

REGULAR PAPERS

Control Theory and Applications

Optimal Control of a MIMO Bioreactor System Using Direct Approach

A. Simorgh, A. Razminia, S. Mobayen, and D. Baleanu 1159

Asymptotic Estimation of State, Fault and Perturbation for Nonlinear Systems and Its Fault-tolerant Control Application

J. Lan and R. Patton 1175

Variational Bayesian Adaptive Unscented Kalman Filter for RSSI-based Indoor Localization

B. Yang, X. Jia, and F. Yang 1183

Linear Optimal Estimation for Discrete-time and Continuous-time Systems with Multiple Measurement Delays

N.-N. Jin, S. Liu, and H.-S. Zhang 1194

Advanced Application of Centralized Control for a Scanning Mirror System Based on EtherCAT Fieldbus

R.-Y. Huang, Y.-J. Chen, Y.-X. Chen, C.-W. Cheng, M.-C. Tsai, and A.-C. Lee 1205

Adaptive Robust Control for a Class of Uncertain Neutral Systems with Time Delays and Nonlinear Uncertainties

D. Zhao, Y. Wang, L. Xu, and H. Wu 1215

Sliding Mode Predictive Active Fault-tolerant Control Method for Discrete Multi-faults System

P. Yang, Z. Liu, D. Li, Z. Zhang, and Z. Wang 1228

Adaptive Asymptotic Tracking Fault-tolerant Control of Uncertain Nonlinear Systems with Actuator Failures and Event-triggered Inputs

Y. Yan, L. Wu, N. Zhao, and R. Zhang 1241

Nonfragile Dissipative Synchronization of Reaction-diffusion Complex Dynamical Networks with Coupling Delays

X. Song, R. Zhang, M. Wang, and J. Lu 1252

Adaptive Torsional Vibration Control of the Nonlinear Rolling Mill Main Drive System with Performance Constraints and Sensor Errors

C. Qian, L. Zhang, and C. Hua 1264

Event-triggered Synchronous Distributed Model Predictive Control for Multi-agent Systems

X. Tang, M. Li, S. Wei, and B. Ding 1273

Application of Adaptive Control on Carbon Fiber Diagonal Loom

W. Liu, S. Wang, F. Shi, G. Xu, and Y. Cheng 1283

Observer-based Event-triggered Bipartite Consensus of Linear Multi-agent Systems

J. Zang, X. Chen, and F. Hao 1291

Robust Fractional-order PID Tuning Method for a Plant with an Uncertain Parameter

X. Li and L. Gao 1302

A Fixed-time Distributed Algorithm for Least Square Solutions of Linear Equations

S. Li, W. Ai, J. Wu, and Q. Feng 1311

Distributed Cubature Kalman Filter with Performance Comparison for Large-scale Power Systems

Y. Sun and Y. Zhao 1319

Robot and Applications

Exponential Stability of Two Timoshenko Arms for Grasping and Manipulating an Object

D. Wu, T. Endo, and F. Matsuno 1328

Manipulation Planning with Soft Constraints by Randomized Exploration of the Composite Configuration Space

J. Wang, S. Liu, B. Zhang, and C. Yu 1340

Development and Preclinical Trials of a Surgical Robot System for Endoscopic Endonasal Transsphenoidal Surgery

D. Choi, S. H. Kim, W. Lee, S. Kang, and K. Kim 1352

An Anti-wind Modeling Method of Quadrotor Aircraft and Cascade Controller Design Based on Improved Extended State Observer

H. Xi, D. Zhang, T. Zhou, Y. Yang, and Q. Wei 1363

Distributed Flocking Control of Quad-rotor UAVs with Obstacle Avoidance Under the Parallel-triggered Scheme

F. Huang, P. Wu, and X. Li 1375

A Review on Teleoperation of Mobile Ground Robots: Architecture and Situation Awareness

S. Opiyo, J. Zhou, E. Mwangi, W. Kai, and I. Sunusi 1384

Intelligent Control and Applications

Stabilization of Delayed Fuzzy Neutral-type Systems Under Intermittent Control

R. Vadivel, S. Saravanan, B. Unyong, P. Hammachukiattikul, K.-S. Hong, and G. M. Lee 1408

Event-triggered Iterative Learning Control for Perfect Consensus Tracking of Non-identical Fractional Order Multi-agent Systems

L. Wang and G. Zhang 1426

Classification of Hand Gestures Based on Multi-channel EMG by Scale Average Wavelet Transform and Convolutional Neural Network

D.-C. Oh and Y.-U. Jo 1443

INDEXED IN Science Citation Index Expanded (SciSearch), SCOPUS, INSPEC, Google Scholar, ProQuest, Current Contents/Engineering, Computing and Technology, El-Compendex, Journal Citation Reports/Science Edition, OCLC, Summon by Serial Solutions, Korea Citation Index.

A Joint Publication of Institute of Control, Robotics and Systems and the Korea Institute of Electrical Engineers

IJCAAS

International Journal of Control, Automation, and Systems

