

REGULAR PAPERS

Control Theory and Applications

Computation of Feasible and Invariant Sets for Interpolation-based MPC

I. R. Fitri, J.-S. Kim, S. Yu, and Y. I. Lee 3253

Design of Integral Sliding Mode Control Using Decoupled Disturbance Compensator with Mismatched Disturbances

S. Singh and S. Lee 3264

Backstepping Sliding Mode Trajectory Tracking via Extended State Observer for Quadrotors with Wind Disturbance

H. Wang, N. Li, Y. Wang, and B. Su 3273

Modified Model Free Adaptive Control for a Class of Nonlinear Systems with Multi-threshold Quantized Observations

X. Li, Z. Xu, Y. Lu, J. Cui, and L. Zhang 3285

Receding Horizon Stability Analysis of Delayed Neural Networks with Randomly Occurring Uncertainties

L. Sun, Y. Wang, and W. Wang 3297

Time Delay Compensation for Hardware-in-the-loop Simulation of a Turbojet Engine Fuel Control Unit Using Neural NARX Smith Predictor

M. Nasiri, M. Montazeri-Gh, A. Salehi, and E. Bayati 3309

Event-triggered Networked H_∞ Output Tracking Control Based on Dynamic Compensation Controller

J. Huang, X. Pan, and X. Hao 3318

Resilient Filtering for Delayed Markov Jump Neural Networks via Event-triggered Strategy

W. Xia, Y. Li, Z. Li, S. Du, B. Li, and W. Chen 3332

Nonlinear Filtering Under Stochastic Communication Protocol with Unknown Scheduling Probability

D. Liu, D. Ding, Y. Sun, and G. Wei 3343

A Sequential Design Approach for Switching H_∞ LPV Control

T. He, G. G. Zhu, and S. S. M. Swei 3354

Event-triggered H_∞ Filtering of Continuous-time Switched Linear Systems with Overlapped Mismatching Intervals

Y. Wang, X. Xu, X. Li, L. Cheng, and H. Zhang 3368

Finite-time Containment Control of Nonlinear Delayed Fractional Multi-agent Systems

Z. Wang, S. Liu, and X. Li 3379

Adaptive Fourier Series Neural Network PID Controller

M. Benrabah, K. Kara, O. AitSahed, and M. L. Hadjili 3388

Stability Analysis of a Nonlinear PID Controller

Y.-D. Son, S.-D. Bin, and G.-G. Jin 3400

Robot and Applications

Spatio-semantic Task Recognition: Unsupervised Learning of Task-discriminative Features for Segmentation and Imitation

J. Park, J. Kim, and H. J. Kim 3409

Generalized Control Framework for Exoskeleton Robots by Interaction Force Feedback Control

H. J. Lee, K.-S. Kim, and S. Kim 3419

Irregular Depth Tiles: Automatically Generated Data Used for Network-based Robotic Grasping in 2D Dense Clutter

D.-W. Kim, H. Jo, and J.-B. Song 3428

Integrative Tracking Control Strategy for Robotic Excavation

N. Reginald, J. Seo, and M. Cha 3435

An Output Feedback Position/Speed Regulator for a Torque-driven Inertia Wheel Pendulum

J. Sandoval, R. Kelly, and V. Santibáñez 3451

Distributed Formation Control of Quadrotor UAVs Based on Rotation Matrices without Linear Velocity Feedback

Y. Chen, J. Liang, Z. Miao, and Y. Wang 3464

Redundant Control of a Planar Snake Robot with Prismatic Joints

M. Tanaka, H. Sawabe, M. Nakajima, and R. Ariizumi 3475

Collision Free Motion Planning for Double Turret System Operating in a Common Workspace

Ü. Yerlikaya and R. T. Balkan 3487

Intelligent Control and Applications

Machine Learning-based Automatic Optical Inspection System with Multimodal Optical Image Fusion Network

J. H. Lee, B. H. Kim, and M. Y. Kim 3503

Chaos-PSO-based Motion Planning and Accurate Tracking for Position-posture Control of a Planar Underactuated Manipulator with Disturbance

P. Zhang, X. Lai, Y. Wang, and M. Wu 3511

EMG Based Control of Transhumeral Prosthesis Using Machine Learning Algorithms

N. Y. Sattar, Z. Kausar, S. A. Usama, U. Farooq, and U. S. Khan 3522

An Efficient Computational Hybrid Filter to the SLAM Problem for an Autonomous Wheeled Mobile Robot

A. Panah, H. Motameni, and A. Ebrahimnejad 3533

TECHNICAL NOTES AND CORRESPONDENCE

Improved Controller Design with Two Gain-scaling Factors for Global Asymptotic Stabilization of Nonlinear Systems via Matrix Inequality Approach

S.-Y. Oh and H.-L. Choi 3543

INDEXED IN Science Citation Index Expanded (SciSearch), SCOPUS, INSPEC, Google Scholar, ProQuest, Current Contents/Engineering, Computing and Technology, EI-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