J., Garcia, A., and Shahrampour, S., An Online Mechanism for Resource Allocation in Networks; TCNS Sept. 2020 1140-1150

Q

Qian, W., see Yang, J., TCNS Dec. 2020 1882-1890 Qiu, Z., see Cao, K., TCNS June 2020 912-922

Quevedo, D.E., see Kundu, A., TCNS March 2020 163-175

Raimondo, D.M., see Boem, F., TCNS March 2020 288-301

Ramaswamy, V., see Manjrekar, M., TCNS June 2020 568-578

Rastgoftar, H., and Atkins, E., Physics-Based Freely Scalable Continuum Deformation for UAS Traffic Coordination; TCNS June 2020 532-544

Reddyvari Raja, V., see Manjrekar, M., TCNS June 2020 568-578

Ren, W., see Du, C., TCNS March 2020 19-29

Ren, W., see Wang, B., TCNS Dec. 2020 1974-1984

Ren, X., see Wu, S., TCNS June 2020 579-591

Rizzo, A., see Zino, L., TCNS June 2020 866-877

Rogozin, A., Uribe, C.A., Gasnikov, A.V., Malkovsky, N., and Nedic, A., Optimal Distributed Convex Optimization on Slowly Time-Varying Graphs; TCNS June 2020 829-841

Romano, A.R., and Pavel, L., Dynamic NE Seeking for Multi-Integrator Networked Agents With Disturbance Rejection; TCNS March 2020 129-139

Rosinger, C.A., and Scherer, C.W., A Flexible Synthesis Framework of Structured Controllers for Networked Systems; TCNS March 2020 6-18

Rossa, F.D., and DeLellis, P., Stochastic Pinning Controllability of Noisy Complex Networks; TCNS Dec. 2020 1678-1687

Rossi, F., Iglesias, R., Alizadeh, M., and Pavone, M., On the Interaction Between Autonomous Mobility-on-Demand Systems and the Power Network: Models and Coordination Algorithms; TCNS March 2020 384-397

Roy, S., Xue, M., Battistelli, G., and Tesi, P., Comment on "Detecting Topology Variations in Networks of Linear Dynamical Systems" TCNS March 2020

Roy, S., see Ye, L., TCNS Dec. 2020 1870-1881

Rutkowski, L., see Lin, L., TCNS Dec. 2020 1859-1869

 \mathbf{S}

Sagues, C., see Aragues, R., TCNS Sept. 2020 1272-1282

Sahoo, S.R., see De, S., TCNS Sept. 2020 1069-1079

Sakurama, K., Clique-Based Distributed PI Control for Multiagent Coordination With Heterogeneous, Uncertain, Time-Varying Orientations; TCNS Dec. 2020 1712-1722

Salapaka, M.V., see Prakash, M., TCNS March 2020 85-95

Salapaka, S.M., see Srivastava, A., TCNS Dec. 2020 1700-1711

Sandberg, H., see Milosevic, J., TCNS June 2020 747-757

Scherer, C.W., see Rosinger, C.A., TCNS March 2020 6-18

Setola, R., see Faramondi, L., TCNS March 2020 315-325

Shabbir, M., see Abbas, W., TCNS Dec. 2020 1891-1902

Shahrampour, S., see Pu, S., TCNS Sept. 2020 1140-1150

Shakkottai, S., see Manjrekar, M., TCNS June 2020 568-578

Shamma, J.S., see Jaleel, H., TCNS June 2020 932-943

Shan, M., see Wang, Y., TCNS June 2020 977-989

Shen, B., see Lin, F., TCNS March 2020 53-63

Shen, L., see Chen, H., TCNS March 2020 189-200

Shi, L., see Wu, S., TCNS June 2020 579-591

Shi, L., see Wang, C., TCNS June 2020 558-567

Shi, L., see Li, G., TCNS June 2020 673-685

Shi, L., see Wu, S., TCNS Sept. 2020 1188-1200

Shi, M., De Persis, C., Tesi, P., and Monshizadeh, N., Bias Estimation in Sensor Networks; TCNS Sept. 2020 1534-1546

Shibata, K., see Miyano, T., TCNS Sept. 2020 1296-1307

Shin, S., Zavala, V.M., and Anitescu, M., Decentralized Schemes With Overlap for Solving Graph-Structured Optimization Problems; TCNS Sept. 2020 1225-1236

Shroff, N.B., see Gong, X., TCNS March 2020 326-337

Shroff, N.B., see Zhang, M., TCNS Dec. 2020 1665-1677

Shu, S., see Xu, P., TCNS March 2020 176-186

Singh, M.K., and Kekatos, V., Optimal Scheduling of Water Distribution Systems; TCNS June 2020 711-723

Singh, M.K., and Kekatos, V., Natural Gas Flow Solvers Using Convex Relaxation; TCNS Sept. 2020 1283-1295

Somarakis, C., and Motee, N., Aggregate Fluctuations in Networks With Drift-Diffusion Models Driven by Stable Non-Gaussian Disturbances; TCNS Sept. 2020 1248-1258

Song, S., see You, K., TCNS Sept. 2020 1379-1390

Song, Y., see Xing, L., TCNS Sept. 2020 1559-1570

Sootla, A., see Zheng, Y., TCNS June 2020 614-626

Sou, K.C., Protection Placement for Power System State Estimation Measurement Data Integrity; TCNS June 2020 638-647

Srivastava, A., and Salapaka, S.M., Simultaneous Facility Location and Path Optimization in Static and Dynamic Networks; TCNS Dec. 2020 1700-1711

Starobinski, D., see Xin, L., TCNS Dec. 2020 1757-1768

Stone, L., see Amani, A.M., TCNS Sept. 2020 1547-1558

Sun, D., see Du, B., TCNS Sept. 2020 1330-1341

Sun, L., see Zhang, Y., TCNS March 2020 503-515

Sun, S., see Wang, B., TCNS Dec. 2020 1974-1984

Sundaram, S., see Prasad, A., TCNS Sept. 2020 1511-1522

Sundaram, S., see Abdallah, M., TCNS Dec. 2020 1585-1596 Sundaram, S., see Ye, L., TCNS Dec. 2020 1870-1881

Sundararajan, A., Van Scoy, B., and Lessard, L., Analysis and Design of First-Order Distributed Optimization Algorithms Over Time-Varying Graphs; TCNS Dec. 2020 1597-1608

Swami, A., see Zafari, F., TCNS March 2020 151-162

T

Taha, A.F., see Wang, S., TCNS Sept. 2020 1151-1163 Talukdar, S., see Prakash, M., TCNS March 2020 85-95 Tan, X., see Ennasr, O., TCNS Sept. 2020 1416-1427 Tan, Y., see Premaratne, U., TCNS June 2020 758-769 Tang, P., see Li, G., TCNS June 2020 673-685 Tang, Y., see Li, F., TCNS Sept. 2020 1523-1533

Tang, Y., see Zhang, D., TCNS Dec. 2020 1789-1800

Tannenbaum, A., see Chen, Y., TCNS June 2020 923-931

Tao, Y., see Wang, C., TCNS June 2020 558-567

Taylor, J.A., see Lesage-Landry, A., TCNS June 2020 724-733

Tesi, P., see Roy, S., TCNS March 2020 187-188

Tesi, P., see Shi, M., TCNS Sept. 2020 1534-1546

Tian, Y., see Xing, L., TCNS Sept. 2020 1559-1570

Touati, C., see Chen, J., TCNS March 2020 398-409

Towsley, D., see Zafari, F., TCNS March 2020 151-162

Turitsyn, K., see Wu, D., TCNS June 2020 660-672

U

Ugrinovskii, V., Distributed H_{∞} Estimation Resilient to Biasing Attacks; *TCNS March 2020 458-470*

Uribe, C.A., see Rogozin, A., TCNS June 2020 829-841

V

Valavanis, K.P., see Liu, H., TCNS Sept. 2020 1319-1329

Van Scoy, B., see Sundararajan, A., TCNS Dec. 2020 1597-1608

Van Tran, Q., and Ahn, H., Distributed Formation Control of Mobile Agents via Global Orientation Estimation; TCNS Dec. 2020 1654-1664

Varaiya, P., see Ouyang, Y., TCNS Sept. 2020 1176-1187

Vasconcelos, M.M., and Mitra, U., Observation-Driven Scheduling for Remote Estimation of Two Gaussian Random Variables; TCNS March 2020 232-244

Vasconcelos, M.M., Gagrani, M., Nayyar, A., and Mitra, U., Optimal Scheduling Strategy for Networked Estimation With Energy Harvesting; TCNS Dec. 2020 1723-1735

Venkitasubramaniam, P., see Zhang, R., TCNS March 2020 338-348 Vilgelm, M., see Klugel, M., TCNS Dec. 2020 1903-1915

W

Wahi, P., see De, S., TCNS Sept. 2020 1069-1079

Wan, C., Jing, G., You, S., and Dai, R., Sensor Network Localization via Alternating Rank Minimization Algorithms; TCNS June 2020 1040-1051

Wan, Y., see Lopez, V.G., TCNS June 2020 1028-1039

Wang, B., Sun, S., and Ren, W., Distributed Continuous-Time Algorithms for Optimal Resource Allocation With Time-Varying Quadratic Cost Functions; TCNS Dec. 2020 1974-1984

Wang, C., Tao, Y., and Shi, L., Time Decision for Multi-Input and Multi-Output Networked Control Systems; TCNS June 2020 558-567

Wang, D., see Wang, Y., TCNS June 2020 977-989

Wang, D., see Li, F., TCNS Sept. 2020 1523-1533

Wang, L., see Lin, X., TCNS June 2020 592-602

Wang, P., see Xiang, L., TCNS June 2020 807-817

Wang, P., Wen, G., Yu, X., Yu, W., and Lv, Y., Consensus Disturbance Rejection for Linear Multiagent Systems With Directed Switching Communication Topologies; TCNS March 2020 254-265

Wang, S., Taha, A.F., Gatsis, N., and Giacomoni, M.H., Receding Horizon Control for Drinking Water Networks: The Case for Geometric Programming; TCNS Sept. 2020 1151-1163

Wang, W., see Lin, F., TCNS March 2020 53-63

Wang, X., see Chen, H., TCNS March 2020 189-200

Wang, Y., Zhao, M., Yang, W., Zhou, N., and Cassandras, C.G., Collision-Free Trajectory Design for 2-D Persistent Monitoring Using Second-Order Agents; TCNS June 2020 545-557

Wang, Y., Shan, M., and Wang, D., Motion Capability Analysis for Multiple Fixed-Wing UAV Formations With Speed and Heading Rate Constraints; TCNS June 2020 977-989

Wang, Y., and Ishii, H., Resilient Consensus Through Event-Based Communication; TCNS March 2020 471-482

Wang, Y., see Anglea, T., TCNS Sept. 2020 1090-1102

Wang, Y., see Liu, H., TCNS Sept. 2020 1319-1329

Wang, Y., Zhang, W., and Yu, L., A Linear Active Disturbance Rejection Control Approach to Position Synchronization Control for Networked Interconnected Motion System; TCNS Dec. 2020 1746-1756

Wang, Z., Chen, L., Liu, F., Yi, P., Cao, M., Deng, S., and Mei, S., Asynchronous Distributed Power Control of Multimicrogrid Systems; TCNS Dec. 2020 1960-1973

Wei, G., see Ju, Y., TCNS Sept. 2020 1489-1499

Wei, Q., Pedarsani, R., and Coogan, S., Mixed Autonomy in Ride-Sharing Networks; TCNS Dec. 2020 1940-1950

Wen, C., see Li, G., TCNS June 2020 673-685

Wen, C., see Xing, L., TCNS Sept. 2020 1559-1570

Wen, C., see Deng, C., TCNS Sept. 2020 1308-1318

Wen, C., see Yan, J., TCNS Dec. 2020 1951-1959

Wen, G., see Hu, H., TCNS June 2020 783-796

Wen, G., see Hong, H., TCNS March 2020 42-52

Wen, G., see Lv, Y., TCNS March 2020 118-128

Wen, G., see Wang, P., TCNS March 2020 254-265

Wen, G., see Lv, Y., TCNS Sept. 2020 1127-1139

Wickenheiser, A.M., see Crandall, K.L., TCNS March 2020 210-220

Wigren, T., Lau, K., Delgado, R.A., and Middleton, R.H., Globally Stable Delay Alignment for Feedback Control Over Wireless Multipoint Connections; TCNS Dec. 2020 1633-1642

Wu, B., see Liu, Z., TCNS Dec. 2020 1801-1811

Wu, D., Nie, T., Turitsyn, K., and Blumsack, S., Estimating Loadability Region of Natural Gas System via Monotone Inner Polytope Sequence; TCNS June 2020 660-672

Wu, L., see Xiong, Y., TCNS Sept. 2020 1366-1378

Wu, S., Ren, X., Jia, Q., Johansson, K.H., and Shi, L., Learning Optimal Scheduling Policy for Remote State Estimation Under Uncertain Channel Condition; TCNS June 2020 579-591

Wu, S., Ding, K., Cheng, P., and Shi, L., Optimal Scheduling of Multiple Sensors Over Lossy and Bandwidth Limited Channels; TCNS Sept. 2020 1188-1200

Wu, X., see Zhang, D., TCNS Dec. 2020 1789-1800

Wu, Z., see Li, B., TCNS March 2020 201-209

X

Xiang, L., Wang, P., Chen, F., and Chen, G., Controllability of Directed Networked MIMO Systems With Heterogeneous Dynamics; TCNS June 2020 807-817

Xiao, G., see Zhai, C., TCNS June 2020 956-966

Xiao, G., see Li, G., TCNS June 2020 673-685

Xie, L., see Cao, K., TCNS June 2020 912-922

Xie, L., see Li, X., TCNS March 2020 74-84

Xie, P., see You, K., TCNS Sept. 2020 1379-1390

Xin, L., Starobinski, D., and Noubir, G., Cascading Attacks on Wi-Fi Networks: Theory and Experiments; *TCNS Dec. 2020 1757-1768*

Xing, L., Xu, Q., Wen, C., Tian, Y., Mishra, Y., Ledwich, G., and Song, Y., Robust Event-Triggered Dynamic Average Consensus Against Communication Link Failures With Application to Battery Control; TCNS Sept. 2020 1559-1570

Xiong, J., see Yu, T., TCNS Sept. 2020 1201-1211

Xiong, Y., Xu, J., You, K., Liu, J., and Wu, L., Privacy-Preserving Distributed Online Optimization Over Unbalanced Digraphs via Subgradient Rescaling; TCNS Sept. 2020 1366-1378

Xu, J., see Liang, X., TCNS Sept. 2020 1355-1365

Xu, J., see Xiong, Y., TCNS Sept. 2020 1366-1378

Xu, P., Shu, S., and Lin, F., Verification of Delay Co-Observability for Discrete Event Systems; TCNS March 2020 176-186

Xu, Q., see Xing, L., TCNS Sept. 2020 1559-1570

Xue, M., see Roy, S., TCNS March 2020 187-188

Y

Yadav, V., see Prakash, M., TCNS March 2020 85-95

Yagan, O., see Zhuang, Y., TCNS March 2020 410-421

Yagan, O., see Costanzo, J.A.W.B., TCNS Dec. 2020 1929-1939

Yamashita, S., see Miyano, T., TCNS Sept. 2020 1296-1307

Yan, J., and Wen, C., Resilient Containment Control in Adversarial Environment: TCNS Dec. 2020 1951-1959

Yang, G., see An, L., TCNS Dec. 2020 1621-1632

Yang, J., Qian, W., and Li, Z., Redefined Reconstructibility and State Estimation for Boolean Networks; TCNS Dec. 2020 1882-1890

Yang, T., see Zhao, H., TCNS Sept. 2020 1453-1464

Yang, W., see Wang, Y., TCNS June 2020 545-557

Yazicioglu, A.Y., see Abbas, W., TCNS Dec. 2020 1891-1902

Ye, L., Roy, S., and Sundaram, S., Resilient Sensor Placement for Kalman Filtering in Networked Systems: Complexity and Algorithms; TCNS Dec. 2020 1870-1881

Yi, P., see Wang, Z., TCNS Dec. 2020 1960-1973

You, K., Chen, Q., Xie, P., and Song, S., Range-Based Coordinate Alignment for Cooperative Mobile Sensor Network Localization; TCNS Sept. 2020 1379-1390

You, K., see Xiong, Y., TCNS Sept. 2020 1366-1378

You, S., see Wan, C., TCNS June 2020 1040-1051

Yu, H., Chen, T., and Hao, F., Output-Based Periodic Event-Triggered Control for Nonlinear Plants: An Approximate-Model Method; TCNS Sept. 2020 1342-1354

Yu, L., see Wang, Y., TCNS Dec. 2020 1746-1756

Yu, T., and Xiong, J., Distributed Networked Controller Design for Large-Scale Systems Under Round-Robin Communication Protocol; TCNS Sept. 2020 1201-1211

Yu, W., see Hong, H., TCNS March 2020 42-52

Yu, W., see Wang, P., TCNS March 2020 254-265

Yu, X., see Hong, H., TCNS March 2020 42-52

Yu, X., see Wang, P., TCNS March 2020 254-265

Yu, X., see Amani, A.M., TCNS Sept. 2020 1547-1558

Yu, X., see Lv, Y., TCNS Sept. 2020 1127-1139

Yuksel, S., see McDonald, C., TCNS March 2020 446-457

\mathbf{Z}

Zafari, F., Li, J., Leung, K.K., Towsley, D., and Swami, A., Optimal Energy Consumption for Communication, Computation, Caching, and Quality Guarantee; TCNS March 2020 151-162

Zamani, M., see Awan, A.U., TCNS March 2020 433-445

Zampieri, S., see Casadei, G., TCNS Dec. 2020 1778-1788

Zavala, V.M., see Shin, S., TCNS Sept. 2020 1225-1236

Zelazo, D., see Chen, H., TCNS March 2020 189-200

Zema, N.R., see Manfredi, S., TCNS Sept. 2020 1103-1114

Zhai, C., Zhang, H., Xiao, G., and Pan, T., An Optimal Control Approach to Identify the Worst-Case Cascading Failures in Power Systems; TCNS June 2020 956-966

Zhang, D., see Hong, H., TCNS March 2020 42-52

Zhang, D., Tang, Y., Zhang, W., and Wu, X., Hierarchical Design for Position-Based Formation Control of Rotorcraft-Like Aerial Vehicles; TCNS Dec. 2020 1789-1800

Zhang, H., see Zhai, C., TCNS June 2020 956-966

Zhang, H., see Liang, X., TCNS Sept. 2020 1355-1365

Zhang, M., Zheng, Z., and Shroff, N.B., Defending Against Stealthy Attacks on Multiple Nodes With Limited Resources: A Game-Theoretic Analysis; TCNS Dec. 2020 1665-1677

Zhang, P., see Zhang, Z., TCNS March 2020 516-528

Zhang, R., and Venkitasubramaniam, P., False Data Injection and Detection in LQG Systems: A Game Theoretic Approach; TCNS March 2020 338-348

Zhang, R.Y., see Ouyang, Y., TCNS Sept. 2020 1176-1187

Zhang, W., see Wang, Y., TCNS Dec. 2020 1746-1756

Zhang, W., see Zhang, D., TCNS Dec. 2020 1789-1800

Zhang, Y., Sun, L., and Hu, G., Distributed Consensus-Based Multitarget Filtering and Its Application in Formation-Containment Control; TCNS March 2020 503-515

Zhang, Y., and Cortes, J., Distributed Bilayered Control for Transient Frequency Safety and System Stability in Power Grids; TCNS Sept. 2020 1476-1488 **Zhang, Z.,** Leifeld, T., and Zhang, P., Reconstructibility Analysis and Observer Design for Boolean Control Networks; *TCNS March* 2020 516-528

Zhao, G., Hua, C., and Guan, X., A Hybrid Event-Triggered Approach to Consensus of Multiagent Systems With Disturbances; TCNS Sept. 2020 1259-1271

Zhao, H., Dai, X., Zhou, P., and Yang, T., Distributed Robust Event-Triggered Control Strategy for Multiple High-Speed Trains With Communication Delays and Input Constraints; TCNS Sept. 2020 1453-1464

Zhao, M., see Wang, Y., TCNS June 2020 545-557

Zhao, S., see Li, X., TCNS March 2020 245-253

Zhao, S., Zou, Y., Lin, X., Aliprantis, D., Pico, H.N.V., Chen, M., and Castillo, A., Leveraging Generators With Complementary Capabilities for Robust Multistage Power Grid Operations; TCNS Sept. 2020 1441-1452

Zheng, W.X., see Hu, H., TCNS June 2020 783-796

Zheng, Y., Kamgarpour, M., Sootla, A., and Papachristodoulou, A., Distributed Design for Decentralized Control Using Chordal Decomposition and ADMM; TCNS June 2020 614-626

Zheng, Y., see Furieri, L., TCNS Dec. 2020 1836-1847

Zheng, Z., see Zhang, M., TCNS Dec. 2020 1665-1677

Zholbaryssov, M., and Dominguez-Garcia, A.D., Convex Relaxations of the Network Flow Problem Under Cycle Constraints; TCNS March 2020 64-73

Zhou, N., see Wang, Y., TCNS June 2020 545-557

Zhou, P., see Zhao, H., TCNS Sept. 2020 1453-1464

Zhu, Q., see Huang, Y., TCNS June 2020 944-955

Zhu, Q., see Chen, J., TCNS March 2020 398-409

Zhu, Q., see Chen, J., TCNS Sept. 2020 1056-1068

Zhu, S., see Lin, L., TCNS Dec. 2020 1859-1869

Zhu, S., Lu, J., Huang, T., and Liu, Y., Output Robustness of Probabilistic Boolean Control Networks With Respect to One-Bit Perturbation; TCNS Dec. 2020 1769-1777

Zhuang, Y., and Yagan, O., Multistage Complex Contagions in Random Multiplex Networks; TCNS March 2020 410-421

Zino, L., Rizzo, A., and Porfiri, M., Consensus Over Activity-Driven Networks; TCNS June 2020 866-877

Zorzi, M., Distributed Kalman Filtering Under Model Uncertainty; TCNS June 2020 990-1001

Zou, Y., see Zhao, S., TCNS Sept. 2020 1441-1452

SUBJECT INDEX

Numeric

5G mobile communication

Globally Stable Delay Alignment for Feedback Control Over Wireless Multipoint Connections. Wigren, T., +, TCNS Dec. 2020 1633-1642

A

Active disturbance rejection control

Dynamic NE Seeking for Multi-Integrator Networked Agents With Disturbance Rejection. *Romano, A.R.*, +, *TCNS March 2020 129-139*

Actuators

A Linear Active Disturbance Rejection Control Approach to Position Synchronization Control for Networked Interconnected Motion System. *Wang*, *Y*, +, *TCNS Dec. 2020 1746-1756*

Distributed Resilient Observer-Based Fault-Tolerant Control for Heterogeneous Multiagent Systems Under Actuator Faults and DoS Attacks. *Deng, C.*, +, *TCNS Sept. 2020 1308-1318*

Adaptation models

Adaptive Secure State Estimation for Cyber-Physical Systems With Low Memory Cost. An, L., +, TCNS Dec. 2020 1621-1632

Defending Against Stealthy Attacks on Multiple Nodes With Limited Resources: A Game-Theoretic Analysis. *Zhang, M.*, +, *TCNS Dec. 2020 1665-1677*

Adaptive control

Adaptive Protocol Design For Distributed Tracking With Relative Output Information: A Distributed Fixed-Time Observer Approach. Lv, Y, +, TCNS March 2020 118-128

Collective Behavior of Heterogeneous Agents in Uncertain Cooperation— Competition Networks: A Nussbaum-Type Function Based Approach. *Hu*, *H.*, +, *TCNS June 2020 783-796*

