

# IEEE TRANSACTIONS ON AUTOMATIC CONTROL

A PUBLICATION OF THE IEEE CONTROL SYSTEMS SOCIETY



JANUARY 2011

VOLUME 56

NUMBER 1

IETAA9

(ISSN 0018-9286)

---

Scanning the Issue ..... 1

---

PAPERS

Disturbance Decoupling of Boolean Control Networks .....	<i>D. Cheng</i>	2
Stability Crossing Set for Systems With Three Delays .....	<i>K. Gu and M. Naghnaeian</i>	11
Supervisory Control of Uncertain Linear Time-Varying Systems .....	<i>L. Vu and D. Liberzon</i>	27
Step Tracking in the Presence of Persistent Plant Changes .....	<i>J. R. Vale and D. E. Miller</i>	43
Optimal Gaits for Mechanical Rectifier Systems .....	<i>J. Blair and T. Iwasaki</i>	59
Networked Predictive Control of Uncertain Constrained Nonlinear Systems: Recursive Feasibility and Input-to-State Stability Analysis .....	<i>G. Pin and T. Parisini</i>	72
Controllability and Observability of a Well-Posed System Coupled With a Finite-Dimensional System .....	<i>X. Zhao and G. Weiss</i>	88
How to Make Bias and Variance Errors Insensitive to System and Model Complexity in Identification .....	<i>J. Mårtensson and H. Hjalmarsson</i>	100
Linear-Quadratic Optimal Actuator Location .....	<i>K. Morris</i>	113

---

TECHNICAL NOTES AND CORRESPONDENCE

Necessary and Sufficient Conditions for BIBO-Stability of Some Fractional Delay Systems of Neutral Type .....	<i>K. Akbari Moornani and M. Haeri</i>	125
Adaptive Delta Modulation in Networked Controlled Systems With bounded Disturbances .....	<i>F. Gómez-Estern, C. Canudas-de-Wit, and F. R. Rubio</i>	129
Optimal Control and Scheduling of Switched Systems .....	<i>D. Görges, M. Izák, and S. Liu</i>	135
Robust Stability via Sign-Definite Decomposition .....	<i>L. H. Keel and S. P. Bhattacharyya</i>	140
Robust Consensus Controller Design for Nonlinear Relative Degree Two Multi-Agent Systems With Communication Constraints .....	<i>U. Münz, A. Papachristodoulou, and F. Allgöwer</i>	145
Comments on "Improvement on Stability Analysis for Linear Systems Under State Saturation" ...	<i>T. Shen and Y. Zhang</i>	152

(Contents Continued on Back Cover)

请阅后放回:

排架号 E228 处



---

Modular Adaptive Control of Uncertain Euler–Lagrange Systems With Additive Disturbances .....	<i>P. M. Patre, W. MacKunis, K. Dupree, and W. E. Dixon</i>	155
A Structurally Stable Globally Adaptive Internal Model Regulator for MIMO Linear Systems .....	<i>G. Obregón-Pulido, B. Castillo-Toledo, and A. G. Loukianov</i>	160
Inference-Based Decentralized Prognosis in Discrete Event Systems .....	<i>S. Takai and R. Kumar</i>	165
Adaptive Control for Plants in the Presence of Actuator and Sensor Uncertain Hysteresis .....	<i>X. Chen and T. Ozaki</i>	171
Decentralized Fault Tolerant Control of a Class of Interconnected Nonlinear Systems .....	<i>P. Panagi and M. M. Polycarpou</i>	178
General Framework for Mobile Robot Navigation Using Passivity-Based MPC .....	<i>A. Tahirovic and G. Magnani</i>	184
Positivity Preservation Properties of the Rantzer Multipliers .....	<i>V. V. Kulkarni, L. Y. Pao, and M. G. Safonov</i>	190
Stochastic Tubes in Model Predictive Control With Probabilistic Constraints .....	<i>M. Cannon, B. Kouvaritakis, S. V. Răković, and Q. Cheng</i>	194
Output Consensus of Heterogeneous Uncertain Linear Multi-Agent Systems .....	<i>H. Kim, H. Shim, and J. H. Seo</i>	200
Finite-Time Rendezvous Algorithms for Mobile Autonomous Agents .....	<i>Q. Hui</i>	207
Exponential Stabilization of the Uncertain Wave Equation via Distributed Dynamic Input Extension .....	<i>Y. Orlov, A. Pisano, and E. Usai</i>	212
Reset Times-Dependent Stability of Reset Control Systems .....	<i>A. Baños, J. Carrasco, and A. Barreiro</i>	217
Further Results on Exponential Estimates of Markovian Jump Systems With Mode-Dependent Time-Varying Delays ...	<i>H. Gao, Z. Fei, J. Lam, and B. Du</i>	223
Reducing the Complexity of the Sum-of-Squares Test for Stability of Delayed Linear Systems .....	<i>Y. Zhang, M. Peet, and K. Gu</i>	229
Corrections to “A High-Order Internal Model Based Iterative Learning Control Scheme for Nonlinear Systems With Time-Iteration-Varying Parameters” .....	<i>C. Yin, J.-X. Xu, and Z. Hou</i>	235

---