

IEEE TRANSACTIONS ON AUTOMATIC CONTROL

A PUBLICATION OF THE IEEE CONTROL SYSTEMS SOCIETY



JUNE 2014

VOLUME 59

NUMBER 6

IETAA9

(ISSN 0018-9286)

Scanning The Issue 1393

PAPERS

Lyapunov-Based Small-Gain Theorems for Hybrid Systems	<i>D. Liberzon, D. Nesić, and A. R. Teel</i>	1395
Youla-Like Parametrizations Subject to QI Subspace Constraints	<i>Ş. Sabău and N. C. Martins</i>	1411
Online Markov Decision Processes With Kullback–Leibler Control Cost	<i>P. Guan, M. Raginsky, and R. M. Willett</i>	1423
Distributed RHC for Tracking and Formation of Nonholonomic Multi-Vehicle Systems	<i>P. Wang and B. Ding</i>	1439
Secure Estimation and Control for Cyber-Physical Systems Under Adversarial Attacks	<i>H. Fawzi, P. Tabuada, and S. Diggavi</i>	1454
Quickest Detection of a Random Pulse in White Gaussian Noise	<i>A. Komae</i>	1468
Minimizing Convergence Error in Multi-Agent Systems Via Leader Selection: A Supermodular Optimization Approach	<i>A. Clark, B. Alomair, L. Bushnell, and R. Poovendran</i>	1480
Optimal Power Management in Wireless Control Systems	<i>K. Gatsis, A. Ribeiro, and G. J. Pappas</i>	1495
Stability Analysis of A Class of Hybrid Stochastic Retarded Systems Under Asynchronous Switching	<i>Y. Kang, D.-H. Zhai, G.-P. Liu, Y.-B. Zhao, and P. Zhao</i>	1511
Distributed Constrained Optimization by Consensus-Based Primal-Dual Perturbation Method	<i>T.-H. Chang, A. Nedić, and A. Scaglione</i>	1524
Tracking Control for Nonlinear Networked Control Systems	<i>R. Postoyan, N. van de Wouw, D. Nešić, and W. P. M. H. Heemels</i>	1539
Compensation of Wave Actuator Dynamics for Nonlinear Systems	<i>N. Bekiaris-Liberis and M. Krstic</i>	1555

TECHNICAL NOTES AND CORRESPONDENCE

Consensus of Networked Mechanical Systems With Communication Delays: A Unified Framework	<i>H. Wang</i>	1571
Robust Stabilization of the Generalized Triangular Form Nonlinear Systems With Disturbances	<i>S. N. Dashkovskiy and S. S. Pavlichkov</i>	1577

(Contents Continued on Back Cover)



Optimal Placement of Marine Protected Areas: a Trade-off Between Fisheries Goals and Conservation Efforts	<i>P. De Leenheer</i>	1583
Robust Sinusoid Identification With Structured and Unstructured Measurement Uncertainties	<i>G. Pin, B. Chen, T. Parisini, and M. Bodson</i>	1588
Exponential Stability of Homogeneous Positive Systems of Degree One With Time-Varying Delays	<i>H. R. Feyzmahdavian, T. Charalambous, and M. Johansson</i>	1594
On Weak-Invariance Principles for Nonlinear Switched Systems	<i>B. Zhang and Y. Jia</i>	1600
Stability of Prioritized Scheduling Policies in Manufacturing Systems With Setup Times	<i>F. Tubilla and S. B. Gershwin</i>	1606
Jointly Optimal LQG Quantization and Control Policies for Multi-Dimensional Systems	<i>S. Yüksel</i>	1612
Robust Static Output Feedback Controllers via Robust Stabilizability Functions	<i>G. Chesi</i>	1618
Robust Adaptive Control for a Class of MIMO Nonlinear Systems by State and Output Feedback	<i>S. S. Ge and Z. Li</i>	1624
Further Results on Disturbance Decoupling of Mix-Valued Logical Networks	<i>L. Zhang, J.-E. Feng, X. Feng, and J. Yao</i>	1630
Adaptive Control of Spatially Invariant Systems: A Slowly Varying Approach	<i>A. Sarwar, P. G. Voulgaris, and S. M. Salapaka</i>	1635
Convex Conditions on Decentralized Control for Graph Topology Preservation	<i>M. Fiacchini and I.-C. Morărescu</i>	1640
Saturated Delayed Controls for Feedforward Nonlinear Systems	<i>H. Ye</i>	1646
Averaging Criteria for Asymptotic Stability of Time-Varying Systems	<i>J. Tsinias and A. Stamatii</i>	1654
Stabilizing Linear Model Predictive Control Under Inexact Numerical Optimization	<i>M. Rubagotti, P. Patrinos, and A. Bemporad</i>	1660
Stabilization of Discrete-Time Linear Systems Subject to Input Saturation and Multiple Unknown Constant Delays	<i>X. Wang, A. Saberi, and A. A. Stoorvogel</i>	1667
Robust Distributed Model Predictive Control of Constrained Continuous-Time Nonlinear Systems: A Robustness Constraint Approach	<i>H. Li and Y. Shi</i>	1673