Consensus Disturbance Rejection for Linear Multiagent Systems With Directed Switching Communication Topologies. Wang, P., +, TCNS March 2020 254-265

Distributed Adaptive Time-Varying Group Formation Tracking for Multiagent Systems With Multiple Leaders on Directed Graphs. *Hu*, *J.*, +, *TCNS March* 2020 140-150

Distributed Consensus for Multiple Lagrangian Systems With Parametric Uncertainties and External Disturbances Under Directed Graphs. *Mei, J., TCNS June 2020 648-659*

Distributed Resilient Observer-Based Fault-Tolerant Control for Heterogeneous Multiagent Systems Under Actuator Faults and DoS Attacks. *Deng*, *C.*, +, *TCNS Sept. 2020 1308-1318*

Fully Distributed Consensus Control for Linear Multiagent Systems: A Reduced-Order Adaptive Feedback Approach. *Li*, *X*., +, *TCNS June 2020* 967-976

On Consensus of Multiagent Systems With Input Saturation: Fully Distributed Adaptive Antiwindup Protocol Design Approach. Lv, Y, +, TCNS Sept. 2020 1127-1139

Aerodynamics

Performance and Design of Consensus on Matrix-Weighted and Time-Scaled Graphs. Foight, D.R., +, TCNS Dec. 2020 1812-1822

Air traffic control

Physics-Based Freely Scalable Continuum Deformation for UAS Traffic Coordination. Rastgoftar, H., +, TCNS June 2020 532-544

Aircraft

Hierarchical Design for Position-Based Formation Control of Rotorcraft-Like Aerial Vehicles. Zhang, D., +, TCNS Dec. 2020 1789-1800

Aircraft control

Motion Capability Analysis for Multiple Fixed-Wing UAV Formations With Speed and Heading Rate Constraints. *Wang, Y.*, +, *TCNS June 2020 977-989*

Aircraft navigation

Physics-Based Freely Scalable Continuum Deformation for UAS Traffic Coordination. Rastgoftar, H., +, TCNS June 2020 532-544

Analytical models

Cascading Attacks on Wi-Fi Networks: Theory and Experiments. Xin, L., +, TCNS Dec. 2020 1757-1768

Mixed Autonomy in Ride-Sharing Networks. Wei, Q., +, TCNS Dec. 2020 1940-1950

Angular velocity

Hierarchical Design for Position-Based Formation Control of Rotorcraft-Like Aerial Vehicles. *Zhang, D., +, TCNS Dec. 2020 1789-1800*

Approximation theory

Combinatorial Optimization of AC Optimal Power Flow With Discrete Demands in Radial Networks. *Khonji, M.*, +, *TCNS June 2020 887-898*

Convex Relaxations of the Network Flow Problem Under Cycle Constraints. Zholbaryssov, M., +, TCNS March 2020 64-73

Distributed Stopping Criterion for Consensus in the Presence of Delays. Prakash, M., +, TCNS March 2020 85-95

Distributed Submodular Minimization and Motion Planning Over Discrete State Space. *Jaleel, H.*, +, *TCNS June 2020 932-943*

Extremum Seeking Control With Sporadic Packet Transmission for Networked Control Systems. *Premaratne, U.*, +, *TCNS June 2020 758-769*

Generalized Convex Hull Pricing for the AC Optimal Power Flow Problem. Garcia, M., +, TCNS Sept. 2020 1500-1510

Learning Optimal Scheduling Policy for Remote State Estimation Under Uncertain Channel Condition. Wu, S., +, TCNS June 2020 579-591

Min-Max Tours and Paths for Task Allocation to Heterogeneous Agents. Prasad, A., +, TCNS Sept. 2020 1511-1522

Online Optimization as a Feedback Controller: Stability and Tracking. Colombino, M., +, TCNS March 2020 422-432 Sensor Placement for Optimal Control of Infinite-Dimensional Systems. Hou, Q., +, TCNS March 2020 360-371

Artificial neural networks

Redefined Reconstructibility and State Estimation for Boolean Networks. Yang, J., +, TCNS Dec. 2020 1882-1890

Asymptotic stability

Controlling Parent Systems Through Swarms Using Abstraction. Crandall, K.L., +, TCNS March 2020 210-220

Distributed Bilayered Control for Transient Frequency Safety and System Stability in Power Grids. *Zhang, Y.*, +, *TCNS Sept. 2020 1476-1488*

Global Synchronization of Sampled-Data Invariant Systems on Exponential Lie Groups. *McCarthy, P.J.*, +, *TCNS Sept. 2020 1080-1089*

Online Optimization as a Feedback Controller: Stability and Tracking. Colombino, M., +, TCNS March 2020 422-432

Stability Conditions for Cluster Synchronization in Networks of Heterogeneous Kuramoto Oscillators. *Menara*, T., +, TCNS March 2020 302-314

Stabilizing Scheduling Policies for Networked Control Systems. *Kundu, A.*, +, *TCNS March 2020 163-175*

Attitude control

Hierarchical Design for Position-Based Formation Control of Rotorcraft-Like Aerial Vehicles. *Zhang, D.*, +, *TCNS Dec. 2020 1789-1800*

Robust Formation Tracking Control for Multiple Quadrotors Subject to Switching Topologies. *Liu, H., +, TCNS Sept. 2020 1319-1329*

Automobiles

How Will the Presence of Autonomous Vehicles Affect the Equilibrium State of Traffic Networks?. *Mehr, N.*, +, *TCNS March 2020 96-105*

Autonomous aerial vehicles

Distributed Data Fusion for On-Scene Signal Sensing With a Multi-UAV System. Du, B., +, TCNS Sept. 2020 1330-1341

Motion Capability Analysis for Multiple Fixed-Wing UAV Formations With Speed and Heading Rate Constraints. *Wang, Y.*, +, *TCNS June 2020 977-989*

Physics-Based Freely Scalable Continuum Deformation for UAS Traffic Coordination. *Rastgoftar, H.*, +, *TCNS June 2020 532-544*

Autonomous systems

Barrier Function Based Collaborative Control of Multiple Robots Under Signal Temporal Logic Tasks. *Lindemann*, L., +, TCNS Dec. 2020 1916-1928

Autonomous vehicles

Mixed Autonomy in Ride-Sharing Networks. Wei, Q., +, TCNS Dec. 2020 1940-1950

В

Battery powered vehicles

On the Interaction Between Autonomous Mobility-on-Demand Systems and the Power Network: Models and Coordination Algorithms. *Rossi, F.*, +, *TCNS March 2020 384-397*

Bayes methods

Bayesian Graphical Games for Synchronization in Networks of Dynamical Systems. *Lopez, V.G.*, +, *TCNS June 2020 1028-1039*

Data-Driven I/O Structure Learning With Contemporaneous Causality. Costanzo, J.A.W.B., +, TCNS Dec. 2020 1929-1939

Biological system modeling

Behavioral and Game-Theoretic Security Investments in Interdependent Systems Modeled by Attack Graphs. *Abdallah, M.*, +, *TCNS Dec. 2020 1585-1596*

Sampled-Data Set Stabilization of Impulsive Boolean Networks Based on a Hybrid Index Model. *Lin, L., +, TCNS Dec. 2020 1859-1869*

Boolean algebra

Reconstructibility Analysis and Observer Design for Boolean Control Networks. Zhang, Z., +, TCNS March 2020 516-528

Boolean functions

Output Robustness of Probabilistic Boolean Control Networks With Respect to One-Bit Perturbation. Zhu, S., +, TCNS Dec. 2020 1769-1777

Reconstructibility Analysis and Observer Design for Boolean Control Networks. Zhang, Z., +, TCNS March 2020 516-528

The Outputs Robustness of Boolean Control Networks via Pinning Control. Li, B., +, TCNS March 2020 201-209 \mathbf{C}

Cache storage

Optimal Energy Consumption for Communication, Computation, Caching, and Quality Guarantee. *Zafari*, F., +, TCNS March 2020 151-162

Cellular radio

A Mean Field Game Approach to Scheduling in Cellular Systems. *Man-jrekar, M.*, +, *TCNS June 2020 568-578*

Optimal Secure Two-Layer IoT Network Design. Chen, J., +, TCNS March 2020 398-409

Channel estimation

Optimal Scheduling of Multiple Sensors Over Lossy and Bandwidth Limited Channels. Wu, S., +, TCNS Sept. 2020 1188-1200

Closed loop systems

A Hybrid Event-Triggered Approach to Consensus of Multiagent Systems With Disturbances. *Zhao, G.*, +, *TCNS Sept. 2020 1259-1271*

Dissipativity-Based Asynchronous Repetitive Control for Networked Markovian Jump Systems: 2-D System Approach. *Liu*, *X*., +, *TCNS Sept. 2020* 1212-1224

Distributed Networked Controller Design for Large-Scale Systems Under Round-Robin Communication Protocol. Yu, T., +, TCNS Sept. 2020 1201-1211

Online Optimization as a Feedback Controller: Stability and Tracking. Colombino, M., +, TCNS March 2020 422-432

Output-Based Periodic Event-Triggered Control for Nonlinear Plants: An Approximate-Model Method. Yu, H., +, TCNS Sept. 2020 1342-1354

Scalable Consensus in Networks of Multiagent Systems Using High-Gain Observers. Chowdhury, D., +, TCNS Sept. 2020 1237-1247

Sparsity Invariance for Convex Design of Distributed Controllers. *Furieri*, L., +, *TCNS Dec. 2020 1836-1847*

Cloud computing

Consensus of Multiagent Systems Via Asynchronous Cloud Communication. Bowman, S.L., +, TCNS June 2020 627-637

Optimal Secure Two-Layer IoT Network Design. Chen, J., +, TCNS March 2020 398-409

Collision avoidance

Collision-Free Trajectory Design for 2-D Persistent Monitoring Using Second-Order Agents. Wang, Y., +, TCNS June 2020 545-557

Distributed Submodular Minimization and Motion Planning Over Discrete State Space. *Jaleel, H.*, +, *TCNS June 2020 932-943*

Physics-Based Freely Scalable Continuum Deformation for UAS Traffic Coordination. *Rastgoftar, H.*, +, *TCNS June 2020 532-544*

Combinatorial mathematics

Combinatorial Optimization of AC Optimal Power Flow With Discrete Demands in Radial Networks. *Khonji*, M., +, TCNS June 2020 887-898

Distributed Submodular Minimization and Motion Planning Over Discrete State Space. *Jaleel, H.*, +, *TCNS June 2020 932-943*

Combined source-channel coding

Two-Way Gaussian Networks With a Jammer and Decentralized Control. McDonald, C., +, TCNS March 2020 446-457

Communication networks

Joint Cross-Layer Optimization in Real-Time Networked Control Systems. Klugel, M., +, TCNS Dec. 2020 1903-1915

Communication systems

Cascading Attacks on Wi-Fi Networks: Theory and Experiments. Xin, L., +, TCNS Dec. 2020 1757-1768

Compensation

Distributed H_{∞} Estimation Resilient to Biasing Attacks. *Ugrinovskii*, V, TCNS March 2020 458-470

Complex networks

A Differential Game Approach to Decentralized Virus-Resistant Weight Adaptation Policy Over Complex Networks. *Huang, Y.*, +, *TCNS June* 2020 944-955

Consensus Over Activity-Driven Networks. Zino, L., +, TCNS June 2020

From Matrix-Weighted Consensus to Multipartite Average Consensus. Kwon, S., +, TCNS Dec. 2020 1609-1620 Multistage Complex Contagions in Random Multiplex Networks. *Zhuang*, *Y*, +, *TCNS March 2020 410-421*

On the Robustness of Complex Systems With Multipartitivity Structures Under Node Attacks. Cai, Q., +, TCNS March 2020 106-117

Pinning Controllability of k-Valued Logical Systems. Li, F., +, TCNS Sept. 2020 1523-1533

Stochastic Pinning Controllability of Noisy Complex Networks. *Rossa*, F.D., +, TCNS Dec. 2020 1678-1687

Complexity theory

Defending Against Stealthy Attacks on Multiple Nodes With Limited Resources: A Game-Theoretic Analysis. *Zhang, M.*, +, *TCNS Dec. 2020* 1665-1677

Compressed sensing

Distributed ℓ_1 -State-and-Fault Estimation for Multiagent Systems. Hashimoto, K., +, TCNS June 2020 699-710

Compressors

Natural Gas Flow Solvers Using Convex Relaxation. Singh, M.K., +, TCNS Sept. 2020 1283-1295

Computational complexity

Combinatorial Optimization of AC Optimal Power Flow With Discrete Demands in Radial Networks. *Khonji, M.*, +, *TCNS June 2020 887-898*

Decentralized Schemes With Overlap for Solving Graph-Structured Optimization Problems. *Shin, S.,* +, *TCNS Sept. 2020 1225-1236*

Distributed Submodular Minimization and Motion Planning Over Discrete State Space. *Jaleel, H.*, +, *TCNS June 2020 932-943*

Large-Scale Traffic Signal Offset Optimization. Ouyang, Y., +, TCNS Sept. 2020 1176-1187

Optimal Distributed Convex Optimization on Slowly Time-Varying Graphs. Rogozin, A., +, TCNS June 2020 829-841

Optimal Energy Consumption for Communication, Computation, Caching, and Quality Guarantee. Zafari, F., +, TCNS March 2020 151-162

Optimizing the Coherence of a Network of Networks. *Mackin, E.*, +, *TCNS Sept. 2020 1465-1475*

Sensor Network Localization via Alternating Rank Minimization Algorithms. Wan, C., +, TCNS June 2020 1040-1051

Target Control of Directed Networks based on Network Flow Problems. *Li*, *G*., +, *TCNS June 2020 673-685*

Time Decision for Multi-Input and Multi-Output Networked Control Systems. Wang, C., +, TCNS June 2020 558-567

Computational modeling

Model Reduction Based Approximation of the Output Controllability Gramian in Large-Scale Networks. *Casadei, G.*, +, *TCNS Dec. 2020 1778-1788*

Computer crime

Defending Against Stealthy Attacks on Multiple Nodes With Limited Resources: A Game-Theoretic Analysis. *Zhang, M.*, +, *TCNS Dec. 2020 1665-1677*

Computer network security

A Differential Game Approach to Decentralized Virus-Resistant Weight Adaptation Policy Over Complex Networks. *Huang, Y.*, +, *TCNS June* 2020 944-955

On the Robustness of Complex Systems With Multipartitivity Structures Under Node Attacks. *Cai, Q.*, +, *TCNS March 2020 106-117*

Optimal Secure Two-Layer IoT Network Design. Chen, J., +, TCNS March 2020 398-409

Computer networks

An Online Mechanism for Resource Allocation in Networks. Pu, S., +, TCNS Sept. 2020 1140-1150

Computer security

Resilient Containment Control in Adversarial Environment. Yan, J., +, TCNS Dec. 2020 1951-1959

Computer viruses

A Differential Game Approach to Decentralized Virus-Resistant Weight Adaptation Policy Over Complex Networks. *Huang, Y.*, +, *TCNS June* 2020 944-955

Concave programming

Convex Relaxations of the Network Flow Problem Under Cycle Constraints. Zholbaryssov, M., +, TCNS March 2020 64-73

- Optimal Energy Consumption for Communication, Computation, Caching, and Quality Guarantee. *Zafari*, F., +, TCNS March 2020 151-162
- Optimal Scheduling of Water Distribution Systems. Singh, M.K., +, TCNS June 2020 711-723
- Range-Based Coordinate Alignment for Cooperative Mobile Sensor Network Localization. You, K., +, TCNS Sept. 2020 1379-1390
- Receding Horizon Control for Drinking Water Networks: The Case for Geometric Programming. Wang, S., +, TCNS Sept. 2020 1151-1163
- Sensor Network Localization via Alternating Rank Minimization Algorithms. Wan, C., +, TCNS June 2020 1040-1051

Continuous time systems

- An Optimization-Based Cooperative Path-Following Framework for Multiple Robotic Vehicles. *Alessandretti*, A., +, TCNS June 2020 1002-1014
- Bayesian Graphical Games for Synchronization in Networks of Dynamical Systems. *Lopez, V.G.*, +, *TCNS June 2020 1028-1039*
- Continuous-Time Optimization Dynamics Mirroring ADMM Architecture and Passivity-Based Robustification Against Delays. *Miyano*, *T.*, +, *TCNS Sept.* 2020 1296-1307
- Distributed Continuous-Time Nonsmooth Convex Optimization With Coupled Inequality Constraints. *Li*, *X*., +, *TCNS March 2020 74-84*
- Distributed Convex Optimization on State-Dependent Undirected Graphs: Homogeneity Technique. *Hong, H.*, +, *TCNS March 2020 42-52*
- Finite-Time Distributed Convex Optimization for Continuous-Time Multiagent Systems With Disturbance Rejection. Feng, Z., +, TCNS June 2020 686-698
- Global Synchronization of Sampled-Data Invariant Systems on Exponential Lie Groups. *McCarthy, P.J.*, +, *TCNS Sept. 2020 1080-1089*
- Online Optimization as a Feedback Controller: Stability and Tracking. Colombino, M., +, TCNS March 2020 422-432

Control engineering computing

Stochastic Defense Against Complex Grid Attacks. Bienstock, D., +, TCNS June 2020 842-854

Control nonlinearities

Adaptive Protocol Design For Distributed Tracking With Relative Output Information: A Distributed Fixed-Time Observer Approach. Lv, Y, +, TCNS March 2020 118-128

Control system security

Resilient Consensus Through Event-Based Communication. Wang, Y., +, TCNS March 2020 471-482

Control system synthesis

- A Flexible Synthesis Framework of Structured Controllers for Networked Systems. *Rosinger, C.A.*, +, *TCNS March 2020 6-18*
- A Hybrid Event-Triggered Approach to Consensus of Multiagent Systems With Disturbances. *Zhao, G.*, +, *TCNS Sept. 2020 1259-1271*
- Adaptive Protocol Design For Distributed Tracking With Relative Output Information: A Distributed Fixed-Time Observer Approach. Lv, Y, +, TCNS March 2020 118-128
- An Optimization-Based Cooperative Path-Following Framework for Multiple Robotic Vehicles. Alessandretti, A., +, TCNS June 2020 1002-1014
- Collective Behavior of Heterogeneous Agents in Uncertain Cooperation— Competition Networks: A Nussbaum-Type Function Based Approach. *Hu*, *H.*, +, *TCNS June 2020 783-796*
- Controlling Parent Systems Through Swarms Using Abstraction. Crandall, K.L., +, TCNS March 2020 210-220
- Dissipativity-Based Asynchronous Repetitive Control for Networked Markovian Jump Systems: 2-D System Approach. *Liu, X.*, +, *TCNS Sept. 2020 1212-1224*
- Distributed Consensus for Multiple Lagrangian Systems With Parametric Uncertainties and External Disturbances Under Directed Graphs. *Mei, J., TCNS June 2020 648-659*
- Distributed Design for Decentralized Control Using Chordal Decomposition and ADMM. Zheng, Y., +, TCNS June 2020 614-626
- Distributed Fault-Tolerant Control of Large-Scale Systems: An Active Fault Diagnosis Approach. *Boem, F., +, TCNS March 2020 288-301*
- Distributed Networked Controller Design for Large-Scale Systems Under Round-Robin Communication Protocol. Yu, T., +, TCNS Sept. 2020 1201-1211

- Distributed Resilient Observer-Based Fault-Tolerant Control for Heterogeneous Multiagent Systems Under Actuator Faults and DoS Attacks. *Deng, C.*, +, *TCNS Sept. 2020 1308-1318*
- Distributed Robust Event-Triggered Control Strategy for Multiple High-Speed Trains With Communication Delays and Input Constraints. *Zhao*, H., +, TCNS Sept. 2020 1453-1464
- Extremum Seeking Control With Sporadic Packet Transmission for Networked Control Systems. *Premaratne*, U., +, TCNS June 2020 758-769
- From Dissipativity Theory to Compositional Abstractions of Interconnected Stochastic Hybrid Systems. Awan, A.U., +, TCNS March 2020 433-445
- Global Synchronization of Sampled-Data Invariant Systems on Exponential Lie Groups. McCarthy, P.J., +, TCNS Sept. 2020 1080-1089
- Motion Capability Analysis for Multiple Fixed-Wing UAV Formations With Speed and Heading Rate Constraints. *Wang, Y.*, +, *TCNS June 2020 977-080*
- Network Design for Controllability Metrics. Becker, C.O., +, TCNS Sept. 2020 1404-1415
- On Consensus of Multiagent Systems With Input Saturation: Fully Distributed Adaptive Antiwindup Protocol Design Approach. Lv, Y, +, TCNS Sept. 2020 1127-1139
- Online Optimization as a Feedback Controller: Stability and Tracking. Colombino, M., +, TCNS March 2020 422-432
- Optimal Control and Stabilization for Networked Control Systems With Asymmetric Information. *Liang, X.*, +, *TCNS Sept. 2020 1355-1365*
- Output-Based Periodic Event-Triggered Control for Nonlinear Plants: An Approximate-Model Method. Yu, H., +, TCNS Sept. 2020 1342-1354
- Pinning Controllability of k-Valued Logical Systems. Li, F., +, TCNS Sept. 2020 1523-1533
- Robust Formation Tracking Control for Multiple Quadrotors Subject to Switching Topologies. *Liu*, H., +, TCNS Sept. 2020 1319-1329
- Robust Stabilization of Input-Affine Nonlinear Systems Under Network Constraints. *Ghodrat, M.*, +, *TCNS June 2020 818-828*
- Sensor Placement for Optimal Control of Infinite-Dimensional Systems. Hou, Q., +, TCNS March 2020 360-371
- Stabilizing Scheduling Policies for Networked Control Systems. *Kundu, A.*, +, *TCNS March 2020 163-175*
- Time Decision for Multi-Input and Multi-Output Networked Control Systems. Wang, C., +, TCNS June 2020 558-567

Control systems

- Adaptive Secure State Estimation for Cyber-Physical Systems With Low Memory Cost. An, L., +, TCNS Dec. 2020 1621-1632
- Average State Estimation in Large-Scale Clustered Network Systems. *Niazi, M.U.B.*, +, *TCNS Dec. 2020 1736-1745*
- Defending Against Stealthy Attacks on Multiple Nodes With Limited Resources: A Game-Theoretic Analysis. *Zhang, M.*, +, *TCNS Dec. 2020 1665-1677*
- Explicit Characterization of Performance of a Class of Networked Linear Control Systems. *Mousavi, H.K.*, +, *TCNS Dec. 2020 1688-1699*
- Globally Stable Delay Alignment for Feedback Control Over Wireless Multipoint Connections. Wigren, T., +, TCNS Dec. 2020 1633-1642
- Output Robustness of Probabilistic Boolean Control Networks With Respect to One-Bit Perturbation. Zhu, S., +, TCNS Dec. 2020 1769-1777
- Performance and Design of Consensus on Matrix-Weighted and Time-Scaled Graphs. Foight, D.R., +, TCNS Dec. 2020 1812-1822
- Resilient Sensor Placement for Kalman Filtering in Networked Systems: Complexity and Algorithms. *Ye, L.*, +, *TCNS Dec. 2020 1870-1881*

Controllability

- Comment on "Detecting Topology Variations in Networks of Linear Dynamical Systems". Roy, S., +, TCNS March 2020 187-188
- Controllability of Directed Networked MIMO Systems With Heterogeneous Dynamics. *Xiang, L.*, +, *TCNS June 2020 807-817*
- Generic Controllability of Networks With Identical SISO Dynamical Nodes. Commault, C., +, TCNS June 2020 855-865
- Model Reduction Based Approximation of the Output Controllability Gramian in Large-Scale Networks. Casadei, G., +, TCNS Dec. 2020 1778-1788
- Network Design for Controllability Metrics. Becker, C.O., +, TCNS Sept. 2020 1404-1415

