

IEEE TRANSACTIONS ON AUTOMATIC CONTROL

A PUBLICATION OF THE IEEE CONTROL SYSTEMS SOCIETY



AUGUST 2016

VOLUME 61

NUMBER 8

IETAA9

(ISSN 0018-9286)

Scanning the Issue 2017

REGULAR PAPERS

Distributed Consensus of Second-Order Multi-Agent Systems With Heterogeneous Unknown Inertias and Control Gains Under a Directed Graph	<i>J. Mei, W. Ren, and J. Chen</i>	2019
Approximate Kalman-Bucy Filter for Continuous-Time Semi-Markov Jump Linear Systems	<i>B. de Saporta and E. F. Costa</i>	2035
On Feedback Architectures With Zero-Vibration Signal Shapers	<i>T. Vyhlídal, M. Hromčík, V. Kučera, and M. Anderle</i>	2049
Dissipativity-Based Small-Gain Theorems for Stochastic Network Systems	<i>Z. Wu, H. R. Karimi, and P. Shi</i>	2065
Event-Triggered State Observers for Sparse Sensor Noise/Attacks	<i>Y. Shoukry and P. Tabuada</i>	2079
A General Framework for Robust Output Synchronization of Heterogeneous Nonlinear Networked Systems	<i>L. Zhu, Z. Chen, and R. H. Middleton</i>	2092
A Notion of Robustness for Cyber-Physical Systems	<i>M. Rungger and P. Tabuada</i>	2108
Near-Optimal Strategies for Nonlinear and Uncertain Networked Control Systems	<i>L. Buşoniu, R. Postoyan, and J. Daafouz</i>	2124
A Uniform Approach for Synthesizing Property-Enforcing Supervisors for Partially-Observed Discrete-Event Systems	<i>X. Yin and S. Lafortune</i>	2140
Motion Planning for Continuous-Time Stochastic Processes: A Dynamic Programming Approach	<i>P. Mohajerin Esfahani, D. Chatterjee, and J. Lygeros</i>	2155
A Characterization of the Minimal Average Data Rate That Guarantees a Given Closed-Loop Performance Level	<i>E. I. Silva, M. S. Derpich, J. Østergaard, and M. A. Encina</i>	2171
On the Steady-State Control of Timed Event Graphs With Firing Date Constraints	<i>V. M. Gonçalves, C. A. Maia, and L. Hardouin</i>	2187
Characterization and Optimization of l_∞ Gains of Linear Switched Systems	<i>M. Naghnaeian and P. G. Voulgaris</i>	2203

TECHNICAL NOTES AND CORRESPONDENCE

An IQC Approach to Robust Stability of Aperiodic Sampled-Data Systems	<i>C.-Y. Kao</i>	2219
A Homogeneous and Self-Dual Interior-Point Linear Programming Algorithm for Economic Model Predictive Control	<i>L. E. Sokoler, G. Frison, A. Skajaa, R. Halvgaard, and J. B. Jørgensen</i>	2226
Containment Control of Single-Integrator Network With Limited Communication Data Rate	<i>X. Mu and K. Liu</i>	2232
On Positive-Realness and Lyapunov Functions for Switched Linear Differential Systems	<i>J. C. Mayo-Maldonado and P. Rapisarda</i>	2239
Reference Tracking With Guaranteed Error Bound for Constrained Linear Systems	<i>S. Di Cairano and F. Borrelli</i>	2245
On Minimal Spectral Factors With Zeroes and Poles Lying on Prescribed Regions	<i>G. Baggio and A. Ferrante</i>	2251
Finite-Time Synchronization of Coupled Networks With Markovian Topology and Impulsive Effects	<i>X. Yang and J. Lu</i>	2256
Feedback Linearization for Nonlinear Systems With Time-Varying Input and Output Delays by Using High-Gain Predictors	<i>J. Lei and H. K. Khalil</i>	2262

(Contents Continued on Back Cover)



Properties of Composite Laplacian Quadratics and Their Applications in Consensus of Linear Differential Inclusions	<i>F. Chen, L. Xiang, and W. Ren</i>	2269
Maximum Likelihood Estimation of the Non-Parametric FRF for Pulse-Like Excitations	<i>R. Hostettler, W. Birk, and M. Lundberg Nordenvaad</i>	2276
Slide Window Bounded-Error Time-Varying Systems Identification	<i>J. M. Bravo, A. Suarez, M. Vasallo, and T. Alamo</i>	2282
Backstepping Design of Robust Output Feedback Regulators for Boundary Controlled Parabolic PDEs	<i>J. Deutscher</i>	2288
Frequency-Domain Analysis of Control Loops With Intermittent Data Losses	<i>D. Antunes and W. P. M. H. Heemels</i>	2295
On the Characterization of Local Nash Equilibria in Continuous Games	<i>L. J. Ratliff, S. A. Burden, and S. S. Sastry</i>	2301
A Comparison of LQR Optimal Performance in the Decentralized and Centralized Settings	<i>D. E. Miller</i>	2308
Crowd-Averse Cyber-Physical Systems: The Paradigm of Robust Mean-Field Games	<i>D. Bauso and H. Tembine</i>	2312
Global Asymptotic Stabilization of Nonlinear Deterministic Systems Using Wiener Processes	<i>K. Hoshino, Y. Nishimura, Y. Yamashita, and D. Tsubakino</i>	2318
