

# IEEE TRANSACTIONS ON AUTOMATIC CONTROL

A PUBLICATION OF THE IEEE CONTROL SYSTEMS SOCIETY



SEPTEMBER 2011

VOLUME 56

NUMBER 9

IETAA9

(ISSN 0018-9286)

---

Scanning The Issue ..... 1997

---

PAPERS

A Maximum Entropy Solution of the Covariance Extension Problem for Reciprocal Processes .....	F. P. Carli, A. Ferrante, M. Pavon, and G. Picci	1999
Remote State Estimation With Communication Costs for First-Order LTI Systems .....	G. M. Lipsa and N. C. Martins	2013
Minimum Energy Guidance for Aerodynamically Controlled Missiles .....	R. W. Morgan, H. Tharp, and T. L. Vincent	2026
The Value of Side Information in Shortest Path Optimization .....	M. Rinehart and M. A. Dahleh	2038
Verification of Hybrid Automata Diagnosability by Abstraction .....	M. D. Di Benedetto, S. Di Gennaro, and A. D'Innocenzo	2050
Computation of Convergence Bounds for Volterra Series of Linear-Analytic Single-Input Systems .....	T. Hélie and B. Laroche	2062
Singular Value Analysis Of Nonlinear Symmetric Systems .....	T. C. Ionescu, K. Fujimoto, and J. M. A. Scherpen	2073
Quantized Consensus and Averaging on Gossip Digraphs .....	K. Cai and H. Ishii	2087
Stability Analysis of Networked Control Systems Using a Switched Linear Systems Approach .....	M. C. F. Donkers, W. P. M. H. Heemels, N. van de Wouw, and L. Hetel	2101
A Self-Tuning Robust Regulator for Infinite-Dimensional Systems .....	T. Hämäläinen and S. Pohjolainen	2116
Temporal Difference Methods for General Projected Equations .....	D. P. Bertsekas	2128

---

TECHNICAL NOTES AND CORRESPONDENCE

Model Matching for Asynchronous Sequential Machines With Uncontrollable Inputs .....	J.-M. Yang and S. W. Kwak	2140
On the Effect of Stochastic Delay on Estimation .....	V. Gupta	2145
Adaptive Gaussian Sum Filter for Nonlinear Bayesian Estimation .....	G. Terejanu, P. Singla, T. Singh, and P. D. Scott	2151
Optimal Smoothing for Finite State Hidden Reciprocal Processes .....	L. B. White and F. Carravetta	2156

(Contents Continued on Back Cover)

请阅后放回:

排架号 E228 处



---

Control of Equilibria for Nonlinear Stochastic Discrete-Time Systems .....	I. Bashkirtseva and L. Ryashko	2162
Multi-stage Anti-Windup Compensation for Open-loop Stable Plants .....	S. Sajjadi-Kia and F. Jabbari	2166
A New Model Transformation of Discrete-Time Systems With Time-Varying Delay and Its Application to Stability Analysis .....	X. Li and H. Gao	2172
Global Tracking via Output Feedback for Nonlinear MIMO Systems .....	K. Kvaternik and A. F. Lynch	2179
Backstepping Design for Incremental Stability .....	M. Zamani and P. Tabuada	2184
Optimal Periodic Sensor Scheduling With Limited Resources .....	L. Shi, P. Cheng, and J. Chen	2190
On Solving Optimal Policies for Finite-Stage Event-Based Optimization .....	Q.-S. Jia	2195
Stochastic Filtering for Diffusion Processes With Level Crossings .....	A. Capponi, I. Fatkullin, and L. Shi	2201
On Nonsingularity Verification of Uncertain Matrices Over a Quadratically Constrained Set .....	T. Zhou	2206
Extended Lie Brackets for Nonlinear Time-Delay Systems .....	C. Califano, L. A. Marquez-Martinez, and C. H. Moog	2213
The Bounded Real Lemma for Internally Positive Systems and H-Infinity Structured Static State Feedback .....	T. Tanaka and C. Langbort	2218
Robust Partial-State Feedback Prescribed Performance Control of Cascade Systems With Unknown Nonlinearities .....	C. P. Bechlioulis and G. A. Rovithakis	2224
Stabilization of Switched Nonlinear Systems With All Unstable Modes: Application to Multi-Agent Systems .....	H. Yang, B. Jiang, V. Cocquempot, and H. Zhang	2230
Optimal State Estimation for Discrete-Time Markovian-Jump Linear Systems, in the Presence of Delayed Output Observations .....	I. Matei and J. S. Baras	2235

---