Optimal Network Topology Design in Composite Systems for Structural Controllability. *Moothedath, S., +, TCNS Sept. 2020 1164-1175*

Stochastic Pinning Controllability of Noisy Complex Networks. *Rossa, F.D.*, +, *TCNS Dec.* 2020 1678-1687

Tradeoff Between Controllability and Robustness in Diffusively Coupled Networks. *Abbas, W.*, +, *TCNS Dec. 2020 1891-1902*

Controllers

Controlling Parent Systems Through Swarms Using Abstraction. Crandall, K.L., +, TCNS March 2020 210-220

Convergence

Asynchronous Distributed Power Control of Multimicrogrid Systems. *Wang*, Z., +, TCNS Dec. 2020 1960-1973

Convergence Analysis of Signed Nonlinear Networks. Chen, H., +, TCNS March 2020 189-200

Decomposition of Nonconvex Optimization via Bi-Level Distributed ALA-DIN. Engelmann, A., +, TCNS Dec. 2020 1848-1858

Distributed Formation Control of Mobile Agents via Global Orientation Estimation. Van Tran. O., +, TCNS Dec. 2020 1654-1664

Distributed Inference of the Multiplex Network Topology of Complex Systems. Lombana, D.A.B., +, TCNS March 2020 278-287

Distributed Stopping Criterion for Consensus in the Presence of Delays. Prakash, M., +, TCNS March 2020 85-95

Globally Convergent Distributed Network Localization Using Locally Measured Bearings. *Li*, *X*., +, *TCNS March 2020 245-253*

Relaxed Schrödinger Bridges and Robust Network Routing. Chen, Y., +, TCNS June 2020 923-931

Stochastic Pinning Controllability of Noisy Complex Networks. *Rossa, F.D.*, +, *TCNS Dec. 2020 1678-1687*

Convergence of numerical methods

Distributed Continuous-Time Nonsmooth Convex Optimization With Coupled Inequality Constraints. *Li*, *X*., +, *TCNS March 2020 74-84*

Scalable Consensus in Networks of Multiagent Systems Using High-Gain Observers. Chowdhury, D., +, TCNS Sept. 2020 1237-1247

Convex functions

Decomposition of Nonconvex Optimization via Bi-Level Distributed ALA-DIN. Engelmann, A., +, TCNS Dec. 2020 1848-1858

Convex programming

Combinatorial Optimization of AC Optimal Power Flow With Discrete Demands in Radial Networks. *Khonji*, M., +, TCNS June 2020 887-898

Continuous-Time Optimization Dynamics Mirroring ADMM Architecture and Passivity-Based Robustification Against Delays. *Miyano*, *T.*, +, *TCNS Sept. 2020 1296-1307*

Convex Relaxations of the Network Flow Problem Under Cycle Constraints. Zholbaryssov, M., +, TCNS March 2020 64-73

Distributed Continuous-Time Nonsmooth Convex Optimization With Coupled Inequality Constraints. *Li*, X., +, *TCNS March 2020 74-84*

Distributed Convex Optimization on State-Dependent Undirected Graphs: Homogeneity Technique. *Hong, H.*, +, *TCNS March 2020 42-52*

Distributed Design for Decentralized Control Using Chordal Decomposition and ADMM. *Zheng, Y.*, +, *TCNS June 2020 614-626*

Distributed Submodular Minimization and Motion Planning Over Discrete State Space. *Jaleel, H.*, +, *TCNS June 2020 932-943*

Estimating the Impact of Cyber-Attack Strategies for Stochastic Networked Control Systems. *Milosevic, J., +, TCNS June 2020 747-757*

Finite-Time Distributed Convex Optimization for Continuous-Time Multiagent Systems With Disturbance Rejection. Feng, Z., +, TCNS June 2020 686-698

Generalized Convex Hull Pricing for the AC Optimal Power Flow Problem. Garcia, M., +, TCNS Sept. 2020 1500-1510

Large-Scale Traffic Signal Offset Optimization. Ouyang, Y., +, TCNS Sept. 2020 1176-1187

Leveraging Generators With Complementary Capabilities for Robust Multistage Power Grid Operations. Zhao, S., +, TCNS Sept. 2020 1441-1452

Natural Gas Flow Solvers Using Convex Relaxation. Singh, M.K., +, TCNS Sept. 2020 1283-1295

Network Design for Controllability Metrics. Becker, C.O., +, TCNS Sept. 2020 1404-1415

Observation-Driven Scheduling for Remote Estimation of Two Gaussian Random Variables. *Vasconcelos, M.M.*, +, *TCNS March 2020 232-244*

Online Optimization as a Feedback Controller: Stability and Tracking. Colombino, M., +, TCNS March 2020 422-432

Optimal Distributed Convex Optimization on Slowly Time-Varying Graphs. *Rogozin, A.*, +, *TCNS June 2020 829-841*

Optimal Scheduling of Water Distribution Systems. Singh, M.K., +, TCNS June 2020 711-723

Privacy-Preserving Distributed Online Optimization Over Unbalanced Digraphs via Subgradient Rescaling. *Xiong, Y.*, +, *TCNS Sept. 2020 1366-1378*

Receding Horizon Control for Drinking Water Networks: The Case for Geometric Programming. Wang, S., +, TCNS Sept. 2020 1151-1163

Cooperative communication

Range-Based Coordinate Alignment for Cooperative Mobile Sensor Network Localization. You, K., +, TCNS Sept. 2020 1379-1390

Cost function

Distributed Continuous-Time Algorithms for Optimal Resource Allocation With Time-Varying Quadratic Cost Functions. Wang, B., +, TCNS Dec. 2020 1974-1984

Simultaneous Facility Location and Path Optimization in Static and Dynamic Networks. *Srivastava, A.*, +, *TCNS Dec. 2020 1700-1711*

Couplings

A Linear Active Disturbance Rejection Control Approach to Position Synchronization Control for Networked Interconnected Motion System. *Wang*, Y, +, TCNS Dec. 2020 1746-1756

Cascading Attacks on Wi-Fi Networks: Theory and Experiments. Xin, L., +, TCNS Dec. 2020 1757-1768

Tradeoff Between Controllability and Robustness in Diffusively Coupled Networks. *Abbas, W.*, +, *TCNS Dec. 2020 1891-1902*

Covariance analysis

A Stability Analysis Framework for Multiantenna Multisensor Cyber-Physical Systems With Rank-Deficient Measurement Matrices. *Cai*, *S.*, +, *TCNS March* 2020 30-41

Covariance matrices

Distributed Relative Localization Using the Multidimensional Weighted Centroid. Aragues, R., +, TCNS Sept. 2020 1272-1282

Stochastic Defense Against Complex Grid Attacks. *Bienstock, D.*, +, *TCNS June 2020 842-854*

Time-Difference-of-Arrival (TDOA)-Based Distributed Target Localization by A Robotic Network. *Ennasr, O.*, +, *TCNS Sept. 2020 1416-1427*

Crowdsourcing

Truthful Data Quality Elicitation for Quality-Aware Data Crowdsourcing. Gong, X., +, TCNS March 2020 326-337

Customer services

On the Interaction Between Autonomous Mobility-on-Demand Systems and the Power Network: Models and Coordination Algorithms. *Rossi, F.*, +, *TCNS March 2020 384-397*

Cyber-physical systems

A Stability Analysis Framework for Multiantenna Multisensor Cyber-Physical Systems With Rank-Deficient Measurement Matrices. *Cai*, *S.*, +, *TCNS March 2020 30-41*

Behavioral and Game-Theoretic Security Investments in Interdependent Systems Modeled by Attack Graphs. *Abdallah, M.*, +, *TCNS Dec. 2020 1585-1596*

False Data Injection and Detection in LQG Systems: A Game Theoretic Approach. Zhang, R., +, TCNS March 2020 338-348

Mixed Autonomy in Ride-Sharing Networks. Wei, Q., +, TCNS Dec. 2020 1940-1950

Security Against False Data-Injection Attack in Cyber-Physical Systems. Chattopadhyay, A., +, TCNS June 2020 1015-1027

D

Damping

Performance Measures in Electric Power Networks Under Line Contingencies. Coletta, T., +, TCNS March 2020 221-231

Data communication

A Novel Fault Detection Method Under Weighted Try-Once-Discard Scheduling Over Sensor Networks. Ju, Y, +, TCNS Sept. 2020 1489-1499

Optimal Energy Consumption for Communication, Computation, Caching, and Quality Guarantee. Zafari, F., +, TCNS March 2020 151-162

Data compression

Optimal Energy Consumption for Communication, Computation, Caching, and Quality Guarantee. *Zafari, F., +, TCNS March 2020 151-162*

Data handling

Truthful Data Quality Elicitation for Quality-Aware Data Crowdsourcing. Gong, X., +, TCNS March 2020 326-337

Data privacy

Decentralized Schemes With Overlap for Solving Graph-Structured Optimization Problems. Shin, S., +, TCNS Sept. 2020 1225-1236

Differential Privacy for Network Identification. Katewa, V., +, TCNS March 2020 266-277

Privacy-Preserving Distributed Online Optimization Over Unbalanced Digraphs via Subgradient Rescaling. *Xiong, Y.*, +, *TCNS Sept. 2020 1366-1378*

Truthful Data Quality Elicitation for Quality-Aware Data Crowdsourcing. Gong, X., +, TCNS March 2020 326-337

Decentralized control

A Hybrid Event-Triggered Approach to Consensus of Multiagent Systems With Disturbances. *Zhao, G.*, +, *TCNS Sept. 2020 1259-1271*

Clique-Based Distributed PI Control for Multiagent Coordination With Heterogeneous, Uncertain, Time-Varying Orientations. Sakurama, K., TCNS Dec. 2020 1712-1722

Communication-Delay-Dependent Rendezvous With Possible Negative Controller Gain in Cyclic Pursuit. De, S., +, TCNS Sept. 2020 1069-1079

Distributed Design for Decentralized Control Using Chordal Decomposition and ADMM. Zheng, Y, +, TCNS June 2020 614-626

Distributed Formation Control of Mobile Agents via Global Orientation Estimation. *Van Tran, Q.*, +, *TCNS Dec. 2020 1654-1664*

Secondary Frequency Control With On–Off Load Side Participation in Power Networks. Kasis, A., +, TCNS June 2020 603-613

Two-Way Gaussian Networks With a Jammer and Decentralized Control. McDonald, C., +, TCNS March 2020 446-457

Decision making

Behavioral and Game-Theoretic Security Investments in Interdependent Systems Modeled by Attack Graphs. *Abdallah, M.*, +, *TCNS Dec. 2020 1585-1596*

Control of Multilayer Mobile Autonomous Systems in Adversarial Environments: A Games-in-Games Approach. Chen, J., +, TCNS Sept. 2020 1056-1068

Delay effects

Asynchronous Distributed Power Control of Multimicrogrid Systems. *Wang*, Z., +, *TCNS Dec. 2020 1960-1973*

Delays

A Flexible Synthesis Framework of Structured Controllers for Networked Systems. *Rosinger, C.A.*, +, *TCNS March 2020 6-18*

A Linear Active Disturbance Rejection Control Approach to Position Synchronization Control for Networked Interconnected Motion System. *Wang*, *Y*, +, *TCNS Dec. 2020 1746-1756*

Communication-Delay-Dependent Rendezvous With Possible Negative Controller Gain in Cyclic Pursuit. De, S., +, TCNS Sept. 2020 1069-1079

Continuous-Time Optimization Dynamics Mirroring ADMM Architecture and Passivity-Based Robustification Against Delays. *Miyano, T.*, +, *TCNS Sept. 2020 1296-1307*

Dissipativity-Based Asynchronous Repetitive Control for Networked Markovian Jump Systems: 2-D System Approach. *Liu, X., +, TCNS Sept. 2020 1212-1224*

Distributed Networked Controller Design for Large-Scale Systems Under Round-Robin Communication Protocol. Yu, T., +, TCNS Sept. 2020 1201-1211

Distributed Robust Event-Triggered Control Strategy for Multiple High-Speed Trains With Communication Delays and Input Constraints. *Zhao*, H., +, TCNS Sept. 2020 1453-1464 Distributed Stopping Criterion for Consensus in the Presence of Delays. Prakash, M., +, TCNS March 2020 85-95

Globally Stable Delay Alignment for Feedback Control Over Wireless Multipoint Connections. Wigren, T., +, TCNS Dec. 2020 1633-1642

Joint Cross-Layer Optimization in Real-Time Networked Control Systems. Klugel, M., +, TCNS Dec. 2020 1903-1915

State Estimation of Multichannel Networked Discrete Event Systems. *Lin*, F., +, TCNS March 2020 53-63

Time Decision for Multi-Input and Multi-Output Networked Control Systems. Wang, C., +, TCNS June 2020 558-567

Verification of Delay Co-Observability for Discrete Event Systems. Xu, P., +, TCNS March 2020 176-186

Difference equations

Optimal Control and Stabilization for Networked Control Systems With Asymmetric Information. *Liang, X.*, +, *TCNS Sept. 2020 1355-1365*

Differential equations

Stochastic Pinning Controllability of Noisy Complex Networks. *Rossa*, F.D., +, TCNS Dec. 2020 1678-1687

Differential games

A Differential Game Approach to Decentralized Virus-Resistant Weight Adaptation Policy Over Complex Networks. *Huang, Y.*, +, *TCNS June* 2020 944-955

Bayesian Graphical Games for Synchronization in Networks of Dynamical Systems. *Lopez, V.G.*, +, *TCNS June 2020 1028-1039*

Diffusion

Aggregate Fluctuations in Networks With Drift-Diffusion Models Driven by Stable Non-Gaussian Disturbances. *Somarakis, C.*, +, *TCNS Sept. 2020 1248-1258*

Directed graphs

Adaptive Protocol Design For Distributed Tracking With Relative Output Information: A Distributed Fixed-Time Observer Approach. Lv, Y., +, TCNS March 2020 118-128

Distributed Adaptive Time-Varying Group Formation Tracking for Multiagent Systems With Multiple Leaders on Directed Graphs. *Hu, J.*, +, *TCNS March 2020 140-150*

Distributed Consensus for Multiple Lagrangian Systems With Parametric Uncertainties and External Disturbances Under Directed Graphs. *Mei, J., TCNS June 2020 648-659*

Distributed Stopping Criterion for Consensus in the Presence of Delays. *Prakash*, M., +, *TCNS March 2020 85-95*

Optimizing the Coherence of a Network of Networks. *Mackin, E.*, +, *TCNS Sept. 2020 1465-1475*

Privacy-Preserving Distributed Online Optimization Over Unbalanced Digraphs via Subgradient Rescaling. *Xiong, Y.*, +, *TCNS Sept. 2020 1366-1378*

Relative Docking and Formation Control via Range and Odometry Measurements. Cao, K., +, TCNS June 2020 912-922

Resilient Sensor Placement for Kalman Filtering in Networked Systems: Complexity and Algorithms. *Ye, L.*, +, *TCNS Dec. 2020 1870-1881*

Scalable Consensus in Networks of Multiagent Systems Using High-Gain Observers. *Chowdhury, D.*, +, *TCNS Sept. 2020 1237-1247*

Stability of SIS Spreading Processes in Networks With Non-Markovian Transmission and Recovery. Ogura, M., +, TCNS March 2020 349-359

Stabilizing Scheduling Policies for Networked Control Systems. *Kundu, A.*, +, *TCNS March 2020 163-175*

The Outputs Robustness of Boolean Control Networks via Pinning Control. Li, B., +, TCNS March 2020 201-209

Disasters

Estimating Loadability Region of Natural Gas System via Monotone Inner Polytope Sequence. Wu, D., +, TCNS June 2020 660-672

Discrete event systems

State Estimation of Multichannel Networked Discrete Event Systems. *Lin*, *F.*, +, *TCNS March 2020 53-63*

Verification of Delay Co-Observability for Discrete Event Systems. Xu, P., +, TCNS March 2020 176-186

Discrete systems

Output-Based Periodic Event-Triggered Control for Nonlinear Plants: An Approximate-Model Method. Yu, H., +, TCNS Sept. 2020 1342-1354

Discrete time systems

- A Novel Fault Detection Method Under Weighted Try-Once-Discard Scheduling Over Sensor Networks. *Ju, Y.*, +, *TCNS Sept. 2020 1489-1499*
- Consensus Over Activity-Driven Networks. Zino, L., +, TCNS June 2020 866-877
- Distributed Networked Controller Design for Large-Scale Systems Under Round-Robin Communication Protocol. Yu, T., +, TCNS Sept. 2020 1201-1211
- Global Synchronization of Sampled-Data Invariant Systems on Exponential Lie Groups. *McCarthy, P.J.*, +, *TCNS Sept. 2020 1080-1089*
- Optimal Control and Stabilization for Networked Control Systems With Asymmetric Information. *Liang, X.*, +, *TCNS Sept. 2020 1355-1365*
- Resilient Consensus Through Event-Based Communication. Wang, Y., +, TCNS March 2020 471-482
- Stabilizing Scheduling Policies for Networked Control Systems. *Kundu, A.*, +, *TCNS March 2020 163-175*
- Time Decision for Multi-Input and Multi-Output Networked Control Systems. Wang, C., +, TCNS June 2020 558-567

Diseases

Stability of SIS Spreading Processes in Networks With Non-Markovian Transmission and Recovery. Ogura, M., +, TCNS March 2020 349-359

Distributed algorithms

- A Distributed Algorithm For Almost-Nash Equilibria of Average Aggregative Games With Coupling Constraints. *Parise*, F., +, TCNS June 2020 770-782
- Analysis and Design of First-Order Distributed Optimization Algorithms Over Time-Varying Graphs. *Sundararajan, A.*, +, *TCNS Dec. 2020 1597-1608*
- Asynchronous Distributed Power Control of Multimicrogrid Systems. *Wang*, Z., +, *TCNS Dec.* 2020 1960-1973
- Constraint-Coupled Distributed Optimization: A Relaxation and Duality Approach. *Notarnicola*, *I.*, +, *TCNS March* 2020 483-492
- Distributed C-Means Clustering Via Broadcast-Only Token Passing. Faramondi, L., +, TCNS March 2020 315-325
- Distributed Data Fusion for On-Scene Signal Sensing With a Multi-UAV System. Du, B., +, TCNS Sept. 2020 1330-1341
- Resilient Containment Control in Adversarial Environment. Yan, J., +, TCNS Dec. 2020 1951-1959

Distributed control

- A Flexible Synthesis Framework of Structured Controllers for Networked Systems. *Rosinger, C.A.*, +, *TCNS March 2020 6-18*
- A Framework of Multiagent Systems Behavioral Control Under State-Dependent Network Protocols. *El-Ferik*, S., +, TCNS June 2020 734-746
- A Hybrid Event-Triggered Approach to Consensus of Multiagent Systems With Disturbances. *Zhao, G.*, +, *TCNS Sept. 2020 1259-1271*
- A Novel Fault Detection Method Under Weighted Try-Once-Discard Scheduling Over Sensor Networks. Ju, Y, +, TCNS Sept. 2020 1489-1499
- Adaptive Protocol Design For Distributed Tracking With Relative Output Information: A Distributed Fixed-Time Observer Approach. Lv, Y, +, TCNS March 2020 118-128
- An Optimization-Based Cooperative Path-Following Framework for Multiple Robotic Vehicles. Alessandretti, A., +, TCNS June 2020 1002-1014
- Bayesian Graphical Games for Synchronization in Networks of Dynamical Systems. *Lopez, V.G.*, +, *TCNS June 2020 1028-1039*
- Collective Behavior of Heterogeneous Agents in Uncertain Cooperation—Competition Networks: A Nussbaum-Type Function Based Approach. *Hu*, *H*., +, *TCNS June 2020 783-796*
- Constraint-Coupled Distributed Optimization: A Relaxation and Duality Approach. *Notarnicola*, *I.*, +, *TCNS March 2020 483-492*
- Decomposition of Nonconvex Optimization via Bi-Level Distributed ALA-DIN. Engelmann, A., +, TCNS Dec. 2020 1848-1858
- Distributed Adaptive Time-Varying Group Formation Tracking for Multiagent Systems With Multiple Leaders on Directed Graphs. *Hu*, *J.*, +, *TCNS March 2020 140-150*
- Distributed Consensus for Multiple Lagrangian Systems With Parametric Uncertainties and External Disturbances Under Directed Graphs. *Mei, J., TCNS June 2020 648-659*

- Distributed Consensus-Based Multitarget Filtering and Its Application in Formation-Containment Control. Zhang, Y., +, TCNS March 2020 503-515
- Distributed Continuous-Time Nonsmooth Convex Optimization With Coupled Inequality Constraints. Li, X., +, TCNS March 2020 74-84
- Distributed Fault-Tolerant Control of Large-Scale Systems: An Active Fault Diagnosis Approach. *Boem, F., +, TCNS March 2020 288-301*
- Distributed Networked Controller Design for Large-Scale Systems Under Round-Robin Communication Protocol. Yu, T., +, TCNS Sept. 2020 1201-1211
- Distributed Resilient Observer-Based Fault-Tolerant Control for Heterogeneous Multiagent Systems Under Actuator Faults and DoS Attacks. *Deng*, *C.*, +, *TCNS Sept. 2020 1308-1318*
- Distributed Rigidity Recovery in Distance-Based Formations Using Configuration Lattice. *Amani, A.M.*, +, *TCNS Sept. 2020 1547-1558*
- Distributed Stopping Criterion for Consensus in the Presence of Delays. Prakash, M., +, TCNS March 2020 85-95
- Finite-Time Consensus for Linear Multiagent Systems via Event-Triggered Strategy Without Continuous Communication. *Du, C.*, +, *TCNS March* 2020 19-29
- Finite-Time Distributed Convex Optimization for Continuous-Time Multiagent Systems With Disturbance Rejection. Feng, Z., +, TCNS June 2020 686-698
- Fully Distributed Consensus Control for Linear Multiagent Systems: A Reduced-Order Adaptive Feedback Approach. *Li*, *X*., +, *TCNS June 2020* 967-976
- On Consensus of Multiagent Systems With Input Saturation: Fully Distributed Adaptive Antiwindup Protocol Design Approach. Lv, Y., +, TCNS Sept. 2020 1127-1139
- Robust Event-Triggered Dynamic Average Consensus Against Communication Link Failures With Application to Battery Control. *Xing, L.*, +, *TCNS Sept. 2020 1559-1570*
- Stability and Convergence of a Message-Loss-Tolerant Rendezvous Algorithm for Wireless Networked Robot Systems. *Manfredi*, S., +, TCNS Sept. 2020 1103-1114
- Stabilizing Scheduling Policies for Networked Control Systems. *Kundu, A.*, +, *TCNS March 2020 163-175*
- Time Decision for Multi-Input and Multi-Output Networked Control Systems. Wang, C., +, TCNS June 2020 558-567

Distributed parameter systems

Sensor Placement for Optimal Control of Infinite-Dimensional Systems. Hou, Q., +, TCNS March 2020 360-371

Distributed power generation

- Constraint-Coupled Distributed Optimization: A Relaxation and Duality Approach. Notarnicola, I., +, TCNS March 2020 483-492
- Joint Estimation of Topology and Injection Statistics in Distribution Grids With Missing Nodes. *Deka*, D., +, TCNS Sept. 2020 1391-1403

