

IEEE TRANSACTIONS ON SYSTEMS, MAN, AND CYBERNETICS: SYSTEMS

A PUBLICATION OF THE IEEE SYSTEMS, MAN, AND CYBERNETICS SOCIETY

APRIL 2022

VOLUME 52

NUMBER 4

ITSMFE

(ISSN 2168-2216)

PART I OF TWO PARTS

REGULAR PAPERS

Online Sparse Temporal Difference Learning Based on Nested Optimization and Regularized Dual Averaging	<i>T. Song, D. Li, and X. Xu</i>	2042
Adaptive Asymptotic Tracking Control of Uncertain Nonlinear Systems Based on Taylor Decoupling and Event-Trigger	<i>L.-B. Wu, J. H. Park, X.-P. Xie, and Y.-F. Li</i>	2053
Human-Inspired Haptic-Enabled Learning From Prehensile Move Demonstrations	<i>A. Lillienkiold, R. Rahal, P. R. Giordano, C. Pacchierotti, and E. Misimi</i>	2061
Virtual-Goal-Guided RRT for Visual Servoing of Mobile Robots With FOV Constraint	<i>R. Wang, X. Zhang, Y. Fang, and B. Li</i>	2073
Evolutionary Optimization of High-Dimensional Multiobjective and Many-Objective Expensive Problems Assisted by a Dropout Neural Network	<i>D. Guo, X. Wang, K. Gao, Y. Jin, J. Ding, and T. Chai</i>	2084
Nonlinear Filter for Simultaneous Localization and Mapping on a Matrix Lie Group Using IMU and Feature Measurements	<i>H. A. Hashim and A. E. E. Eltoukhy</i>	2098
Prescriptive Inductive Operations on Probabilities Serving to Decision-Making Agents	<i>M. Kárný</i>	2110
Adaptive Event-Triggered Nonfragile State Estimation for Fractional-Order Complex Networked Systems With Cyber Attacks	<i>Y. Tan, M. Xiong, B. Zhang, and S. Fei</i>	2121
Modified Newton Integration Algorithm With Noise Tolerance Applied to Robotics	<i>D. Fu, H. Huang, L. Wei, X. Xiao, L. Jin, S. Liao, J. Fan, and Z. Xie</i>	2134
On State Estimation for Discrete Time-Delayed Memristive Neural Networks Under the WTOD Protocol: A Resilient Set-Membership Approach	<i>H. Liu, Z. Wang, W. Fei, and H. Dong</i>	2145
Coordination of a Class of Underactuated Systems via Sampled-Data-Based Event-Triggered Schemes	<i>X.-Y. Yao, J. H. Park, H.-F. Ding, and M.-F. Ge</i>	2156
Synchronization of Timescale-Type Nonautonomous Neural Networks With Proportional Delays	<i>Q. Xiao, T. Huang, and Z. Zeng</i>	2167

(Contents Continued on Page 2041)

Real-Time Decision Making and Path Planning for Robotic Autonomous Luggage Trolley Collection at Airports	<i>J. Wang and M. Q.-H. Meng</i>	2174
Attention-Based Sequence-to-Sequence Learning for Online Structural Response Forecasting Under Seismic Excitation	<i>T. Li, Y. Pan, K. Tong, C. E. Ventura, and C. W. de Silva</i>	2184
Active Disturbance Rejection Control for Uncertain Nonlinear Systems Subject to Magnitude and Rate Saturation: Application to Aeroengine	<i>L. Yu, X.-M. Sun, and Y.-F. Gao</i>	2201
Fault-Tolerant Containment Control for IT2 Fuzzy Networked Multiagent Systems Against Denial-of-Service Attacks and Actuator Faults	<i>Z. Zhang and J. Dong</i>	2213
Filter for Positive Stochastic Nonlinear Switching Systems With Phase-Type Semi-Markov Parameters and Application	<i>W. Qi, J. H. Park, G. Zong, J. Cao, and J. Cheng</i>	2225
Detecting Mixing Services via Mining Bitcoin Transaction Network With Hybrid Motifs	<i>J. Wu, J. Liu, W. Chen, H. Huang, Z. Zheng, and Y. Zhang</i>	2237
Distributed Stochastic MPC for Networked Linear Systems With a Multirate Sampling Mechanism	<i>H. Yang, H. Zhao, Y. Xia, and Y. Xu</i>	2250
Fuzzy Swarm Control Based on Sliding-Mode Strategy With Self-Organized Omnidirectional Mobile Robots System	<i>D. Yu, C. L. P. Chen, and H. Xu</i>	2262
Spatial Entropy Quartiles-Based Texture-Aware Fractional-Order Unsharp Masking for Visibility Enhancement of Remotely Sensed Images	<i>H. Singh, A. Kumar, L. K. Balyan, and H. N. Lee</i>	2275
Interactive Model Predictive Control for Robot Navigation in Dense Crowds	<i>Y. Chen, F. Zhao, and Y. Lou</i>	2289
WaveletKernelNet: An Interpretable Deep Neural Network for Industrial Intelligent Diagnosis	<i>T. Li, Z. Zhao, C. Sun, L. Cheng, X. Chen, R. Yan, and R. X. Gao</i>	2302
Toward Refined Nash Equilibria for the SET K-COVER Problem via a Memorial Mixed-Response Algorithm	<i>C. Sun, X. Wang, H. Qiu, W. Sun, and Q. Zhou</i>	2313
Resilient Reliable H_∞ Load Frequency Control of Power System With Random Gain Fluctuations	<i>S. Kuppusamy and Y. H. Joo</i>	2324
Model-Based Systems Engineering Tool-Chain for Automated Parameter Value Selection	<i>J. Lu, D. Chen, G. Wang, D. Kiritsis, and M. Törngren</i>	2333
A Novel Approximate Spectral Clustering Algorithm With Dense Cores and Density Peaks	<i>D. Cheng, J. Huang, S. Zhang, X. Zhang, and X. Luo</i>	2348
A Reset Algorithm Solving Coordination With Antagonistic Reciprocity	<i>Y. Zhang, Y. Liu, X. Yang, and J. Qiu</i>	2361