Distributed sensors

- A Stability Analysis Framework for Multiantenna Multisensor Cyber-Physical Systems With Rank-Deficient Measurement Matrices. *Cai*, *S.*, +, *TCNS March 2020 30-41*
- Robust Distributed Estimation of the Maximum of a Field. *Manfredi*, S., +, *TCNS March 2020 372-383*
- Time-Difference-of-Arrival (TDOA)-Based Distributed Target Localization by A Robotic Network. *Ennasr, O.,* +, *TCNS Sept. 2020 1416-1427*

Duality (mathematics)

Constraint-Coupled Distributed Optimization: A Relaxation and Duality Approach. *Notarnicola*, *I.*, +, *TCNS March 2020 483-492*

Dynamic programming

- Learning Optimal Scheduling Policy for Remote State Estimation Under Uncertain Channel Condition. Wu, S., +, TCNS June 2020 579-591
- Optimal Scheduling of Multiple Sensors Over Lossy and Bandwidth Limited Channels. Wu, S., +, TCNS Sept. 2020 1188-1200

E

Economics

Asynchronous Distributed Power Control of Multimicrogrid Systems. Wang, Z., +, TCNS Dec. 2020 1960-1973

Eigenvalues and eigenfunctions

A Framework of Multiagent Systems Behavioral Control Under State-Dependent Network Protocols. *El-Ferik*, S., +, TCNS June 2020 734-746

Adaptive Protocol Design For Distributed Tracking With Relative Output Information: A Distributed Fixed-Time Observer Approach. Lv, Y, +, TCNS March 2020 118-128

Consensus Over Activity-Driven Networks. Zino, L., +, TCNS June 2020 866-877

Differential Privacy for Network Identification. Katewa, V., +, TCNS March 2020 266-277

Explicit Characterization of Performance of a Class of Networked Linear Control Systems. *Mousavi, H.K.*, +, *TCNS Dec. 2020 1688-1699*

Network Design for Controllability Metrics. Becker, C.O., +, TCNS Sept. 2020 1404-1415

On Consensus of Multiagent Systems With Input Saturation: Fully Distributed Adaptive Antiwindup Protocol Design Approach. Lv, Y, +, TCNS Sept. 2020 1127-1139

Performance and Design of Consensus on Matrix-Weighted and Time-Scaled Graphs. Foight, D.R., +, TCNS Dec. 2020 1812-1822

Performance Measures in Electric Power Networks Under Line Contingencies. Coletta, T., +, TCNS March 2020 221-231

Scalable Consensus in Networks of Multiagent Systems Using High-Gain Observers. Chowdhury, D., +, TCNS Sept. 2020 1237-1247

Electric admittance

Estimating the Frequency Coupling Matrix From Network Measurements. Lesage-Landry, A., +, TCNS June 2020 724-733

Electric generators

Leveraging Generators With Complementary Capabilities for Robust Multistage Power Grid Operations. Zhao, S., +, TCNS Sept. 2020 1441-1452

Electric impedance

Learning With End-Users in Distribution Grids: Topology and Parameter Estimation. *Park, S.*, +, *TCNS Sept. 2020 1428-1440*

Electric vehicle charging

On the Interaction Between Autonomous Mobility-on-Demand Systems and the Power Network: Models and Coordination Algorithms. *Rossi, F.*, +, *TCNS March 2020 384-397*

Electronic mail

From Matrix-Weighted Consensus to Multipartite Average Consensus. Kwon, S., +, TCNS Dec. 2020 1609-1620

Energy conservation

Optimal Energy Consumption for Communication, Computation, Caching, and Quality Guarantee. Zafari, F., +, TCNS March 2020 151-162

Energy consumption

Optimal Energy Consumption for Communication, Computation, Caching, and Quality Guarantee. *Zafari*, F., +, TCNS March 2020 151-162

Energy harvesting

Optimal Scheduling Strategy for Networked Estimation With Energy Harvesting. Vasconcelos, M.M., +, TCNS Dec. 2020 1723-1735

Energy storage

Robust Event-Triggered Dynamic Average Consensus Against Communication Link Failures With Application to Battery Control. *Xing, L.*, +, *TCNS Sept. 2020 1559-1570*

Entropy

Convex Relaxations of the Network Flow Problem Under Cycle Constraints. Zholbaryssov, M., +, TCNS March 2020 64-73

Epidemics

Stability of SIS Spreading Processes in Networks With Non-Markovian Transmission and Recovery. Ogura, M., +, TCNS March 2020 349-359

Equivalent circuits

Convergence Analysis of Signed Nonlinear Networks. Chen, H., +, TCNS March 2020 189-200

Estimation

Distributed Formation Control of Mobile Agents via Global Orientation Estimation. Van Tran, Q., +, TCNS Dec. 2020 1654-1664

Optimal Scheduling Strategy for Networked Estimation With Energy Harvesting. Vasconcelos, M.M., +, TCNS Dec. 2020 1723-1735

Estimation theory

Distributed H_{∞} Estimation Resilient to Biasing Attacks. *Ugrinovskii*, V., TCNS March 2020 458-470

Distributed Relative Localization Using the Multidimensional Weighted Centroid. *Aragues, R.*, +, *TCNS Sept. 2020 1272-1282*

Globally Convergent Distributed Network Localization Using Locally Measured Bearings. Li, X., +, TCNS March 2020 245-253

Observation-Driven Scheduling for Remote Estimation of Two Gaussian Random Variables. *Vasconcelos, M.M.*, +, *TCNS March 2020 232-244*

Robust Distributed Estimation of the Maximum of a Field. *Manfredi*, S., +, TCNS March 2020 372-383

F

Failure analysis

An Optimal Control Approach to Identify the Worst-Case Cascading Failures in Power Systems. Zhai, C., +, TCNS June 2020 956-966

Fault diagnosis

A Novel Fault Detection Method Under Weighted Try-Once-Discard Scheduling Over Sensor Networks. Ju, Y, +, TCNS Sept. 2020 1489-1499

Distributed ℓ_1 -State-and-Fault Estimation for Multiagent Systems. Hashimoto, K., +, TCNS June 2020 699-710

Distributed Fault-Tolerant Control of Large-Scale Systems: An Active Fault Diagnosis Approach. *Boem, F., +, TCNS March 2020 288-301*

Distributed Resilient Observer-Based Fault-Tolerant Control for Heterogeneous Multiagent Systems Under Actuator Faults and DoS Attacks. *Deng*, C., +, TCNS Sept. 2020 1308-1318

Fault tolerance

Distributed Resilient Observer-Based Fault-Tolerant Control for Heterogeneous Multiagent Systems Under Actuator Faults and DoS Attacks. *Deng, C.*, +, *TCNS Sept. 2020 1308-1318*

Fault tolerant control

Distributed Fault-Tolerant Control of Large-Scale Systems: An Active Fault Diagnosis Approach. *Boem, F., +, TCNS March 2020 288-301*

Feedback

Distributed H_{∞} Estimation Resilient to Biasing Attacks. *Ugrinovskii, V., TCNS March 2020 458-470*

Fully Distributed Consensus Control for Linear Multiagent Systems: A Reduced-Order Adaptive Feedback Approach. *Li*, *X*., +, *TCNS June 2020* 967-976

Online Optimization as a Feedback Controller: Stability and Tracking. Colombino, M., +, TCNS March 2020 422-432

Sensor Placement for Optimal Control of Infinite-Dimensional Systems. Hou, Q., +, TCNS March 2020 360-371

Stabilizing Scheduling Policies for Networked Control Systems. *Kundu, A.*, +, *TCNS March 2020 163-175*

The Outputs Robustness of Boolean Control Networks via Pinning Control. Li, B., +, TCNS March 2020 201-209

Feedback control

Barrier Function Based Collaborative Control of Multiple Robots Under Signal Temporal Logic Tasks. *Lindemann, L.*, +, *TCNS Dec. 2020 1916-1928* Globally Stable Delay Alignment for Feedback Control Over Wireless Multipoint Connections. *Wigren, T.*, +, *TCNS Dec. 2020 1633-1642*

File servers

Consensus of Multiagent Systems Via Asynchronous Cloud Communication. Bowman, S.L., +, TCNS June 2020 627-637

Filtering theory

Distributed Consensus-Based Multitarget Filtering and Its Application in Formation-Containment Control. *Zhang, Y., +, TCNS March 2020 503-515* Security Against False Data-Injection Attack in Cyber-Physical Systems. *Chattopadhyay, A., +, TCNS June 2020 1015-1027*

Finance

Can Taxes Improve Congestion on All Networks?. Brown, P.N., +, TCNS Dec. 2020 1643-1653

Fluctuations

Aggregate Fluctuations in Networks With Drift-Diffusion Models Driven by Stable Non-Gaussian Disturbances. *Somarakis, C.*, +, *TCNS Sept. 2020* 1248-1258

Force control

Continuous-Time Optimization Dynamics Mirroring ADMM Architecture and Passivity-Based Robustification Against Delays. *Miyano*, *T.*, +, *TCNS Sept. 2020 1296-1307*

Frequency control

Secondary Frequency Control With On–Off Load Side Participation in Power Networks. Kasis, A., +, TCNS June 2020 603-613

Frequency measurement

Asynchronous Distributed Power Control of Multimicrogrid Systems. *Wang*, Z., +, *TCNS Dec. 2020 1960-1973*

G

Game theory

- A Distributed Algorithm For Almost-Nash Equilibria of Average Aggregative Games With Coupling Constraints. *Parise, F.*, +, *TCNS June 2020 770-782*
- A Mean Field Game Approach to Scheduling in Cellular Systems. *Man-jrekar, M.*, +, *TCNS June 2020 568-578*
- Behavioral and Game-Theoretic Security Investments in Interdependent Systems Modeled by Attack Graphs. *Abdallah, M.*, +, *TCNS Dec. 2020 1585-1596*
- Can Taxes Improve Congestion on All Networks?. Brown, P.N., +, TCNS Dec. 2020 1643-1653
- Control of Learning in Anticoordination Network Games. Eksin, C., +, TCNS Dec. 2020 1823-1835
- Control of Multilayer Mobile Autonomous Systems in Adversarial Environments: A Games-in-Games Approach. Chen, J., +, TCNS Sept. 2020 1056-1068
- Defending Against Stealthy Attacks on Multiple Nodes With Limited Resources: A Game-Theoretic Analysis. *Zhang, M.*, +, *TCNS Dec. 2020* 1665-1677
- Dynamic NE Seeking for Multi-Integrator Networked Agents With Disturbance Rejection. *Romano*, A.R., +, TCNS March 2020 129-139
- False Data Injection and Detection in LQG Systems: A Game Theoretic Approach. Zhang, R., +, TCNS March 2020 338-348
- How Will the Presence of Autonomous Vehicles Affect the Equilibrium State of Traffic Networks?. *Mehr*; N., +, *TCNS March 2020 96-105*
- Truthful Data Quality Elicitation for Quality-Aware Data Crowdsourcing. Gong, X., +, TCNS March 2020 326-337
- Two-Way Gaussian Networks With a Jammer and Decentralized Control. McDonald, C., +, TCNS March 2020 446-457

Gaussian channels

Two-Way Gaussian Networks With a Jammer and Decentralized Control. McDonald, C., +, TCNS March 2020 446-457

Gaussian noise

- Aggregate Fluctuations in Networks With Drift-Diffusion Models Driven by Stable Non-Gaussian Disturbances. *Somarakis, C.*, +, *TCNS Sept. 2020 1248-1258*
- Observation-Driven Scheduling for Remote Estimation of Two Gaussian Random Variables. *Vasconcelos, M.M.*, +, *TCNS March 2020 232-244*

Gaussian processes

- Observation-Driven Scheduling for Remote Estimation of Two Gaussian Random Variables. *Vasconcelos, M.M.*, +, *TCNS March 2020 232-244*
- Security Against False Data-Injection Attack in Cyber-Physical Systems. Chattopadhyay, A., +, TCNS June 2020 1015-1027

Geographic information systems

Min-Max Tours and Paths for Task Allocation to Heterogeneous Agents. Prasad, A., +, TCNS Sept. 2020 1511-1522

Geometric programming

Receding Horizon Control for Drinking Water Networks: The Case for Geometric Programming. *Wang, S.*, +, *TCNS Sept. 2020 1151-1163*

Geometry

Physics-Based Freely Scalable Continuum Deformation for UAS Traffic Coordination. Rastgoftar, H., +, TCNS June 2020 532-544

Gradient methods

Collision-Free Trajectory Design for 2-D Persistent Monitoring Using Second-Order Agents. Wang, Y., +, TCNS June 2020 545-557

Graph theory

A Flexible Synthesis Framework of Structured Controllers for Networked Systems. *Rosinger, C.A.*, +, *TCNS March 2020 6-18*

- A Framework of Multiagent Systems Behavioral Control Under State-Dependent Network Protocols. *El-Ferik, S., +, TCNS June 2020 734-746*
- Bayesian Graphical Games for Synchronization in Networks of Dynamical Systems. *Lopez, V.G.*, +, *TCNS June 2020 1028-1039*
- Bias Estimation in Sensor Networks. *Shi*, *M.*, +, *TCNS Sept. 2020 1534-1546* Collective Behavior of Heterogeneous Agents in Uncertain Cooperation—Competition Networks: A Nussbaum-Type Function Based Approach. *Hu*, *H.*, +, *TCNS June 2020 783-796*
- Convergence Analysis of Signed Nonlinear Networks. Chen, H., +, TCNS March 2020 189-200
- Decentralized Schemes With Overlap for Solving Graph-Structured Optimization Problems. Shin, S., +, TCNS Sept. 2020 1225-1236
- Distributed Convex Optimization on State-Dependent Undirected Graphs: Homogeneity Technique. *Hong, H.*, +, *TCNS March 2020 42-52*
- Distributed Rigidity Recovery in Distance-Based Formations Using Configuration Lattice. *Amani, A.M.*, +, *TCNS Sept. 2020 1547-1558*
- Fully Distributed Consensus Control for Linear Multiagent Systems: A Reduced-Order Adaptive Feedback Approach. *Li*, *X*., +, *TCNS June 2020 967-976*
- Generic Controllability of Networks With Identical SISO Dynamical Nodes. Commault, C., +, TCNS June 2020 855-865
- Global Synchronization of Sampled-Data Invariant Systems on Exponential Lie Groups. McCarthy, P.J., +, TCNS Sept. 2020 1080-1089
- Information Propagation Over Networks With Antagonistic Interactions: The Equilibrium Analysis. *Lin, X., +, TCNS June 2020 592-602*
- Laplacian Controllability of Interconnected Graphs. Hsu, S., TCNS June 2020 797-806
- Min-Max Tours and Paths for Task Allocation to Heterogeneous Agents. Prasad, A., +, TCNS Sept. 2020 1511-1522
- On the Robustness of Complex Systems With Multipartitivity Structures Under Node Attacks. Cai, O., +, TCNS March 2020 106-117
- Optimal Control for Heterogeneous Node-Based Information Epidemics Over Social Networks. Liu, F., +, TCNS Sept. 2020 1115-1126
- Optimal Distributed Convex Optimization on Slowly Time-Varying Graphs. Rogozin, A., +, TCNS June 2020 829-841
- Optimizing the Coherence of a Network of Networks. *Mackin, E.*, +, *TCNS Sept. 2020 1465-1475*
- Protection Placement for Power System State Estimation Measurement Data Integrity. Sou, K.C., TCNS June 2020 638-647
- Resilient Consensus Through Event-Based Communication. Wang, Y., +, TCNS March 2020 471-482
- Strongly Uncontrollable Network Topologies. Aguilar, C.O., TCNS June 2020 878-886

Graphical models

Data-Driven I/O Structure Learning With Contemporaneous Causality. Costanzo, J.A.W.B., +, TCNS Dec. 2020 1929-1939

Greedy algorithms

- Control of Learning in Anticoordination Network Games. Eksin, C., +, TCNS Dec. 2020 1823-1835
- Sensor Placement for Optimal Control of Infinite-Dimensional Systems. Hou, Q., +, TCNS March 2020 360-371

Н

Harmonics suppression

Estimating the Frequency Coupling Matrix From Network Measurements. Lesage-Landry, A., +, TCNS June 2020 724-733

Helicopters

Robust Formation Tracking Control for Multiple Quadrotors Subject to Switching Topologies. *Liu*, H., +, *TCNS Sept. 2020 1319-1329*

Heuristic algorithms

Distributed Continuous-Time Algorithms for Optimal Resource Allocation With Time-Varying Quadratic Cost Functions. Wang, B., +, TCNS Dec. 2020 1974-1984

Resilient Sensor Placement for Kalman Filtering in Networked Systems: Complexity and Algorithms. *Ye, L.*, +, *TCNS Dec. 2020 1870-1881*

Hydraulic systems

Receding Horizon Control for Drinking Water Networks: The Case for Geometric Programming. Wang, S., +, TCNS Sept. 2020 1151-1163

1

IEEE 802.11 Standard

Cascading Attacks on Wi-Fi Networks: Theory and Experiments. Xin, L., +, TCNS Dec. 2020 1757-1768

Image classification

Truthful Data Quality Elicitation for Quality-Aware Data Crowdsourcing. Gong, X., +, TCNS March 2020 326-337

Information dissemination

Optimal Control for Heterogeneous Node-Based Information Epidemics Over Social Networks. Liu, F., +, TCNS Sept. 2020 1115-1126

Information networks

Information Propagation Over Networks With Antagonistic Interactions: The Equilibrium Analysis. *Lin, X., +, TCNS June 2020 592-602*

Integer programming

Natural Gas Flow Solvers Using Convex Relaxation. Singh, M.K., +, TCNS Sept. 2020 1283-1295

Optimal Energy Consumption for Communication, Computation, Caching, and Quality Guarantee. Zafari, F., +, TCNS March 2020 151-162

Optimal Scheduling of Water Distribution Systems. Singh, M.K., +, TCNS June 2020 711-723

Protection Placement for Power System State Estimation Measurement Data Integrity. Sou, K.C., TCNS June 2020 638-647

Receding Horizon Control for Drinking Water Networks: The Case for Geometric Programming. Wang, S., +, TCNS Sept. 2020 1151-1163

Interactive systems

Information Propagation Over Networks With Antagonistic Interactions: The Equilibrium Analysis. *Lin, X., +, TCNS June 2020 592-602*

Interconnected systems

Distributed Fault-Tolerant Control of Large-Scale Systems: An Active Fault Diagnosis Approach. *Boem, F., +, TCNS March 2020 288-301*

From Dissipativity Theory to Compositional Abstractions of Interconnected Stochastic Hybrid Systems. Awan, A.U., +, TCNS March 2020 433-445

Internet

Optimal Control for Heterogeneous Node-Based Information Epidemics Over Social Networks. Liu, F., +, TCNS Sept. 2020 1115-1126

Internet of Things

Optimal Secure Two-Layer IoT Network Design. Chen, J., +, TCNS March 2020 398-409

Security Against False Data-Injection Attack in Cyber-Physical Systems. Chattopadhyay, A., +, TCNS June 2020 1015-1027

Invasive software

A Differential Game Approach to Decentralized Virus-Resistant Weight Adaptation Policy Over Complex Networks. *Huang, Y.*, +, *TCNS June* 2020 944-955

Investment

Behavioral and Game-Theoretic Security Investments in Interdependent Systems Modeled by Attack Graphs. *Abdallah, M.*, +, *TCNS Dec. 2020 1585-1596*

Iterative methods

An Optimal Control Approach to Identify the Worst-Case Cascading Failures in Power Systems. Zhai, C., +, TCNS June 2020 956-966

Control of Multilayer Mobile Autonomous Systems in Adversarial Environments: A Games-in-Games Approach. *Chen, J.*, +, *TCNS Sept. 2020* 1056-1068

Distributed Stopping Criterion for Consensus in the Presence of Delays. *Prakash*, M., +, *TCNS March 2020 85-95*

Optimal Distributed Convex Optimization on Slowly Time-Varying Graphs. *Rogozin, A.*, +, *TCNS June 2020 829-841*

Range-Based Coordinate Alignment for Cooperative Mobile Sensor Network Localization. You, K., +, TCNS Sept. 2020 1379-1390

Relaxed Schrödinger Bridges and Robust Network Routing. Chen, Y., +, TCNS June 2020 923-931

Sensor Placement for Optimal Control of Infinite-Dimensional Systems. Hou, Q., +, TCNS March 2020 360-371 J

Jamming

Cascading Attacks on Wi-Fi Networks: Theory and Experiments. Xin, L., +, TCNS Dec. 2020 1757-1768

Control of Multilayer Mobile Autonomous Systems in Adversarial Environments: A Games-in-Games Approach. Chen, J., +, TCNS Sept. 2020 1056-1068

Optimal Secure Two-Layer IoT Network Design. Chen, J., +, TCNS March 2020 398-409

Two-Way Gaussian Networks With a Jammer and Decentralized Control. McDonald, C., +, TCNS March 2020 446-457

K

Kalman filters

Distributed Consensus-Based Multitarget Filtering and Its Application in Formation-Containment Control. *Zhang, Y., +, TCNS March 2020 503-515* Distributed Kalman Filtering Under Model Uncertainty. *Zorzi, M., TCNS June 2020 990-1001*

Resilient Sensor Placement for Kalman Filtering in Networked Systems: Complexity and Algorithms. *Ye, L.*, +, *TCNS Dec. 2020 1870-1881*

Time-Difference-of-Arrival (TDOA)-Based Distributed Target Localization by A Robotic Network. *Ennasr, O.,* +, *TCNS Sept. 2020 1416-1427*

 \mathbf{L}

Labour resources

Truthful Data Quality Elicitation for Quality-Aware Data Crowdsourcing. Gong, X., +, TCNS March 2020 326-337

Laplace equations

Adaptive Protocol Design For Distributed Tracking With Relative Output Information: A Distributed Fixed-Time Observer Approach. Lv, Y., +, TCNS March 2020 118-128

Explicit Characterization of Performance of a Class of Networked Linear Control Systems. *Mousavi, H.K.*, +, *TCNS Dec. 2020 1688-1699*

From Matrix-Weighted Consensus to Multipartite Average Consensus. Kwon, S., +, TCNS Dec. 2020 1609-1620

Performance and Design of Consensus on Matrix-Weighted and Time-Scaled Graphs. Foight, D.R., +, TCNS Dec. 2020 1812-1822

Large-scale systems

Average State Estimation in Large-Scale Clustered Network Systems. *Niazi, M.U.B.*, +, *TCNS Dec. 2020 1736-1745*

Communication-Delay-Dependent Rendezvous With Possible Negative Controller Gain in Cyclic Pursuit. De, S., +, TCNS Sept. 2020 1069-1079

Distributed Inference of the Multiplex Network Topology of Complex Systems. *Lombana*, D.A.B., +, TCNS March 2020 278-287

Distributed Networked Controller Design for Large-Scale Systems Under Round-Robin Communication Protocol. Yu, T., +, TCNS Sept. 2020 1201-1211

On the Robustness of Complex Systems With Multipartitivity Structures Under Node Attacks. *Cai*, *Q*., +, *TCNS March 2020 106-117*

Learning (artificial intelligence)

An Online Mechanism for Resource Allocation in Networks. *Pu, S.*, +, *TCNS Sept. 2020 1140-1150*

Learning Optimal Scheduling Policy for Remote State Estimation Under Uncertain Channel Condition. Wu, S., +, TCNS June 2020 579-591

Learning With End-Users in Distribution Grids: Topology and Parameter Estimation. *Park, S.*, +, *TCNS Sept. 2020 1428-1440*

Security Against False Data-Injection Attack in Cyber-Physical Systems. Chattopadhyay, A., +, TCNS June 2020 1015-1027

Learning systems

Dissipativity-Based Asynchronous Repetitive Control for Networked Markovian Jump Systems: 2-D System Approach. *Liu, X.*, +, *TCNS Sept. 2020 1212-1224*

Lie groups

Global Synchronization of Sampled-Data Invariant Systems on Exponential Lie Groups. *McCarthy, P.J.*, +, *TCNS Sept. 2020 1080-1089*

Motion Feasibility Conditions for Multiagent Control Systems on Lie Groups. Colombo, L.J., +, TCNS March 2020 493-502

Linear matrix inequalities

Dissipativity-Based Asynchronous Repetitive Control for Networked Markovian Jump Systems: 2-D System Approach. *Liu*, X., +, *TCNS Sept. 2020* 1212-1224

Distributed Networked Controller Design for Large-Scale Systems Under Round-Robin Communication Protocol. Yu, T., +, TCNS Sept. 2020 1201-1211

Distributed Resilient Observer-Based Fault-Tolerant Control for Heterogeneous Multiagent Systems Under Actuator Faults and DoS Attacks. *Deng*, *C.*, +, *TCNS Sept. 2020 1308-1318*

From Dissipativity Theory to Compositional Abstractions of Interconnected Stochastic Hybrid Systems. Awan, A.U., +, TCNS March 2020 433-445

Network Design for Controllability Metrics. Becker, C.O., +, TCNS Sept. 2020 1404-1415

Online Optimization as a Feedback Controller: Stability and Tracking. Colombino, M., +, TCNS March 2020 422-432

Linear programming

Optimal Scheduling of Multiple Sensors Over Lossy and Bandwidth Limited Channels. Wu, S., +, TCNS Sept. 2020 1188-1200

Protection Placement for Power System State Estimation Measurement Data Integrity. Sou, K.C., TCNS June 2020 638-647

Linear quadratic Gaussian control

False Data Injection and Detection in LQG Systems: A Game Theoretic Approach. Zhang, R., +, TCNS March 2020 338-348

Linear systems

A Hybrid Event-Triggered Approach to Consensus of Multiagent Systems With Disturbances. *Zhao, G.*, +, *TCNS Sept. 2020 1259-1271*

Comment on "Detecting Topology Variations in Networks of Linear Dynamical Systems". Roy, S., +, TCNS March 2020 187-188

Consensus Disturbance Rejection for Linear Multiagent Systems With Directed Switching Communication Topologies. *Wang, P.*, +, *TCNS March* 2020 254-265

Controllability of Directed Networked MIMO Systems With Heterogeneous Dynamics. Xiang, L., +, TCNS June 2020 807-817

Distributed Resilient Observer-Based Fault-Tolerant Control for Heterogeneous Multiagent Systems Under Actuator Faults and DoS Attacks. *Deng*, C., +, TCNS Sept. 2020 1308-1318

Distributed Stopping Criterion for Consensus in the Presence of Delays. Prakash, M., +, TCNS March 2020 85-95

Estimating the Impact of Cyber-Attack Strategies for Stochastic Networked Control Systems. *Milosevic, J., +, TCNS June 2020 747-757*

Finite-Time Consensus for Linear Multiagent Systems via Event-Triggered Strategy Without Continuous Communication. *Du, C.*, +, *TCNS March* 2020 19-29

Fully Distributed Consensus Control for Linear Multiagent Systems: A Reduced-Order Adaptive Feedback Approach. *Li*, *X.*, +, *TCNS June 2020 967-976*

Joint Cross-Layer Optimization in Real-Time Networked Control Systems. Klugel, M., +, TCNS Dec. 2020 1903-1915

Network Design for Controllability Metrics. Becker, C.O., +, TCNS Sept. 2020 1404-1415

Online Optimization as a Feedback Controller: Stability and Tracking. Colombino, M., +, TCNS March 2020 422-432

Optimal Network Topology Design in Composite Systems for Structural Controllability. *Moothedath*, S., +, TCNS Sept. 2020 1164-1175

Sparsity Invariance for Convex Design of Distributed Controllers. *Furieri*, L., +, *TCNS Dec. 2020 1836-1847*

Stabilizing Scheduling Policies for Networked Control Systems. *Kundu, A.*, +, *TCNS March 2020 163-175*

Load flow

Combinatorial Optimization of AC Optimal Power Flow With Discrete Demands in Radial Networks. Khonji, M., +, TCNS June 2020 887-898

Generalized Convex Hull Pricing for the AC Optimal Power Flow Problem. Garcia, M., +, TCNS Sept. 2020 1500-1510

Joint Estimation of Topology and Injection Statistics in Distribution Grids With Missing Nodes. Deka, D., +, TCNS Sept. 2020 1391-1403

Online Optimization as a Feedback Controller: Stability and Tracking. Colombino, M., +, TCNS March 2020 422-432

Protection Placement for Power System State Estimation Measurement Data Integrity. Sou, K.C., TCNS June 2020 638-647

Stochastic Defense Against Complex Grid Attacks. Bienstock, D., +, TCNS June 2020 842-854

Load flow control

An Optimal Control Approach to Identify the Worst-Case Cascading Failures in Power Systems. *Zhai, C.*, +, *TCNS June 2020 956-966*

Lyapunov methods

A Stability Analysis Framework for Multiantenna Multisensor Cyber-Physical Systems With Rank-Deficient Measurement Matrices. *Cai*, S., +, *TCNS March* 2020 30-41

Collective Behavior of Heterogeneous Agents in Uncertain Cooperation—Competition Networks: A Nussbaum-Type Function Based Approach. *Hu*, *H.*, +, *TCNS June 2020 783-796*

Dissipativity-Based Asynchronous Repetitive Control for Networked Markovian Jump Systems: 2-D System Approach. *Liu, X.*, +, *TCNS Sept. 2020 1212-1224*

Distributed Consensus for Multiple Lagrangian Systems With Parametric Uncertainties and External Disturbances Under Directed Graphs. *Mei, J., TCNS June 2020 648-659*

Distributed Continuous-Time Nonsmooth Convex Optimization With Coupled Inequality Constraints. Li, X., +, TCNS March 2020 74-84

Distributed Inference of the Multiplex Network Topology of Complex Systems. Lombana, D.A.B., +, TCNS March 2020 278-287

Distributed Resilient Observer-Based Fault-Tolerant Control for Heterogeneous Multiagent Systems Under Actuator Faults and DoS Attacks. *Deng*, C., +, TCNS Sept. 2020 1308-1318

Distributed Robust Event-Triggered Control Strategy for Multiple High-Speed Trains With Communication Delays and Input Constraints. *Zhao*, H., +, TCNS Sept. 2020 1453-1464

Global Synchronization of Sampled-Data Invariant Systems on Exponential Lie Groups. *McCarthy, P.J.*, +, *TCNS Sept. 2020 1080-1089*

M

Machine-to-machine communications

Joint Cross-Layer Optimization in Real-Time Networked Control Systems. Klugel, M., +, TCNS Dec. 2020 1903-1915

Manipulators

Distributed Inference of the Multiplex Network Topology of Complex Systems. Lombana, D.A.B., +, TCNS March 2020 278-287

Markov processes

Dissipativity-Based Asynchronous Repetitive Control for Networked Markovian Jump Systems: 2-D System Approach. *Liu, X., +, TCNS Sept. 2020 1212-1224*

Optimal Scheduling of Multiple Sensors Over Lossy and Bandwidth Limited Channels. Wu, S., +, TCNS Sept. 2020 1188-1200

Stability of SIS Spreading Processes in Networks With Non-Markovian Transmission and Recovery. Ogura, M., +, TCNS March 2020 349-359

Mathematical analysis

An Optimal Control Approach to Identify the Worst-Case Cascading Failures in Power Systems. Zhai, C., +, TCNS June 2020 956-966

Mathematical model

Model Reduction Based Approximation of the Output Controllability Gramian in Large-Scale Networks. *Casadei, G.*, +, *TCNS Dec. 2020 1778-1788* Sampled-Data Set Stabilization of Impulsive Boolean Networks Based on a Hybrid Index Model. *Lin, L.*, +, *TCNS Dec. 2020 1859-1869*

Matrix algebra

A Flexible Synthesis Framework of Structured Controllers for Networked Systems. *Rosinger, C.A.*, +, *TCNS March 2020 6-18*

A Framework of Multiagent Systems Behavioral Control Under State-Dependent Network Protocols. *El-Ferik*, S., +, TCNS June 2020 734-746

A Stability Analysis Framework for Multiantenna Multisensor Cyber-Physical Systems With Rank-Deficient Measurement Matrices. *Cai*, S., +, *TCNS March* 2020 30-41

- Adaptive Protocol Design For Distributed Tracking With Relative Output Information: A Distributed Fixed-Time Observer Approach. Lv, Y, +, TCNS March 2020 118-128
- Distributed Adaptive Time-Varying Group Formation Tracking for Multiagent Systems With Multiple Leaders on Directed Graphs. *Hu*, *J.*, +, *TCNS March* 2020 140-150
- Distributed Consensus-Based Multitarget Filtering and Its Application in Formation-Containment Control. Zhang, Y., +, TCNS March 2020 503-515
- Distributed Data Fusion for On-Scene Signal Sensing With a Multi-UAV System. Du. B., +, TCNS Sept. 2020 1330-1341
- Distributed Design for Decentralized Control Using Chordal Decomposition and ADMM. Zheng, Y, +, TCNS June 2020 614-626
- Distributed Stopping Criterion for Consensus in the Presence of Delays. *Prakash*, M., +, *TCNS March 2020 85-95*
- Estimating the Frequency Coupling Matrix From Network Measurements. Lesage-Landry, A., +, TCNS June 2020 724-733
- Fully Distributed Consensus Control for Linear Multiagent Systems: A Reduced-Order Adaptive Feedback Approach. *Li*, *X*., +, *TCNS June 2020 967-976*
- Generic Controllability of Networks With Identical SISO Dynamical Nodes. Commault, C., +, TCNS June 2020 855-865
- Global Synchronization of Sampled-Data Invariant Systems on Exponential Lie Groups. *McCarthy, P.J.*, +, *TCNS Sept. 2020 1080-1089*
- Network Design for Controllability Metrics. Becker, C.O., +, TCNS Sept. 2020 1404-1415
- On Consensus of Multiagent Systems With Input Saturation: Fully Distributed Adaptive Antiwindup Protocol Design Approach. Lv, Y, +, TCNS Sept. 2020 1127-1139
- Optimal Network Topology Design in Composite Systems for Structural Controllability. *Moothedath, S.*, +, *TCNS Sept. 2020 1164-1175*
- Pinning Controllability of k-Valued Logical Systems. Li, F., +, TCNS Sept. 2020 1523-1533
- Privacy-Preserving Distributed Online Optimization Over Unbalanced Digraphs via Subgradient Rescaling. *Xiong, Y.*, +, *TCNS Sept. 2020 1366-1378*
- Scalable Consensus in Networks of Multiagent Systems Using High-Gain Observers. Chowdhury, D., +, TCNS Sept. 2020 1237-1247

Matrix converters

Output Robustness of Probabilistic Boolean Control Networks With Respect to One-Bit Perturbation. Zhu, S., +, TCNS Dec. 2020 1769-1777

Matrix decomposition

Constraint-Coupled Distributed Optimization: A Relaxation and Duality Approach. *Notarnicola*, *I.*, +, *TCNS March 2020 483-492*

Maximum entropy methods

Relaxed Schrödinger Bridges and Robust Network Routing. Chen, Y., +, TCNS June 2020 923-931

Maximum principle

Optimal Control for Heterogeneous Node-Based Information Epidemics Over Social Networks. Liu, F., +, TCNS Sept. 2020 1115-1126

Mean square error methods

- Distributed Consensus-Based Multitarget Filtering and Its Application in Formation-Containment Control. Zhang, Y., +, TCNS March 2020 503-515
- Observation-Driven Scheduling for Remote Estimation of Two Gaussian Random Variables. Vasconcelos, M.M., +, TCNS March 2020 232-244
- Security Against False Data-Injection Attack in Cyber-Physical Systems. Chattopadhyay, A., +, TCNS June 2020 1015-1027
- Two-Way Gaussian Networks With a Jammer and Decentralized Control. McDonald, C., +, TCNS March 2020 446-457

Measurement

Model Reduction Based Approximation of the Output Controllability Gramian in Large-Scale Networks. *Casadei, G.*, +, *TCNS Dec. 2020 1778-1788*

Measurement uncertainty

Clique-Based Distributed PI Control for Multiagent Coordination With Heterogeneous, Uncertain, Time-Varying Orientations. Sakurama, K., TCNS Dec. 2020 1712-1722

Medical control systems

The Outputs Robustness of Boolean Control Networks via Pinning Control. Li, B., +, TCNS March 2020 201-209

Military communication

Optimal Secure Two-Layer IoT Network Design. Chen, J., +, TCNS March 2020 398-409

Military computing

Optimal Secure Two-Layer IoT Network Design. Chen, J., +, TCNS March 2020 398-409

MIMO communication

Globally Stable Delay Alignment for Feedback Control Over Wireless Multipoint Connections. Wigren, T., +, TCNS Dec. 2020 1633-1642

MIMO systems

- Consensus Disturbance Rejection for Linear Multiagent Systems With Directed Switching Communication Topologies. *Wang, P.*, +, *TCNS March* 2020 254-265
- Controllability of Directed Networked MIMO Systems With Heterogeneous Dynamics. *Xiang, L.*, +, *TCNS June 2020 807-817*
- Time Decision for Multi-Input and Multi-Output Networked Control Systems. Wang, C., +, TCNS June 2020 558-567

Minimax techniques

Observation-Driven Scheduling for Remote Estimation of Two Gaussian Random Variables. *Vasconcelos, M.M.*, +, *TCNS March 2020 232-244*

Minimization

- Distributed Submodular Minimization and Motion Planning Over Discrete State Space. *Jaleel, H.*, +, *TCNS June 2020 932-943*
- Secondary Frequency Control With On–Off Load Side Participation in Power Networks. Kasis, A., +, TCNS June 2020 603-613
- Sensor Network Localization via Alternating Rank Minimization Algorithms. Wan, C., +, TCNS June 2020 1040-1051

Mobile agents

- Control of Multilayer Mobile Autonomous Systems in Adversarial Environments: A Games-in-Games Approach. Chen, J., +, TCNS Sept. 2020 1056-1068
- Distributed Formation Control of Mobile Agents via Global Orientation Estimation. Van Tran, Q., +, TCNS Dec. 2020 1654-1664
- Min-Max Tours and Paths for Task Allocation to Heterogeneous Agents. Prasad, A., +, TCNS Sept. 2020 1511-1522

Mobile computing

Optimal Secure Two-Layer IoT Network Design. Chen, J., +, TCNS March 2020 398-409

Mobile radio

Range-Based Coordinate Alignment for Cooperative Mobile Sensor Network Localization. You, K., +, TCNS Sept. 2020 1379-1390

Mobile robots

- An Optimization-Based Cooperative Path-Following Framework for Multiple Robotic Vehicles. *Alessandretti*, A., +, TCNS June 2020 1002-1014
- Collision-Free Trajectory Design for 2-D Persistent Monitoring Using Second-Order Agents. Wang, Y., +, TCNS June 2020 545-557
- Communication-Delay-Dependent Rendezvous With Possible Negative Controller Gain in Cyclic Pursuit. De, S., +, TCNS Sept. 2020 1069-1079
- Control of Multilayer Mobile Autonomous Systems in Adversarial Environments: A Games-in-Games Approach. Chen, J., +, TCNS Sept. 2020 1056-1068
- Controlling Parent Systems Through Swarms Using Abstraction. *Crandall, K.L.*, +, *TCNS March 2020 210-220*
- Decentralized Heading Control With Rate Constraints Using Pulse-Coupled Oscillators. Anglea, T., +, TCNS Sept. 2020 1090-1102
- Distributed Communication-Aware Motion Planning for Networked Mobile Robots Under Formal Specifications. *Liu, Z.*, +, *TCNS Dec. 2020 1801-1811*
- Distributed Submodular Minimization and Motion Planning Over Discrete State Space. *Jaleel, H.*, +, *TCNS June 2020 932-943*
- How Will the Presence of Autonomous Vehicles Affect the Equilibrium State of Traffic Networks?. *Mehr, N., +, TCNS March 2020 96-105*
- Motion Capability Analysis for Multiple Fixed-Wing UAV Formations With Speed and Heading Rate Constraints. *Wang, Y.*, +, *TCNS June 2020 977-989*
- On the Interaction Between Autonomous Mobility-on-Demand Systems and the Power Network: Models and Coordination Algorithms. *Rossi, F.*, +, *TCNS March 2020 384-397*

- Physics-Based Freely Scalable Continuum Deformation for UAS Traffic Coordination. *Rastgoftar, H.*, +, *TCNS June 2020 532-544*
- Relative Docking and Formation Control via Range and Odometry Measurements. Cao, K., +, TCNS June 2020 912-922
- Stability and Convergence of a Message-Loss-Tolerant Rendezvous Algorithm for Wireless Networked Robot Systems. *Manfredi*, S., +, *TCNS Sept.* 2020 1103-1114
- Time-Difference-of-Arrival (TDOA)-Based Distributed Target Localization by A Robotic Network. *Ennasr, O., +, TCNS Sept. 2020 1416-1427*
- Trajectory Optimization of Autonomous Agents With Spatio-Temporal Constraints. Meng, X., +, TCNS Sept. 2020 1571-1581

Motion control

- Motion Capability Analysis for Multiple Fixed-Wing UAV Formations With Speed and Heading Rate Constraints. *Wang, Y.*, +, *TCNS June 2020 977-080*
- Relative Docking and Formation Control via Range and Odometry Measurements. Cao, K., +, TCNS June 2020 912-922
- Time-Difference-of-Arrival (TDOA)-Based Distributed Target Localization by A Robotic Network. *Ennasr, O., +, TCNS Sept. 2020 1416-1427*

Multi-agent systems

- A Framework of Multiagent Systems Behavioral Control Under State-Dependent Network Protocols. *El-Ferik*, S., +, TCNS June 2020 734-746
- A Hybrid Event-Triggered Approach to Consensus of Multiagent Systems With Disturbances. *Zhao, G.*, +, *TCNS Sept. 2020 1259-1271*
- Adaptive Protocol Design For Distributed Tracking With Relative Output Information: A Distributed Fixed-Time Observer Approach. Lv, Y, +, TCNS March 2020 118-128
- An Online Mechanism for Resource Allocation in Networks. Pu, S., +, TCNS Sept. 2020 1140-1150
- An Optimization-Based Cooperative Path-Following Framework for Multiple Robotic Vehicles. Alessandretti, A., +, TCNS June 2020 1002-1014
- Barrier Function Based Collaborative Control of Multiple Robots Under Signal Temporal Logic Tasks. *Lindemann, L.*, +, *TCNS Dec. 2020 1916-1928*
- Bayesian Graphical Games for Synchronization in Networks of Dynamical Systems. Lopez, V.G., +, TCNS June 2020 1028-1039
- Clique-Based Distributed PI Control for Multiagent Coordination With Heterogeneous, Uncertain, Time-Varying Orientations. Sakurama, K., TCNS Dec. 2020 1712-1722
- Communication-Delay-Dependent Rendezvous With Possible Negative Controller Gain in Cyclic Pursuit. De, S., +, TCNS Sept. 2020 1069-1079
- Consensus Disturbance Rejection for Linear Multiagent Systems With Directed Switching Communication Topologies. Wang, P., +, TCNS March 2020 254-265
- Consensus of Multiagent Systems Via Asynchronous Cloud Communication. Bowman, S.L., +, TCNS June 2020 627-637
- Control of Multilayer Mobile Autonomous Systems in Adversarial Environments: A Games-in-Games Approach. Chen, J., +, TCNS Sept. 2020 1056-1068
- Distributed ℓ_1 -State-and-Fault Estimation for Multiagent Systems. *Hashimoto, K.*, +, *TCNS June 2020 699-710*
- Distributed Adaptive Time-Varying Group Formation Tracking for Multiagent Systems With Multiple Leaders on Directed Graphs. *Hu*, *J*., +, *TCNS March 2020 140-150*
- Distributed Consensus for Multiple Lagrangian Systems With Parametric Uncertainties and External Disturbances Under Directed Graphs. *Mei, J., TCNS June 2020 648-659*
- Distributed Continuous-Time Nonsmooth Convex Optimization With Coupled Inequality Constraints. Li, X., +, TCNS March 2020 74-84
- Distributed Convex Optimization on State-Dependent Undirected Graphs: Homogeneity Technique. *Hong, H.*, +, *TCNS March 2020 42-52*
- Distributed Relative Localization Using the Multidimensional Weighted Centroid. *Aragues, R.*, +, *TCNS Sept. 2020 1272-1282*
- Distributed Resilient Observer-Based Fault-Tolerant Control for Heterogeneous Multiagent Systems Under Actuator Faults and DoS Attacks. *Deng*, *C.*, +, *TCNS Sept. 2020 1308-1318*
- Distributed Rigidity Recovery in Distance-Based Formations Using Configuration Lattice. Amani, A.M., +, TCNS Sept. 2020 1547-1558

- Distributed Robust Event-Triggered Control Strategy for Multiple High-Speed Trains With Communication Delays and Input Constraints. *Zhao*, H., +, TCNS Sept. 2020 1453-1464
- Distributed Stopping Criterion for Consensus in the Presence of Delays. *Prakash*, M., +, *TCNS March* 2020 85-95
- Distributed Submodular Minimization and Motion Planning Over Discrete State Space. *Jaleel, H.*, +, *TCNS June 2020 932-943*
- Dynamic NE Seeking for Multi-Integrator Networked Agents With Disturbance Rejection. *Romano*, A.R., +, TCNS March 2020 129-139
- Finite-Time Consensus for Linear Multiagent Systems via Event-Triggered Strategy Without Continuous Communication. *Du, C.*, +, *TCNS March* 2020 19-29
- From Matrix-Weighted Consensus to Multipartite Average Consensus. Kwon, S., +, TCNS Dec. 2020 1609-1620
- Fully Distributed Consensus Control for Linear Multiagent Systems: A Reduced-Order Adaptive Feedback Approach. *Li, X.*, +, *TCNS June 2020 967-976*
- Motion Feasibility Conditions for Multiagent Control Systems on Lie Groups. Colombo, L.J., +, TCNS March 2020 493-502
- On Consensus of Multiagent Systems With Input Saturation: Fully Distributed Adaptive Antiwindup Protocol Design Approach. Lv, Y., +, TCNS Sept. 2020 1127-1139
- Optimal Network Topology Design in Composite Systems for Structural Controllability. *Moothedath*, S., +, TCNS Sept. 2020 1164-1175
- Optimal Scheduling Strategy for Networked Estimation With Energy Harvesting. Vasconcelos, M.M., +, TCNS Dec. 2020 1723-1735
- Resilient Consensus Through Event-Based Communication. Wang, Y., +, TCNS March 2020 471-482
- Robust Distributed Estimation of the Maximum of a Field. *Manfredi*, S., +, TCNS March 2020 372-383
- Robust Event-Triggered Dynamic Average Consensus Against Communication Link Failures With Application to Battery Control. *Xing, L.*, +, *TCNS Sept. 2020 1559-1570*
- Robust Formation Tracking Control for Multiple Quadrotors Subject to Switching Topologies. *Liu*, *H.*, +, *TCNS Sept. 2020 1319-1329*
- Scalable Consensus in Networks of Multiagent Systems Using High-Gain Observers. *Chowdhury, D.*, +, *TCNS Sept. 2020 1237-1247*

Multi-robot systems

- A Hybrid Event-Triggered Approach to Consensus of Multiagent Systems With Disturbances. *Zhao, G.*, +, *TCNS Sept. 2020 1259-1271*
- An Optimization-Based Cooperative Path-Following Framework for Multiple Robotic Vehicles. *Alessandretti*, A., +, TCNS June 2020 1002-1014
- Collective Behavior of Heterogeneous Agents in Uncertain Cooperation—Competition Networks: A Nussbaum-Type Function Based Approach. *Hu, H., +, TCNS June 2020 783-796*
- Collision-Free Trajectory Design for 2-D Persistent Monitoring Using Second-Order Agents. Wang, Y., +, TCNS June 2020 545-557
- Communication-Delay-Dependent Rendezvous With Possible Negative Controller Gain in Cyclic Pursuit. De, S., +, TCNS Sept. 2020 1069-1079
- Controlling Parent Systems Through Swarms Using Abstraction. *Crandall, K.L.*, +, *TCNS March 2020 210-220*
- Decentralized Heading Control With Rate Constraints Using Pulse-Coupled Oscillators. *Anglea, T.*, +, *TCNS Sept. 2020 1090-1102*
- Distributed Adaptive Time-Varying Group Formation Tracking for Multiagent Systems With Multiple Leaders on Directed Graphs. *Hu*, *J.*, +, *TCNS March 2020 140-150*
- Distributed Data Fusion for On-Scene Signal Sensing With a Multi-UAV System. Du, B., +, TCNS Sept. 2020 1330-1341
- Distributed Inference of the Multiplex Network Topology of Complex Systems. Lombana, D.A.B., +, TCNS March 2020 278-287
- Finite-Time Distributed Convex Optimization for Continuous-Time Multiagent Systems With Disturbance Rejection. Feng, Z., +, TCNS June 2020 686-698
- Motion Capability Analysis for Multiple Fixed-Wing UAV Formations With Speed and Heading Rate Constraints. *Wang, Y.*, +, *TCNS June 2020 977-989*

- Relative Docking and Formation Control via Range and Odometry Measurements. Cao, K., +, TCNS June 2020 912-922
- Robust Formation Tracking Control for Multiple Quadrotors Subject to Switching Topologies. *Liu, H.*, +, *TCNS Sept. 2020 1319-1329*
- Stability and Convergence of a Message-Loss-Tolerant Rendezvous Algorithm for Wireless Networked Robot Systems. *Manfredi, S.*, +, *TCNS Sept.* 2020 1103-1114
- Time-Difference-of-Arrival (TDOA)-Based Distributed Target Localization by A Robotic Network. *Ennasr, O., +, TCNS Sept. 2020 1416-1427*

Multidimensional systems

- Sensor Placement for Optimal Control of Infinite-Dimensional Systems. Hou, Q., +, TCNS March 2020 360-371
- Trajectory Optimization of Autonomous Agents With Spatio-Temporal Constraints. Meng, X., +, TCNS Sept. 2020 1571-1581

Multivariable systems

Decentralized Heading Control With Rate Constraints Using Pulse-Coupled Oscillators. *Anglea, T., +, TCNS Sept. 2020 1090-1102*

N

Nash equilibrium

Defending Against Stealthy Attacks on Multiple Nodes With Limited Resources: A Game-Theoretic Analysis. *Zhang, M.*, +, *TCNS Dec. 2020* 1665-1677

Natural gas technology

Estimating Loadability Region of Natural Gas System via Monotone Inner Polytope Sequence. Wu, D., +, TCNS June 2020 660-672

Network routing

Relaxed Schrödinger Bridges and Robust Network Routing. Chen, Y., +, TCNS June 2020 923-931

Network security

- Behavioral and Game-Theoretic Security Investments in Interdependent Systems Modeled by Attack Graphs. *Abdallah, M.*, +, *TCNS Dec. 2020 1585-1596*
- Control of Learning in Anticoordination Network Games. Eksin, C., +, TCNS Dec. 2020 1823-1835

Network theory (graphs)

- Collective Behavior of Heterogeneous Agents in Uncertain Cooperation—Competition Networks: A Nussbaum-Type Function Based Approach. *Hu*, *H*., +, *TCNS June 2020 783-796*
- Consensus Over Activity-Driven Networks. Zino, L., +, TCNS June 2020 866-877
- Convergence Analysis of Signed Nonlinear Networks. Chen, H., +, TCNS March 2020 189-200
- Convex Relaxations of the Network Flow Problem Under Cycle Constraints. Zholbaryssov, M., +, TCNS March 2020 64-73
- Distributed Adaptive Time-Varying Group Formation Tracking for Multiagent Systems With Multiple Leaders on Directed Graphs. *Hu, J.*, +, *TCNS March 2020 140-150*
- Distributed Consensus-Based Multitarget Filtering and Its Application in Formation-Containment Control. Zhang, Y., +, TCNS March 2020 503-515
- Distributed Inference of the Multiplex Network Topology of Complex Systems. *Lombana*, *D.A.B.*, +, *TCNS March 2020 278-287*
- Distributed Rigidity Recovery in Distance-Based Formations Using Configuration Lattice. Amani, A.M., +, TCNS Sept. 2020 1547-1558
- How Will the Presence of Autonomous Vehicles Affect the Equilibrium State of Traffic Networks?. Mehr; N., +, TCNS March 2020 96-105
- Multistage Complex Contagions in Random Multiplex Networks. *Zhuang*, Y, +, TCNS March 2020 410-421
- Network Design for Controllability Metrics. Becker, C.O., +, TCNS Sept. 2020 1404-1415
- On the Robustness of Complex Systems With Multipartitivity Structures Under Node Attacks. Cai, Q., +, TCNS March 2020 106-117
- Optimizing the Coherence of a Network of Networks. *Mackin, E.*, +, *TCNS Sept. 2020 1465-1475*
- Privacy-Preserving Distributed Online Optimization Over Unbalanced Digraphs via Subgradient Rescaling. *Xiong, Y.*, +, *TCNS Sept. 2020 1366-1378*

- Resilient Consensus Through Event-Based Communication. Wang, Y., +, TCNS March 2020 471-482
- Stability of SIS Spreading Processes in Networks With Non-Markovian Transmission and Recovery. Ogura, M., +, TCNS March 2020 349-359
- Target Control of Directed Networks based on Network Flow Problems. *Li*, *G*., +, *TCNS June 2020 673-685*

Network topology

- Average State Estimation in Large-Scale Clustered Network Systems. *Niazi, M.U.B.*, +, *TCNS Dec. 2020 1736-1745*
- Cascading Attacks on Wi-Fi Networks: Theory and Experiments. $Xin, L., +, TCNS Dec.\ 2020\ 1757-1768$
- Clique-Based Distributed PI Control for Multiagent Coordination With Heterogeneous, Uncertain, Time-Varying Orientations. Sakurama, K., TCNS Dec. 2020 1712-1722
- Distributed Inference of the Multiplex Network Topology of Complex Systems. Lombana, D.A.B., +, TCNS March 2020 278-287
- Optimal Network Topology Design in Composite Systems for Structural Controllability. *Moothedath*, S., +, TCNS Sept. 2020 1164-1175
- Resilient Containment Control in Adversarial Environment. Yan, J., +, TCNS Dec. 2020 1951-1959
- Simultaneous Facility Location and Path Optimization in Static and Dynamic Networks. *Srivastava, A.*, +, *TCNS Dec. 2020 1700-1711*

Networked control systems

- A Flexible Synthesis Framework of Structured Controllers for Networked Systems. *Rosinger, C.A.*, +, *TCNS March 2020 6-18*
- A Hybrid Event-Triggered Approach to Consensus of Multiagent Systems With Disturbances. *Zhao, G.*, +, *TCNS Sept. 2020 1259-1271*
- A Linear Active Disturbance Rejection Control Approach to Position Synchronization Control for Networked Interconnected Motion System. *Wang*, *Y.*, +, *TCNS Dec.* 2020 1746-1756
- A Novel Fault Detection Method Under Weighted Try-Once-Discard Scheduling Over Sensor Networks. *Ju*, *Y*, +, *TCNS Sept. 2020 1489-1499*
- Asynchronous Distributed Power Control of Multimicrogrid Systems. *Wang*, Z., +, *TCNS Dec. 2020 1960-1973*
- Average State Estimation in Large-Scale Clustered Network Systems. *Niazi, M.U.B.*, +, *TCNS Dec. 2020 1736-1745*
- Control of Learning in Anticoordination Network Games. Eksin, C., +, TCNS Dec. 2020 1823-1835
- Controllability of Directed Networked MIMO Systems With Heterogeneous Dynamics. *Xiang, L., +, TCNS June 2020 807-817*
- Distributed Communication-Aware Motion Planning for Networked Mobile Robots Under Formal Specifications. *Liu, Z.*, +, *TCNS Dec. 2020 1801-1811*
- Distributed Robust Event-Triggered Control Strategy for Multiple High-Speed Trains With Communication Delays and Input Constraints. *Zhao*, *H.*, +, *TCNS Sept. 2020 1453-1464*
- Estimating the Impact of Cyber-Attack Strategies for Stochastic Networked Control Systems. *Milosevic, J., +, TCNS June 2020 747-757*
- Explicit Characterization of Performance of a Class of Networked Linear Control Systems. *Mousavi, H.K.*, +, *TCNS Dec. 2020 1688-1699*
- Extremum Seeking Control With Sporadic Packet Transmission for Networked Control Systems. *Premaratne*, U., +, TCNS June 2020 758-769
- Joint Cross-Layer Optimization in Real-Time Networked Control Systems. Klugel, M., +, TCNS Dec. 2020 1903-1915
- Mixed Autonomy in Ride-Sharing Networks. Wei, Q., +, TCNS Dec. 2020 1940-1950
- Optimal Control and Stabilization for Networked Control Systems With Asymmetric Information. *Liang, X.*, +, *TCNS Sept. 2020 1355-1365*
- Optimal Scheduling Strategy for Networked Estimation With Energy Harvesting. Vasconcelos, M.M., +, TCNS Dec. 2020 1723-1735
- Resilient Containment Control in Adversarial Environment. Yan, J., +, TCNS Dec. 2020 1951-1959
- Sparsity Invariance for Convex Design of Distributed Controllers. Furieri, L, +, TCNS Dec. 2020 1836-1847
- Stabilizing Scheduling Policies for Networked Control Systems. *Kundu, A.*, +, *TCNS March 2020 163-175*

- State Estimation of Multichannel Networked Discrete Event Systems. *Lin*, *F*, +, *TCNS March 2020 53-63*
- Time Decision for Multi-Input and Multi-Output Networked Control Systems. Wang, C., +, TCNS June 2020 558-567
- Tradeoff Between Controllability and Robustness in Diffusively Coupled Networks. *Abbas, W.*, +, *TCNS Dec. 2020 1891-1902*

Noise measurement

- Explicit Characterization of Performance of a Class of Networked Linear Control Systems. *Mousavi, H.K.*, +, *TCNS Dec. 2020 1688-1699*
- Performance and Design of Consensus on Matrix-Weighted and Time-Scaled Graphs. Foight, D.R., +, TCNS Dec. 2020 1812-1822
- Tradeoff Between Controllability and Robustness in Diffusively Coupled Networks. *Abbas, W., +, TCNS Dec. 2020 1891-1902*

Nonlinear control systems

- A Framework of Multiagent Systems Behavioral Control Under State-Dependent Network Protocols. *El-Ferik*, S., +, *TCNS June 2020 734-746*
- An Optimization-Based Cooperative Path-Following Framework for Multiple Robotic Vehicles. Alessandretti, A., +, TCNS June 2020 1002-1014
- Collective Behavior of Heterogeneous Agents in Uncertain Cooperation—Competition Networks: A Nussbaum-Type Function Based Approach. *Hu*, *H.*, +, *TCNS June 2020 783-796*
- Distributed Consensus for Multiple Lagrangian Systems With Parametric Uncertainties and External Disturbances Under Directed Graphs. *Mei, J., TCNS June 2020 648-659*
- Distributed Resilient Observer-Based Fault-Tolerant Control for Heterogeneous Multiagent Systems Under Actuator Faults and DoS Attacks. *Deng*, *C.*, +, *TCNS Sept. 2020 1308-1318*
- Distributed Robust Event-Triggered Control Strategy for Multiple High-Speed Trains With Communication Delays and Input Constraints. *Zhao*, H., +, TCNS Sept. 2020 1453-1464
- From Dissipativity Theory to Compositional Abstractions of Interconnected Stochastic Hybrid Systems. Awan, A.U., +, TCNS March 2020 433-445
- Global Synchronization of Sampled-Data Invariant Systems on Exponential Lie Groups. *McCarthy, P.J.*, +, *TCNS Sept. 2020 1080-1089*
- Output-Based Periodic Event-Triggered Control for Nonlinear Plants: An Approximate-Model Method. Yu, H., +, TCNS Sept. 2020 1342-1354
- Robust Formation Tracking Control for Multiple Quadrotors Subject to Switching Topologies. Liu, H., +, TCNS Sept. 2020 1319-1329
- Robust Stabilization of Input-Affine Nonlinear Systems Under Network Constraints. *Ghodrat, M.*, +, *TCNS June 2020 818-828*
- Time Decision for Multi-Input and Multi-Output Networked Control Systems. Wang, C., +, TCNS June 2020 558-567

Nonlinear dynamical systems

- Distributed Bilayered Control for Transient Frequency Safety and System Stability in Power Grids. Zhang, Y., +, TCNS Sept. 2020 1476-1488
- Distributed Inference of the Multiplex Network Topology of Complex Systems. *Lombana, D.A.B.*, +, *TCNS March 2020 278-287*

Nonlinear filters

Time-Difference-of-Arrival (TDOA)-Based Distributed Target Localization by A Robotic Network. *Ennasr, O., +, TCNS Sept. 2020 1416-1427*

Nonlinear programming

- Optimal Energy Consumption for Communication, Computation, Caching, and Quality Guarantee. *Zafari*, F., +, TCNS March 2020 151-162
- Optimal Scheduling of Water Distribution Systems. Singh, M.K., +, TCNS June 2020 711-723

Numerical analysis

- Learning With End-Users in Distribution Grids: Topology and Parameter Estimation. Park, S., +, TCNS Sept. 2020 1428-1440
- Leveraging Generators With Complementary Capabilities for Robust Multistage Power Grid Operations. Zhao, S., +, TCNS Sept. 2020 1441-1452
- Receding Horizon Control for Drinking Water Networks: The Case for Geometric Programming. Wang, S., +, TCNS Sept. 2020 1151-1163

O

Object detection

Security Against False Data-Injection Attack in Cyber-Physical Systems. Chattopadhyay, A., +, TCNS June 2020 1015-1027

Observability

- Reconstructibility Analysis and Observer Design for Boolean Control Networks. Zhang, Z., +, TCNS March 2020 516-528
- Verification of Delay Co-Observability for Discrete Event Systems. Xu, P., +, TCNS March 2020 176-186

Observers

- Adaptive Protocol Design For Distributed Tracking With Relative Output Information: A Distributed Fixed-Time Observer Approach. Lv, Y, +, TCNS March 2020 118-128
- Adaptive Secure State Estimation for Cyber-Physical Systems With Low Memory Cost. An, L., +, TCNS Dec. 2020 1621-1632
- Average State Estimation in Large-Scale Clustered Network Systems. *Niazi, M.U.B.*, +, *TCNS Dec. 2020 1736-1745*
- Consensus Disturbance Rejection for Linear Multiagent Systems With Directed Switching Communication Topologies. *Wang, P.*, +, *TCNS March* 2020 254-265
- Distributed H_{∞} Estimation Resilient to Biasing Attacks. *Ugrinovskii, V., TCNS March 2020 458-470*
- Distributed Resilient Observer-Based Fault-Tolerant Control for Heterogeneous Multiagent Systems Under Actuator Faults and DoS Attacks. *Deng, C.*, +, *TCNS Sept. 2020 1308-1318*
- Dynamic NE Seeking for Multi-Integrator Networked Agents With Disturbance Rejection. *Romano, A.R.*, +, *TCNS March 2020 129-139*
- Reconstructibility Analysis and Observer Design for Boolean Control Networks. Zhang, Z., +, TCNS March 2020 516-528
- Redefined Reconstructibility and State Estimation for Boolean Networks. Yang, J., +, TCNS Dec. 2020 1882-1890
- Scalable Consensus in Networks of Multiagent Systems Using High-Gain Observers. Chowdhury, D., +, TCNS Sept. 2020 1237-1247

Optimal control

- An Optimal Control Approach to Identify the Worst-Case Cascading Failures in Power Systems. Zhai, C., +, TCNS June 2020 956-966
- Collision-Free Trajectory Design for 2-D Persistent Monitoring Using Second-Order Agents. Wang, Y., +, TCNS June 2020 545-557
- Continuous-Time Optimization Dynamics Mirroring ADMM Architecture and Passivity-Based Robustification Against Delays. *Miyano, T.*, +, *TCNS Sept. 2020 1296-1307*
- Distributed Bilayered Control for Transient Frequency Safety and System Stability in Power Grids. Zhang, Y., +, TCNS Sept. 2020 1476-1488
- Extremum Seeking Control With Sporadic Packet Transmission for Networked Control Systems. *Premaratne*, U., +, TCNS June 2020 758-769
- Optimal Control and Stabilization for Networked Control Systems With Asymmetric Information. *Liang, X.*, +, *TCNS Sept. 2020 1355-1365*
- Optimal Network Topology Design in Composite Systems for Structural Controllability. *Moothedath, S., +, TCNS Sept. 2020 1164-1175*
- Sensor Placement for Optimal Control of Infinite-Dimensional Systems. Hou, Q., +, TCNS March 2020 360-371
- Sparsity Invariance for Convex Design of Distributed Controllers. *Furieri*, L., +, *TCNS Dec. 2020 1836-1847*

Optimal scheduling

Optimal Scheduling Strategy for Networked Estimation With Energy Harvesting. Vasconcelos, M.M., +, TCNS Dec. 2020 1723-1735

Optimization

- An Optimal Control Approach to Identify the Worst-Case Cascading Failures in Power Systems. Zhai, C., +, TCNS June 2020 956-966
- Analysis and Design of First-Order Distributed Optimization Algorithms Over Time-Varying Graphs. *Sundararajan, A.*, +, *TCNS Dec. 2020 1597-1608*
- Collision-Free Trajectory Design for 2-D Persistent Monitoring Using Second-Order Agents. Wang, Y., +, TCNS June 2020 545-557
- Constraint-Coupled Distributed Optimization: A Relaxation and Duality Approach. *Notarnicola*, *I.*, +, *TCNS March 2020 483-492*
- Decentralized Schemes With Overlap for Solving Graph-Structured Optimization Problems. Shin, S., +, TCNS Sept. 2020 1225-1236
- Decomposition of Nonconvex Optimization via Bi-Level Distributed ALA-DIN. Engelmann, A., +, TCNS Dec. 2020 1848-1858
- Distributed ℓ_1 -State-and-Fault Estimation for Multiagent Systems. *Hashimoto, K.*, +, *TCNS June 2020 699-710*

Extremum Seeking Control With Sporadic Packet Transmission for Networked Control Systems. *Premaratne, U.*, +, *TCNS June 2020 758-769*

Generalized Convex Hull Pricing for the AC Optimal Power Flow Problem. Garcia, M., +, TCNS Sept. 2020 1500-1510

Joint Cross-Layer Optimization in Real-Time Networked Control Systems. Klugel, M., +, TCNS Dec. 2020 1903-1915

Joint Estimation of Topology and Injection Statistics in Distribution Grids With Missing Nodes. *Deka, D., +, TCNS Sept. 2020 1391-1403*

Learning With End-Users in Distribution Grids: Topology and Parameter Estimation. Park, S., +, TCNS Sept. 2020 1428-1440

Mixed Autonomy in Ride-Sharing Networks. Wei, Q., +, TCNS Dec. 2020 1940-1950

On the Interaction Between Autonomous Mobility-on-Demand Systems and the Power Network: Models and Coordination Algorithms. *Rossi, F.*, +, *TCNS March 2020 384-397*

Optimal Control for Heterogeneous Node-Based Information Epidemics Over Social Networks. *Liu, F., +, TCNS Sept. 2020 1115-1126*

Scalable Consensus in Networks of Multiagent Systems Using High-Gain Observers. Chowdhury, D., +, TCNS Sept. 2020 1237-1247

Target Control of Directed Networks based on Network Flow Problems. *Li*, *G.*, +, *TCNS June 2020 673-685*

Oscillators

Decentralized Heading Control With Rate Constraints Using Pulse-Coupled Oscillators. *Anglea, T., +, TCNS Sept. 2020 1090-1102*

Stability Conditions for Cluster Synchronization in Networks of Heterogeneous Kuramoto Oscillators. *Menara*, T., +, TCNS March 2020 302-314

P

Partial differential equations

Physics-Based Freely Scalable Continuum Deformation for UAS Traffic Coordination. Rastgoftar, H., +, TCNS June 2020 532-544

Path planning

An Optimization-Based Cooperative Path-Following Framework for Multiple Robotic Vehicles. Alessandretti, A., +, TCNS June 2020 1002-1014

Decentralized Heading Control With Rate Constraints Using Pulse-Coupled Oscillators. *Anglea, T., +, TCNS Sept. 2020 1090-1102*

Relative Docking and Formation Control via Range and Odometry Measurements. Cao, K., +, TCNS June 2020 912-922

PD control

Scalable Consensus in Networks of Multiagent Systems Using High-Gain Observers. Chowdhury, D., +, TCNS Sept. 2020 1237-1247

Personne

Truthful Data Quality Elicitation for Quality-Aware Data Crowdsourcing. Gong, X., +, TCNS March 2020 326-337

Perturbation methods

Output Robustness of Probabilistic Boolean Control Networks With Respect to One-Bit Perturbation. Zhu, S., +, TCNS Dec. 2020 1769-1777

Perturbation techniques

Collision-Free Trajectory Design for 2-D Persistent Monitoring Using Second-Order Agents. Wang, Y., +, TCNS June 2020 545-557

Consensus Over Activity-Driven Networks. Zino, L., +, TCNS June 2020 866-877

Phasor measurement

Estimating the Frequency Coupling Matrix From Network Measurements. Lesage-Landry, A., +, TCNS June 2020 724-733

Protection Placement for Power System State Estimation Measurement Data Integrity. Sou, K.C., TCNS June 2020 638-647

Pipes

Optimal Scheduling of Water Distribution Systems. Singh, M.K., +, TCNS June 2020 711-723

Planning

Distributed Communication-Aware Motion Planning for Networked Mobile Robots Under Formal Specifications. *Liu, Z.*, +, *TCNS Dec. 2020 1801-1811*

Poisson distribution

On the Robustness of Complex Systems With Multipartitivity Structures Under Node Attacks. Cai, Q., +, TCNS March 2020 106-117

Polynomials

Generalized Convex Hull Pricing for the AC Optimal Power Flow Problem. Garcia, M., +, TCNS Sept. 2020 1500-1510

Leveraging Generators With Complementary Capabilities for Robust Multistage Power Grid Operations. *Zhao, S., +, TCNS Sept. 2020 1441-1452*Optimal Network Topology Design in Composite Systems for Structural

Controllability. Moothedath, S., +, TCNS Sept. 2020 1164-1175

Position control

An Optimization-Based Cooperative Path-Following Framework for Multiple Robotic Vehicles. *Alessandretti*, A., +, TCNS June 2020 1002-1014

Distributed Consensus for Multiple Lagrangian Systems With Parametric Uncertainties and External Disturbances Under Directed Graphs. *Mei, J., TCNS June 2020 648-659*

Relative Docking and Formation Control via Range and Odometry Measurements. Cao, K., +, TCNS June 2020 912-922

Robust Formation Tracking Control for Multiple Quadrotors Subject to Switching Topologies. *Liu, H.*, +, *TCNS Sept. 2020 1319-1329*

Power aware computing

Optimal Energy Consumption for Communication, Computation, Caching, and Quality Guarantee. *Zafari*, F., +, TCNS March 2020 151-162

Power converters

Estimating the Frequency Coupling Matrix From Network Measurements. Lesage-Landry, A., +, TCNS June 2020 724-733

Power distribution control

Learning With End-Users in Distribution Grids: Topology and Parameter Estimation. *Park, S., +, TCNS Sept. 2020 1428-1440*

Power distribution lines

Learning With End-Users in Distribution Grids: Topology and Parameter Estimation. *Park, S., +, TCNS Sept. 2020 1428-1440*

Power engineering computing

Learning With End-Users in Distribution Grids: Topology and Parameter Estimation. Park, S., +, TCNS Sept. 2020 1428-1440

Stochastic Defense Against Complex Grid Attacks. *Bienstock, D.*, +, *TCNS June 2020 842-854*

Power generation control

Secondary Frequency Control With On–Off Load Side Participation in Power Networks. Kasis, A., +, TCNS June 2020 603-613

Power generation dispatch

Leveraging Generators With Complementary Capabilities for Robust Multistage Power Grid Operations. Zhao, S., +, TCNS Sept. 2020 1441-1452

Power generation reliability

Leveraging Generators With Complementary Capabilities for Robust Multistage Power Grid Operations. *Zhao, S., +, TCNS Sept. 2020 1441-1452*

Power grids

Distributed Bilayered Control for Transient Frequency Safety and System Stability in Power Grids. Zhang, Y., +, TCNS Sept. 2020 1476-1488

Estimating the Frequency Coupling Matrix From Network Measurements. Lesage-Landry, A., +, TCNS June 2020 724-733

Joint Estimation of Topology and Injection Statistics in Distribution Grids With Missing Nodes. *Deka, D., +, TCNS Sept. 2020 1391-1403*

Leveraging Generators With Complementary Capabilities for Robust Multistage Power Grid Operations. Zhao, S., +, TCNS Sept. 2020 1441-1452

Power markets

Generalized Convex Hull Pricing for the AC Optimal Power Flow Problem. Garcia, M., +, TCNS Sept. 2020 1500-1510

Leveraging Generators With Complementary Capabilities for Robust Multistage Power Grid Operations. Zhao, S., +, TCNS Sept. 2020 1441-1452

Power supply quality

Estimating the Frequency Coupling Matrix From Network Measurements. Lesage-Landry, A., +, TCNS June 2020 724-733

Power system control

Distributed Bilayered Control for Transient Frequency Safety and System Stability in Power Grids. Zhang, Y., +, TCNS Sept. 2020 1476-1488

Robust Event-Triggered Dynamic Average Consensus Against Communication Link Failures With Application to Battery Control. *Xing, L.*, +, *TCNS Sept. 2020 1559-1570*

Secondary Frequency Control With On–Off Load Side Participation in Power Networks. Kasis, A., +, TCNS June 2020 603-613

Power system dynamics

Simultaneous Facility Location and Path Optimization in Static and Dynamic Networks. *Srivastava*, A., +, TCNS Dec. 2020 1700-1711

Stochastic Pinning Controllability of Noisy Complex Networks. *Rossa, F.D.*, +, *TCNS Dec. 2020 1678-1687*

Power system economics

On the Interaction Between Autonomous Mobility-on-Demand Systems and the Power Network: Models and Coordination Algorithms. *Rossi, F.*, +, *TCNS March 2020 384-397*

Power system harmonics

Estimating the Frequency Coupling Matrix From Network Measurements. Lesage-Landry, A., +, TCNS June 2020 724-733

Power system parameter estimation

Learning With End-Users in Distribution Grids: Topology and Parameter Estimation. Park, S., +, TCNS Sept. 2020 1428-1440

Power system protection

Estimating the Frequency Coupling Matrix From Network Measurements. Lesage-Landry, A., +, TCNS June 2020 724-733

Protection Placement for Power System State Estimation Measurement Data Integrity. Sou, K.C., TCNS June 2020 638-647

Power system security

Stochastic Defense Against Complex Grid Attacks. Bienstock, D., +, TCNS June 2020 842-854

Power system state estimation

Joint Estimation of Topology and Injection Statistics in Distribution Grids With Missing Nodes. Deka, D., +, TCNS Sept. 2020 1391-1403

Protection Placement for Power System State Estimation Measurement Data Integrity. Sou, K.C., TCNS June 2020 638-647

Power system transient stability

Distributed Bilayered Control for Transient Frequency Safety and System Stability in Power Grids. Zhang, Y., +, TCNS Sept. 2020 1476-1488

Power systems

Decomposition of Nonconvex Optimization via Bi-Level Distributed ALA-DIN. Engelmann, A., +, TCNS Dec. 2020 1848-1858

Power transmission

On the Interaction Between Autonomous Mobility-on-Demand Systems and the Power Network: Models and Coordination Algorithms. *Rossi, F.*, +, *TCNS March 2020 384-397*

Power transmission control

An Optimal Control Approach to Identify the Worst-Case Cascading Failures in Power Systems. Zhai, C., +, TCNS June 2020 956-966

Online Optimization as a Feedback Controller: Stability and Tracking. Colombino, M., +, TCNS March 2020 422-432

Power transmission faults

An Optimal Control Approach to Identify the Worst-Case Cascading Failures in Power Systems. Zhai, C., +, TCNS June 2020 956-966

Performance Measures in Electric Power Networks Under Line Contingencies. Coletta, T., +, TCNS March 2020 221-231

Power transmission lines

An Optimal Control Approach to Identify the Worst-Case Cascading Failures in Power Systems. Zhai, C., +, TCNS June 2020 956-966

Performance Measures in Electric Power Networks Under Line Contingencies. Coletta, T., +, TCNS March 2020 221-231

Power transmission reliability

An Optimal Control Approach to Identify the Worst-Case Cascading Failures in Power Systems. Zhai, C., +, TCNS June 2020 956-966

Prediction algorithms

Decomposition of Nonconvex Optimization via Bi-Level Distributed ALA-DIN. Engelmann, A., +, TCNS Dec. 2020 1848-1858

Distributed Continuous-Time Algorithms for Optimal Resource Allocation With Time-Varying Quadratic Cost Functions. Wang, B., +, TCNS Dec. 2020 1974-1984

Predictive control

An Optimization-Based Cooperative Path-Following Framework for Multiple Robotic Vehicles. *Alessandretti*, A., +, TCNS June 2020 1002-1014

Constraint-Coupled Distributed Optimization: A Relaxation and Duality Approach. *Notarnicola, I., +, TCNS March 2020 483-492*

Decomposition of Nonconvex Optimization via Bi-Level Distributed ALA-DIN. Engelmann, A., +, TCNS Dec. 2020 1848-1858 Distributed Bilayered Control for Transient Frequency Safety and System Stability in Power Grids. Zhang, Y., +, TCNS Sept. 2020 1476-1488

Distributed Communication-Aware Motion Planning for Networked Mobile Robots Under Formal Specifications. *Liu, Z.*, +, *TCNS Dec. 2020 1801-1811*

Distributed Fault-Tolerant Control of Large-Scale Systems: An Active Fault Diagnosis Approach. *Boem, F., +, TCNS March 2020 288-301*

Receding Horizon Control for Drinking Water Networks: The Case for Geometric Programming. *Wang*, S., +, TCNS Sept. 2020 1151-1163

Pricing

A Mean Field Game Approach to Scheduling in Cellular Systems. *Man-jrekar*, M., +, TCNS June 2020 568-578

Generalized Convex Hull Pricing for the AC Optimal Power Flow Problem. Garcia, M., +, TCNS Sept. 2020 1500-1510

On the Interaction Between Autonomous Mobility-on-Demand Systems and the Power Network: Models and Coordination Algorithms. *Rossi, F.*, +, *TCNS March 2020 384-397*

Probabilistic logic

Output Robustness of Probabilistic Boolean Control Networks With Respect to One-Bit Perturbation. *Zhu*, S., +, *TCNS Dec. 2020 1769-1777*

Redefined Reconstructibility and State Estimation for Boolean Networks. Yang, J., +, TCNS Dec. 2020 1882-1890

Probability

Dissipativity-Based Asynchronous Repetitive Control for Networked Markovian Jump Systems: 2-D System Approach. *Liu, X.*, +, *TCNS Sept. 2020 1212-1224*

Distributed Consensus-Based Multitarget Filtering and Its Application in Formation-Containment Control. Zhang, Y., +, TCNS March 2020 503-515

Estimating the Impact of Cyber-Attack Strategies for Stochastic Networked Control Systems. *Milosevic, J., +, TCNS June 2020 747-757*

False Data Injection and Detection in LQG Systems: A Game Theoretic Approach. Zhang, R., +, TCNS March 2020 338-348

Multistage Complex Contagions in Random Multiplex Networks. *Zhuang*, Y., +, *TCNS March 2020 410-421*

Optimal Control and Stabilization for Networked Control Systems With Asymmetric Information. *Liang, X.*, +, *TCNS Sept. 2020 1355-1365*

Relaxed Schrödinger Bridges and Robust Network Routing. Chen, Y., +, TCNS June 2020 923-931

Probability distribution

Data-Driven I/O Structure Learning With Contemporaneous Causality. Costanzo, J.A.W.B., +, TCNS Dec. 2020 1929-1939

Protocols

A Novel Fault Detection Method Under Weighted Try-Once-Discard Scheduling Over Sensor Networks. Ju, Y, +, TCNS Sept. 2020 1489-1499

Adaptive Protocol Design For Distributed Tracking With Relative Output Information: A Distributed Fixed-Time Observer Approach. Lv, Y., +, TCNS March 2020 118-128

Cascading Attacks on Wi-Fi Networks: Theory and Experiments. Xin, L., +, TCNS Dec. 2020 1757-1768

Distributed C-Means Clustering Via Broadcast-Only Token Passing. Faramondi, L., +, TCNS March 2020 315-325

Distributed Formation Control of Mobile Agents via Global Orientation Estimation. *Van Tran, Q.*, +, *TCNS Dec. 2020 1654-1664*

From Matrix-Weighted Consensus to Multipartite Average Consensus. Kwon, S., +, TCNS Dec. 2020 1609-1620

On Consensus of Multiagent Systems With Input Saturation: Fully Distributed Adaptive Antiwindup Protocol Design Approach. Lv, Y, +, TCNS Sept. 2020 1127-1139

Resilient Containment Control in Adversarial Environment. Yan, J., +, TCNS Dec. 2020 1951-1959

Pumps

Optimal Scheduling of Water Distribution Systems. Singh, M.K., +, TCNS June 2020 711-723

Q

Quadratic programming

Natural Gas Flow Solvers Using Convex Relaxation. Singh, M.K., +, TCNS Sept. 2020 1283-1295

Quality of service

Distributed Communication-Aware Motion Planning for Networked Mobile Robots Under Formal Specifications. *Liu, Z.*, +, *TCNS Dec. 2020 1801-1811*

Quaternions

Hierarchical Design for Position-Based Formation Control of Rotorcraft-Like Aerial Vehicles. Zhang, D., +, TCNS Dec. 2020 1789-1800

Queueing theory

A Mean Field Game Approach to Scheduling in Cellular Systems. *Man-jrekar, M.*, +, *TCNS June 2020 568-578*

ŀ

Radio frequency

Analysis and Design of First-Order Distributed Optimization Algorithms Over Time-Varying Graphs. Sundararajan, A., +, TCNS Dec. 2020 1597-1608

Radio links

Distributed C-Means Clustering Via Broadcast-Only Token Passing. Faramondi, L., +, TCNS March 2020 315-325

Radiocommunication

A Distributed Algorithm For Almost-Nash Equilibria of Average Aggregative Games With Coupling Constraints. *Parise*, F., +, *TCNS June 2020* 770-782

Railway communication

Distributed Robust Event-Triggered Control Strategy for Multiple High-Speed Trains With Communication Delays and Input Constraints. *Zhao*, H., +, TCNS Sept. 2020 1453-1464

Railways

Distributed Robust Event-Triggered Control Strategy for Multiple High-Speed Trains With Communication Delays and Input Constraints. *Zhao*, H., +, TCNS Sept. 2020 1453-1464

Random processes

Multistage Complex Contagions in Random Multiplex Networks. *Zhuang*, Y, +, TCNS March 2020 410-421

Observation-Driven Scheduling for Remote Estimation of Two Gaussian Random Variables. *Vasconcelos, M.M.*, +, *TCNS March 2020 232-244*

On the Robustness of Complex Systems With Multipartitivity Structures Under Node Attacks. *Cai*, *Q*., +, *TCNS March 2020 106-117*

Two-Way Gaussian Networks With a Jammer and Decentralized Control. McDonald, C., +, TCNS March 2020 446-457

Random variables

Data-Driven I/O Structure Learning With Contemporaneous Causality. Costanzo, J.A.W.B., +, TCNS Dec. 2020 1929-1939

Rate distortion theory

Scalable Consensus in Networks of Multiagent Systems Using High-Gain Observers. Chowdhury, D., +, TCNS Sept. 2020 1237-1247

Real-time systems

Asynchronous Distributed Power Control of Multimicrogrid Systems. *Wang*, Z., +, *TCNS Dec. 2020 1960-1973*

Recursive estimation

A Novel Fault Detection Method Under Weighted Try-Once-Discard Scheduling Over Sensor Networks. Ju, Y, +, TCNS Sept. 2020 1489-1499

Learning Optimal Scheduling Policy for Remote State Estimation Under Uncertain Channel Condition. Wu, S., +, TCNS June 2020 579-591

Reduced order systems

Adaptive Protocol Design For Distributed Tracking With Relative Output Information: A Distributed Fixed-Time Observer Approach. Lv, Y, +, TCNS March 2020 118-128

Dynamic NE Seeking for Multi-Integrator Networked Agents With Disturbance Rejection. *Romano*, A.R., +, TCNS March 2020 129-139

Extremum Seeking Control With Sporadic Packet Transmission for Networked Control Systems. *Premaratne*, U., +, TCNS June 2020 758-769

Fully Distributed Consensus Control for Linear Multiagent Systems: A Reduced-Order Adaptive Feedback Approach. *Li*, *X.*, +, *TCNS June 2020 967-976*

Model Reduction Based Approximation of the Output Controllability Gramian in Large-Scale Networks. *Casadei*, G., +, TCNS Dec. 2020 1778-1788

Remotely operated vehicles

Controlling Parent Systems Through Swarms Using Abstraction. Crandall, K.L., +, TCNS March 2020 210-220

Distributed Data Fusion for On-Scene Signal Sensing With a Multi-UAV System. Du, B., +, TCNS Sept. 2020 1330-1341

Resilience

Performance and Design of Consensus on Matrix-Weighted and Time-Scaled Graphs. Foight, D.R., +, TCNS Dec. 2020 1812-1822

Resource allocation

An Online Mechanism for Resource Allocation in Networks. Pu, S., +, TCNS Sept. 2020 1140-1150

Finite-Time Distributed Convex Optimization for Continuous-Time Multiagent Systems With Disturbance Rejection. Feng, Z., +, TCNS June 2020 686-698

Resource management

Distributed Continuous-Time Algorithms for Optimal Resource Allocation With Time-Varying Quadratic Cost Functions. Wang, B., +, TCNS Dec. 2020 1974-1984

Riccati equations

A Stability Analysis Framework for Multiantenna Multisensor Cyber-Physical Systems With Rank-Deficient Measurement Matrices. *Cai*, *S.*, +, *TCNS March 2020 30-41*

Optimal Control and Stabilization for Networked Control Systems With Asymmetric Information. *Liang, X.*, +, *TCNS Sept. 2020 1355-1365*

Risk management

Estimating the Impact of Cyber-Attack Strategies for Stochastic Networked Control Systems. *Milosevic, J., +, TCNS June 2020 747-757*

Road traffic

How Will the Presence of Autonomous Vehicles Affect the Equilibrium State of Traffic Networks?. Mehr, N., +, TCNS March 2020 96-105

Large-Scale Traffic Signal Offset Optimization. *Ouyang, Y.*, +, *TCNS Sept.* 2020 1176-1187

Robot kinematics

Distributed Communication-Aware Motion Planning for Networked Mobile Robots Under Formal Specifications. *Liu*, *Z*., +, *TCNS Dec. 2020 1801-1911*

Robot sensing systems

Distributed Communication-Aware Motion Planning for Networked Mobile Robots Under Formal Specifications. *Liu*, *Z*., +, *TCNS Dec. 2020 1801-1911*

Robots

Barrier Function Based Collaborative Control of Multiple Robots Under Signal Temporal Logic Tasks. *Lindemann, L.*, +, *TCNS Dec. 2020 1916-1928*

Robust control

Analysis and Design of First-Order Distributed Optimization Algorithms Over Time-Varying Graphs. *Sundararajan, A.*, +, *TCNS Dec. 2020 1597-1608*

Distributed Consensus for Multiple Lagrangian Systems With Parametric Uncertainties and External Disturbances Under Directed Graphs. *Mei, J., TCNS June 2020 648-659*

Distributed Robust Event-Triggered Control Strategy for Multiple High-Speed Trains With Communication Delays and Input Constraints. *Zhao*, H., +, TCNS Sept. 2020 1453-1464

Robust Event-Triggered Dynamic Average Consensus Against Communication Link Failures With Application to Battery Control. *Xing, L.*, +, *TCNS Sept. 2020 1559-1570*

Robust Formation Tracking Control for Multiple Quadrotors Subject to Switching Topologies. Liu, H., +, TCNS Sept. 2020 1319-1329

Robust Stabilization of Input-Affine Nonlinear Systems Under Network Constraints. *Ghodrat, M.*, +, *TCNS June 2020 818-828*

Robustness

Barrier Function Based Collaborative Control of Multiple Robots Under Signal Temporal Logic Tasks. *Lindemann, L.*, +, *TCNS Dec. 2020 1916-1928*

Explicit Characterization of Performance of a Class of Networked Linear Control Systems. *Mousavi, H.K.*, +, *TCNS Dec. 2020 1688-1699*

Output Robustness of Probabilistic Boolean Control Networks With Respect to One-Bit Perturbation. *Zhu*, S., +, *TCNS Dec. 2020 1769-1777*

Tradeoff Between Controllability and Robustness in Diffusively Coupled Networks. *Abbas, W.*, +, *TCNS Dec. 2020 1891-1902*

S

Scheduling

A Novel Fault Detection Method Under Weighted Try-Once-Discard Scheduling Over Sensor Networks. Ju, Y, +, TCNS Sept. 2020 1489-1499

Learning Optimal Scheduling Policy for Remote State Estimation Under Uncertain Channel Condition. Wu, S., +, TCNS June 2020 579-591

Observation-Driven Scheduling for Remote Estimation of Two Gaussian Random Variables. Vasconcelos, M.M., +, TCNS March 2020 232-244

Optimal Scheduling of Water Distribution Systems. Singh, M.K., +, TCNS June 2020 711-723

Schrodinger equation

Relaxed Schrödinger Bridges and Robust Network Routing. Chen, Y., +, TCNS June 2020 923-931

Search problems

Adaptive Secure State Estimation for Cyber-Physical Systems With Low Memory Cost. An, L., +, TCNS Dec. 2020 1621-1632

Robust Distributed Estimation of the Maximum of a Field. *Manfredi*, S., +, TCNS March 2020 372-383

Securit

Resilient Containment Control in Adversarial Environment. Yan, J., +, TCNS Dec. 2020 1951-1959

Security of data

Estimating the Impact of Cyber-Attack Strategies for Stochastic Networked Control Systems. *Milosevic*, J., +, TCNS June 2020 747-757

False Data Injection and Detection in LQG Systems: A Game Theoretic Approach. Zhang, R., +, TCNS March 2020 338-348

Security Against False Data-Injection Attack in Cyber-Physical Systems. Chattopadhyay, A., +, TCNS June 2020 1015-1027

Stochastic Defense Against Complex Grid Attacks. *Bienstock, D.*, +, *TCNS June 2020 842-854*

Semantics

Barrier Function Based Collaborative Control of Multiple Robots Under Signal Temporal Logic Tasks. *Lindemann, L.*, +, *TCNS Dec. 2020 1916-1928*

Sensitivity

Can Taxes Improve Congestion on All Networks?. Brown, P.N., +, TCNS Dec. 2020 1643-1653

Sensor fusion

A Stability Analysis Framework for Multiantenna Multisensor Cyber-Physical Systems With Rank-Deficient Measurement Matrices. *Cai*, *S.*, +, *TCNS March 2020 30-41*

Distributed Data Fusion for On-Scene Signal Sensing With a Multi-UAV System. Du, B., +, TCNS Sept. 2020 1330-1341

Optimal Scheduling of Multiple Sensors Over Lossy and Bandwidth Limited Channels. Wu, S., +, TCNS Sept. 2020 1188-1200

Security Against False Data-Injection Attack in Cyber-Physical Systems. Chattopadhyay, A., +, TCNS June 2020 1015-1027

Sensor placement

Range-Based Coordinate Alignment for Cooperative Mobile Sensor Network Localization. You, K., +, TCNS Sept. 2020 1379-1390

Sensor Network Localization via Alternating Rank Minimization Algorithms. Wan, C., +, TCNS June 2020 1040-1051

Sensor Placement for Optimal Control of Infinite-Dimensional Systems. Hou, Q., +, TCNS March 2020 360-371

Sensor systems

Optimal Scheduling Strategy for Networked Estimation With Energy Harvesting. Vasconcelos, M.M., +, TCNS Dec. 2020 1723-1735

Sensors

A Linear Active Disturbance Rejection Control Approach to Position Synchronization Control for Networked Interconnected Motion System. *Wang*, *Y*, +, *TCNS Dec. 2020 1746-1756*

Analysis and Design of First-Order Distributed Optimization Algorithms Over Time-Varying Graphs. Sundararajan, A., +, TCNS Dec. 2020 1597-1608

Average State Estimation in Large-Scale Clustered Network Systems. *Niazi, M.U.B.*, +, *TCNS Dec. 2020 1736-1745*

Clique-Based Distributed PI Control for Multiagent Coordination With Heterogeneous, Uncertain, Time-Varying Orientations. Sakurama, K., TCNS Dec. 2020 1712-1722

Data-Driven I/O Structure Learning With Contemporaneous Causality. Costanzo, J.A.W.B., +, TCNS Dec. 2020 1929-1939

Servomotors

A Linear Active Disturbance Rejection Control Approach to Position Synchronization Control for Networked Interconnected Motion System. *Wang*, *Y*, +, *TCNS Dec. 2020 1746-1756*

Set theory

A Novel Fault Detection Method Under Weighted Try-Once-Discard Scheduling Over Sensor Networks. *Ju, Y,* +, *TCNS Sept. 2020 1489-1499*

Convex Relaxations of the Network Flow Problem Under Cycle Constraints. Zholbaryssov, M., +, TCNS March 2020 64-73

Distributed Continuous-Time Nonsmooth Convex Optimization With Coupled Inequality Constraints. *Li*, *X*., +, *TCNS March 2020 74-84*

Distributed Submodular Minimization and Motion Planning Over Discrete State Space. *Jaleel, H.*, +, *TCNS June 2020 932-943*

Target Control of Directed Networks based on Network Flow Problems. *Li*, *G*., +, *TCNS June 2020 673-685*

Signal detection

Time-Difference-of-Arrival (TDOA)-Based Distributed Target Localization by A Robotic Network. *Ennasr, O.*, +, *TCNS Sept. 2020 1416-1427*

Signal processing

Distributed H_{∞} Estimation Resilient to Biasing Attacks. *Ugrinovskii, V., TCNS March 2020 458-470*

Strongly Uncontrollable Network Topologies. Aguilar, C.O., TCNS June 2020 878-886

Signal processing algorithms

Data-Driven I/O Structure Learning With Contemporaneous Causality. Costanzo, J.A.W.B., +, TCNS Dec. 2020 1929-1939

Resilient Containment Control in Adversarial Environment. Yan, J., +, TCNS Dec. 2020 1951-1959

Signal sampling

Robust Distributed Estimation of the Maximum of a Field. *Manfredi*, S., +, TCNS March 2020 372-383

Simulation

Distributed Formation Control of Mobile Agents via Global Orientation Estimation. *Van Tran, Q.*, +, *TCNS Dec. 2020 1654-1664*

Single-input single-output systems (control)

Generic Controllability of Networks With Identical SISO Dynamical Nodes. Commault, C., +, TCNS June 2020 855-865

Singular value decomposition

A Stability Analysis Framework for Multiantenna Multisensor Cyber-Physical Systems With Rank-Deficient Measurement Matrices. *Cai*, *S.*, +, *TCNS March 2020 30-41*

Smart power grids

Learning With End-Users in Distribution Grids: Topology and Parameter Estimation. Park, S., +, TCNS Sept. 2020 1428-1440

Protection Placement for Power System State Estimation Measurement Data Integrity. Sou, K.C., TCNS June 2020 638-647

Stochastic Defense Against Complex Grid Attacks. Bienstock, D., +, TCNS June 2020 842-854

Social factors

Can Taxes Improve Congestion on All Networks?. Brown, P.N., +, TCNS Dec. 2020 1643-1653

Control of Learning in Anticoordination Network Games. Eksin, C., +, TCNS Dec. 2020 1823-1835

Social network theory

Multistage Complex Contagions in Random Multiplex Networks. *Zhuang*, Y, +, TCNS March 2020 410-421

Social networking (online)

Optimal Control for Heterogeneous Node-Based Information Epidemics Over Social Networks. Liu, F., +, TCNS Sept. 2020 1115-1126

Social sciences

Opinion Dynamics and Social Power Evolution: A Single–Timescale Model. Jia, P., +, TCNS June 2020 899-911

Space vehicles

Fully Distributed Consensus Control for Linear Multiagent Systems: A Reduced-Order Adaptive Feedback Approach. *Li*, *X*., +, *TCNS June 2020* 967-976

Spread spectrum communication

Joint Cross-Layer Optimization in Real-Time Networked Control Systems. Klugel, M., +, TCNS Dec. 2020 1903-1915

Stability

A Framework of Multiagent Systems Behavioral Control Under State-Dependent Network Protocols. *El-Ferik*, S., +, TCNS June 2020 734-746

Collective Behavior of Heterogeneous Agents in Uncertain Cooperation—Competition Networks: A Nussbaum-Type Function Based Approach. *Hu*, *H*., +, *TCNS June 2020 783-796*

Consensus Over Activity-Driven Networks. Zino, L., +, TCNS June 2020 866-877

Distributed Inference of the Multiplex Network Topology of Complex Systems. Lombana, D.A.B., +, TCNS March 2020 278-287

Distributed Resilient Observer-Based Fault-Tolerant Control for Heterogeneous Multiagent Systems Under Actuator Faults and DoS Attacks. *Deng*, *C.*, +, *TCNS Sept. 2020 1308-1318*

Distributed Rigidity Recovery in Distance-Based Formations Using Configuration Lattice. *Amani, A.M.*, +, *TCNS Sept. 2020 1547-1558*

Distributed Robust Event-Triggered Control Strategy for Multiple High-Speed Trains With Communication Delays and Input Constraints. *Zhao*, H., +, TCNS Sept. 2020 1453-1464

Extremum Seeking Control With Sporadic Packet Transmission for Networked Control Systems. *Premaratne*, U., +, TCNS June 2020 758-769

Finite-Time Consensus for Linear Multiagent Systems via Event-Triggered Strategy Without Continuous Communication. *Du, C.*, +, *TCNS March* 2020 19-29

Optimal Control and Stabilization for Networked Control Systems With Asymmetric Information. *Liang, X.*, +, *TCNS Sept. 2020 1355-1365*

Output-Based Periodic Event-Triggered Control for Nonlinear Plants: An Approximate-Model Method. Yu, H., +, TCNS Sept. 2020 1342-1354

Pinning Controllability of k-Valued Logical Systems. Li, F., +, TCNS Sept. 2020 1523-1533

Secondary Frequency Control With On–Off Load Side Participation in Power Networks. Kasis, A., +, TCNS June 2020 603-613

Stability and Convergence of a Message-Loss-Tolerant Rendezvous Algorithm for Wireless Networked Robot Systems. *Manfredi, S.*, +, *TCNS Sept.* 2020 1103-1114

State estimation

A Stability Analysis Framework for Multiantenna Multisensor Cyber-Physical Systems With Rank-Deficient Measurement Matrices. *Cai*, *S.*, +, *TCNS March 2020 30-41*

Distributed ℓ_1 -State-and-Fault Estimation for Multiagent Systems. Hashimoto, K., +, TCNS June 2020 699-710

Learning Optimal Scheduling Policy for Remote State Estimation Under Uncertain Channel Condition. Wu, S., +, TCNS June 2020 579-591

Reconstructibility Analysis and Observer Design for Boolean Control Networks. Zhang, Z., +, TCNS March 2020 516-528

State Estimation of Multichannel Networked Discrete Event Systems. *Lin*, F, +, TCNS March 2020 53-63

State feedback

Redefined Reconstructibility and State Estimation for Boolean Networks. Yang, J., +, TCNS Dec. 2020 1882-1890

Sampled-Data Set Stabilization of Impulsive Boolean Networks Based on a Hybrid Index Model. *Lin, L.*, +, *TCNS Dec. 2020 1859-1869*

Sensor Placement for Optimal Control of Infinite-Dimensional Systems. Hou, Q., +, TCNS March 2020 360-371

Statistical distributions

Aggregate Fluctuations in Networks With Drift-Diffusion Models Driven by Stable Non-Gaussian Disturbances. *Somarakis, C.*, +, *TCNS Sept. 2020* 1248-1258

Statistics

Can Taxes Improve Congestion on All Networks?. Brown, P.N., +, TCNS Dec. 2020 1643-1653

Steady-state

Mixed Autonomy in Ride-Sharing Networks. Wei, Q., +, TCNS Dec. 2020 1940-1950

Resilient Sensor Placement for Kalman Filtering in Networked Systems: Complexity and Algorithms. Ye, L., +, TCNS Dec. 2020 1870-1881

Stochastic processes

Aggregate Fluctuations in Networks With Drift-Diffusion Models Driven by Stable Non-Gaussian Disturbances. *Somarakis, C.*, +, *TCNS Sept. 2020 1248-1258*

Consensus Over Activity-Driven Networks. Zino, L., +, TCNS June 2020 866-877

Distributed Stopping Criterion for Consensus in the Presence of Delays. *Prakash*, M., +, *TCNS March* 2020 85-95

Learning Optimal Scheduling Policy for Remote State Estimation Under Uncertain Channel Condition. Wu, S., +, TCNS June 2020 579-591

On the Interaction Between Autonomous Mobility-on-Demand Systems and the Power Network: Models and Coordination Algorithms. *Rossi, F.*, +, *TCNS March 2020 384-397*

Optimal Control and Stabilization for Networked Control Systems With Asymmetric Information. *Liang, X.*, +, *TCNS Sept. 2020 1355-1365*

Privacy-Preserving Distributed Online Optimization Over Unbalanced Digraphs via Subgradient Rescaling. *Xiong, Y.*, +, *TCNS Sept. 2020 1366-1378*

Resilient Sensor Placement for Kalman Filtering in Networked Systems: Complexity and Algorithms. *Ye, L.*, +, *TCNS Dec. 2020 1870-1881*

Stochastic Pinning Controllability of Noisy Complex Networks. *Rossa, F.D.*, +, *TCNS Dec. 2020 1678-1687*

Stochastic systems

Consensus Over Activity-Driven Networks. Zino, L., +, TCNS June 2020 866-877

Dissipativity-Based Asynchronous Repetitive Control for Networked Markovian Jump Systems: 2-D System Approach. *Liu, X.*, +, *TCNS Sept. 2020 1212-1224*

Estimating the Impact of Cyber-Attack Strategies for Stochastic Networked Control Systems. *Milosevic, J., +, TCNS June 2020 747-757*

From Dissipativity Theory to Compositional Abstractions of Interconnected Stochastic Hybrid Systems. Awan, A.U., +, TCNS March 2020 433-445

Optimal Control and Stabilization for Networked Control Systems With Asymmetric Information. *Liang, X.*, +, *TCNS Sept. 2020 1355-1365*

Supply chains

Simultaneous Facility Location and Path Optimization in Static and Dynamic Networks. *Srivastava*, A., +, TCNS Dec. 2020 1700-1711

Switching systems (control)

Secondary Frequency Control With On–Off Load Side Participation in Power Networks. Kasis, A., +, TCNS June 2020 603-613

Synchronization

A Linear Active Disturbance Rejection Control Approach to Position Synchronization Control for Networked Interconnected Motion System. *Wang*, *Y*, +, *TCNS Dec.* 2020 1746-1756

Decentralized Heading Control With Rate Constraints Using Pulse-Coupled Oscillators. *Anglea, T., +, TCNS Sept. 2020 1090-1102*

Global Synchronization of Sampled-Data Invariant Systems on Exponential Lie Groups. McCarthy, P.J., +, TCNS Sept. 2020 1080-1089

Т

Target tracking

Distributed Consensus-Based Multitarget Filtering and Its Application in Formation-Containment Control. *Zhang, Y., +, TCNS March 2020 503-515* Time-Difference-of-Arrival (TDOA)-Based Distributed Target Localization by A Robotic Network. *Ennasr, O., +, TCNS Sept. 2020 1416-1427*

Task analysis

Barrier Function Based Collaborative Control of Multiple Robots Under Signal Temporal Logic Tasks. *Lindemann, L.*, +, *TCNS Dec. 2020 1916-1928* Model Reduction Based Approximation of the Output Controllability Gramian in Large-Scale Networks. *Casadei, G.*, +, *TCNS Dec. 2020 1778-1788*

Telecommunication computing

Globally Convergent Distributed Network Localization Using Locally Measured Bearings. *Li*, *X*., +, *TCNS March 2020 245-253*

Security Against False Data-Injection Attack in Cyber-Physical Systems. Chattopadhyay, A., +, TCNS June 2020 1015-1027

Telecommunication control

A Flexible Synthesis Framework of Structured Controllers for Networked Systems. Rosinger, C.A., +, TCNS March 2020 6-18

Strongly Uncontrollable Network Topologies. Aguilar, C.O., TCNS June 2020 878-886

Two-Way Gaussian Networks With a Jammer and Decentralized Control. McDonald, C., +, TCNS March 2020 446-457

Telecommunication network management

A Flexible Synthesis Framework of Structured Controllers for Networked Systems. Rosinger, C.A., +, TCNS March 2020 6-18

Globally Convergent Distributed Network Localization Using Locally Measured Bearings. Li, X., +, TCNS March 2020 245-253

Telecommunication network reliability

Optimal Scheduling of Multiple Sensors Over Lossy and Bandwidth Limited Channels, Wu, S., +, TCNS Sept. 2020 1188-1200

Telecommunication network topology

Bias Estimation in Sensor Networks. Shi, M., +, TCNS Sept. 2020 1534-1546 Strongly Uncontrollable Network Topologies. Aguilar, C.O., TCNS June 2020 878-886

Telecommunication scheduling

A Mean Field Game Approach to Scheduling in Cellular Systems. *Man-jrekar, M.*, +, *TCNS June 2020 568-578*

Observation-Driven Scheduling for Remote Estimation of Two Gaussian Random Variables. Vasconcelos, M.M., +, TCNS March 2020 232-244

Optimal Scheduling of Multiple Sensors Over Lossy and Bandwidth Limited Channels. Wu, S., +, TCNS Sept. 2020 1188-1200

Telecommunication security

Control of Multilayer Mobile Autonomous Systems in Adversarial Environments: A Games-in-Games Approach. Chen, J., +, TCNS Sept. 2020 1056-1068

Resilient Consensus Through Event-Based Communication. Wang, Y., +, TCNS March 2020 471-482

Security Against False Data-Injection Attack in Cyber-Physical Systems. Chattopadhyay, A., +, TCNS June 2020 1015-1027

Telecommunication traffic

Can Taxes Improve Congestion on All Networks?. Brown, P.N., +, TCNS Dec. 2020 1643-1653

Telerobotics

Continuous-Time Optimization Dynamics Mirroring ADMM Architecture and Passivity-Based Robustification Against Delays. Miyano, T., +, TCNS Sept. 2020 1296-1307

Time measurement

Performance and Design of Consensus on Matrix-Weighted and Time-Scaled Graphs. Foight, D.R., +, TCNS Dec. 2020 1812-1822

Time series analysis

Data-Driven I/O Structure Learning With Contemporaneous Causality. Costanzo, J.A.W.B., +, TCNS Dec. 2020 1929-1939

Time-domain analysis

Sampled-Data Set Stabilization of Impulsive Boolean Networks Based on a Hybrid Index Model. *Lin, L., +, TCNS Dec. 2020 1859-1869*

Time-of-arrival estimation

Time-Difference-of-Arrival (TDOA)-Based Distributed Target Localization by A Robotic Network. *Ennasr, O., +, TCNS Sept. 2020 1416-1427*

Time-varying networks

Optimal Distributed Convex Optimization on Slowly Time-Varying Graphs. *Rogozin, A.*, +, *TCNS June 2020 829-841*

Time-varying systems

A Novel Fault Detection Method Under Weighted Try-Once-Discard Scheduling Over Sensor Networks. Ju, Y, +, TCNS Sept. 2020 1489-1499

Distributed Adaptive Time-Varying Group Formation Tracking for Multiagent Systems With Multiple Leaders on Directed Graphs. *Hu, J.*, +, *TCNS March 2020 140-150*

Distributed Consensus for Multiple Lagrangian Systems With Parametric Uncertainties and External Disturbances Under Directed Graphs. *Mei, J., TCNS June 2020 648-659*

Distributed Continuous-Time Algorithms for Optimal Resource Allocation With Time-Varying Quadratic Cost Functions. Wang, B., +, TCNS Dec. 2020 1974-1984

Distributed Resilient Observer-Based Fault-Tolerant Control for Heterogeneous Multiagent Systems Under Actuator Faults and DoS Attacks. *Deng, C.*, +, *TCNS Sept. 2020 1308-1318*

Distributed Stopping Criterion for Consensus in the Presence of Delays. *Prakash*, M., +, *TCNS March* 2020 85-95

Online Optimization as a Feedback Controller: Stability and Tracking. Colombino, M., +, TCNS March 2020 422-432

Stabilizing Scheduling Policies for Networked Control Systems. *Kundu, A.*, +, *TCNS March 2020 163-175*

Topology

Comment on "Detecting Topology Variations in Networks of Linear Dynamical Systems". Roy, S., +, TCNS March 2020 187-188

Distributed Consensus-Based Multitarget Filtering and Its Application in Formation-Containment Control. Zhang, Y., +, TCNS March 2020 503-515

Robust Event-Triggered Dynamic Average Consensus Against Communication Link Failures With Application to Battery Control. *Xing, L.*, +, *TCNS Sept. 2020 1559-1570*

Torque control

Hierarchical Design for Position-Based Formation Control of Rotorcraft-Like Aerial Vehicles. *Zhang, D., +, TCNS Dec. 2020 1789-1800*

Traffic control

Mixed Autonomy in Ride-Sharing Networks. Wei, Q., +, TCNS Dec. 2020 1940-1950

Trajectory

Distributed Communication-Aware Motion Planning for Networked Mobile Robots Under Formal Specifications. *Liu*, *Z*., +, *TCNS Dec. 2020 1801-1811*

Distributed Continuous-Time Algorithms for Optimal Resource Allocation With Time-Varying Quadratic Cost Functions. Wang, B., +, TCNS Dec. 2020 1974-1984

From Matrix-Weighted Consensus to Multipartite Average Consensus. Kwon, S., +, TCNS Dec. 2020 1609-1620

Redefined Reconstructibility and State Estimation for Boolean Networks. Yang, J., +, TCNS Dec. 2020 1882-1890

Stochastic Pinning Controllability of Noisy Complex Networks. *Rossa, F.D.*, +, *TCNS Dec. 2020 1678-1687*

Trajectory control

Collision-Free Trajectory Design for 2-D Persistent Monitoring Using Second-Order Agents. Wang, Y., +, TCNS June 2020 545-557

Trajectory optimization (aerospace)

Trajectory Optimization of Autonomous Agents With Spatio-Temporal Constraints. Meng, X., +, TCNS Sept. 2020 1571-1581

Transfer functions

Extremum Seeking Control With Sporadic Packet Transmission for Networked Control Systems. *Premaratne*, *U.*, +, *TCNS June 2020 758-769*Sparsity Invariance for Convex Design of Distributed Controllers. *Furieri*,

L., +, TCNS Dec. 2020 1836-1847

Transmission networks

Generalized Convex Hull Pricing for the AC Optimal Power Flow Problem. Garcia, M., +, TCNS Sept. 2020 1500-1510

Transportation

Simultaneous Facility Location and Path Optimization in Static and Dynamic Networks. *Srivastava, A.*, +, *TCNS Dec. 2020 1700-1711*

Tree searching

Optimal Energy Consumption for Communication, Computation, Caching, and Quality Guarantee. *Zafari*, F., +, TCNS March 2020 151-162

Trees (mathematics)

Large-Scale Traffic Signal Offset Optimization. Ouyang, Y., +, TCNS Sept. 2020 1176-1187

Tuning

Analysis and Design of First-Order Distributed Optimization Algorithms Over Time-Varying Graphs. *Sundararajan*, A., +, *TCNS Dec.* 2020 1597-1608

U

Ultra reliable low latency communication

Globally Stable Delay Alignment for Feedback Control Over Wireless Multipoint Connections. Wigren, T., +, TCNS Dec. 2020 1633-1642

Uncertain systems

Collective Behavior of Heterogeneous Agents in Uncertain Cooperation— Competition Networks: A Nussbaum-Type Function Based Approach. *Hu*, *H.*, +, *TCNS June 2020 783-796*

Distributed Consensus for Multiple Lagrangian Systems With Parametric Uncertainties and External Disturbances Under Directed Graphs. *Mei, J., TCNS June 2020 648-659*

Distributed Resilient Observer-Based Fault-Tolerant Control for Heterogeneous Multiagent Systems Under Actuator Faults and DoS Attacks. *Deng*, *C.*, +, *TCNS Sept. 2020 1308-1318*

Distributed Robust Event-Triggered Control Strategy for Multiple High-Speed Trains With Communication Delays and Input Constraints. *Zhao*, H., +, TCNS Sept. 2020 1453-1464

Network Design for Controllability Metrics. Becker, C.O., +, TCNS Sept. 2020 1404-1415

Underwater vehicles

Optimal Control and Stabilization for Networked Control Systems With Asymmetric Information. *Liang, X.*, +, *TCNS Sept. 2020 1355-1365*

Upper bound

Analysis and Design of First-Order Distributed Optimization Algorithms Over Time-Varying Graphs. *Sundararajan, A.*, +, *TCNS Dec. 2020 1597-1608*

Sparsity Invariance for Convex Design of Distributed Controllers. *Furieri*, L., +, *TCNS Dec. 2020 1836-1847*

V

Valves

Receding Horizon Control for Drinking Water Networks: The Case for Geometric Programming. *Wang, S.*, +, *TCNS Sept. 2020 1151-1163*

Variable structure systems

Finite-Time Distributed Convex Optimization for Continuous-Time Multiagent Systems With Disturbance Rejection. Feng, Z., +, TCNS June 2020 686-698

Variational techniques

Motion Feasibility Conditions for Multiagent Control Systems on Lie Groups. Colombo, L.J., +, TCNS March 2020 493-502

Vectors

Motion Feasibility Conditions for Multiagent Control Systems on Lie Groups. Colombo, L.J., +, TCNS March 2020 493-502

Vehicle dynamics

Explicit Characterization of Performance of a Class of Networked Linear Control Systems. *Mousavi, H.K.*, +, *TCNS Dec. 2020 1688-1699*

Simultaneous Facility Location and Path Optimization in Static and Dynamic Networks. Srivastava, A., +, TCNS Dec. 2020 1700-1711

Vehicular ad hoc networks

Control of Multilayer Mobile Autonomous Systems in Adversarial Environments: A Games-in-Games Approach. Chen, J., +, TCNS Sept. 2020 1056-1068

Velocity control

Motion Capability Analysis for Multiple Fixed-Wing UAV Formations With Speed and Heading Rate Constraints. *Wang, Y.*, +, *TCNS June 2020 977-989*

Velocity measurement

Hierarchical Design for Position-Based Formation Control of Rotorcraft-Like Aerial Vehicles. Zhang, D., +, TCNS Dec. 2020 1789-1800

Voltage measurement

Joint Estimation of Topology and Injection Statistics in Distribution Grids With Missing Nodes. *Deka, D., +, TCNS Sept. 2020 1391-1403*

Learning With End-Users in Distribution Grids: Topology and Parameter Estimation. Park, S., +, TCNS Sept. 2020 1428-1440

W

Water pumps

Extremum Seeking Control With Sporadic Packet Transmission for Networked Control Systems. *Premaratne*, U., +, TCNS June 2020 758-769

Water supply

Optimal Scheduling of Water Distribution Systems. Singh, M.K., +, TCNS June 2020 711-723

Receding Horizon Control for Drinking Water Networks: The Case for Geometric Programming. Wang, S., +, TCNS Sept. 2020 1151-1163

Wireless channels

Optimal Scheduling of Multiple Sensors Over Lossy and Bandwidth Limited Channels. Wu, S., +, TCNS Sept. 2020 1188-1200

Wireless communication

Globally Stable Delay Alignment for Feedback Control Over Wireless Multipoint Connections. *Wigren, T.*, +, *TCNS Dec. 2020 1633-1642*

Wireless fidelity

Cascading Attacks on Wi-Fi Networks: Theory and Experiments. Xin, L., +, TCNS Dec. 2020 1757-1768

Wireless LAN

Cascading Attacks on Wi-Fi Networks: Theory and Experiments. *Xin, L.*, +, *TCNS Dec. 2020 1757-1768*

Wireless sensor networks

Adaptive Secure State Estimation for Cyber-Physical Systems With Low Memory Cost. An, L., +, TCNS Dec. 2020 1621-1632

Bias Estimation in Sensor Networks. Shi, M., +, TCNS Sept. 2020 1534-1546
Distributed Kalman Filtering Under Model Uncertainty. Zorzi, M., TCNS
June 2020 990-1001

Globally Convergent Distributed Network Localization Using Locally Measured Bearings. Li, X., +, TCNS March 2020 245-253

Observation-Driven Scheduling for Remote Estimation of Two Gaussian Random Variables. *Vasconcelos, M.M.*, +, *TCNS March 2020 232-244*

Optimal Scheduling of Multiple Sensors Over Lossy and Bandwidth Limited Channels. Wu, S., +, TCNS Sept. 2020 1188-1200

Range-Based Coordinate Alignment for Cooperative Mobile Sensor Network Localization. You, K., +, TCNS Sept. 2020 1379-1390

Security Against False Data-Injection Attack in Cyber-Physical Systems. Chattopadhyay, A., +, TCNS June 2020 1015-1027

Sensor Network Localization via Alternating Rank Minimization Algorithms. Wan, C., +, TCNS June 2020 1040-1051

Stability and Convergence of a Message-Loss-Tolerant Rendezvous Algorithm for Wireless Networked Robot Systems. Manfredi, S., +, TCNS Sept. 2020 1103-1114