



automatica

A Journal of IFAC the International
Federation of Automatic Control

Volume 43

Number 10

ISSN 0005-1098

October 2007

CONTENTS

REGULAR PAPERS

- D.W. Kim, J.B. Park and Y.H. Joo 1671 Effective digital implementation of fuzzy control systems based on approximate discrete-time models
- F. Felici, J.-W. van Wingerden and M. Verhaegen 1684 Subspace identification of MIMO LPV systems using a periodic scheduling sequence
- G. Pillonetto and B.M. Bell 1698 Bayes and empirical Bayes semi-blind deconvolution using eigenfunctions of a prior covariance
- X. Chen, H. Bai, L. Xia and Y.-C. Ho 1713 Design of a randomly distributed sensor network for target detection
- J. Antoni and J. Schoukens 1723 A comprehensive study of the bias and variance of frequency-response-function measurements: Optimal window selection and overlapping strategies
- T. Dobrowiecki and J. Schoukens 1737 Measuring a linear approximation to weakly nonlinear MIMO systems
- Y. Zhao, L.Y. Wang, G.G. Yin and J.-F. Zhang 1752 Identification of Wiener systems with binary-valued output observations

BRIEF PAPERS

- T. Sugie and F. Sakai 1766 Noise tolerant iterative learning control for a class of continuous-time systems
- Z. Sun and Y. Liu 1772 Adaptive state-feedback stabilization for a class of high-order nonlinear uncertain systems
- Y. Niu, D.W.C. Ho and X. Wang 1784 Sliding mode control for Itô stochastic systems with Markovian switching
- T.-W. Yoon, J.-S. Kim and A.S. Morse 1791 Supervisory control using a new control-relevant switching
- M. Sun, J. Lam, S. Xu and Y. Zou 1799 Robust exponential stabilization for Markovian jump systems with mode-dependent input delay

Continued on outside back cover

Continued from outside front cover

- | | | |
|---|------|---|
| C.N. Jones, E.C. Kerrigan and
J.M. Maciejowski | 1808 | Lexicographic perturbation for multiparametric linear programming with applications to control |
| F. Blanchini, S. Miani and C. Savorgnan | 1817 | Stability results for linear parameter varying and switching systems |
| C. Wen, S. Wang, X. Jin and X. Ma | 1824 | Identification of dynamic systems using Piecewise-Affine basis function models |
| C. Zhang, A. Siranosian and M. Krstić | 1832 | Extremum seeking for moderately unstable systems and for autonomous vehicle target tracking without position measurements |
| Y. Hong and B. Yao | 1840 | A globally stable saturated desired compensation adaptive robust control for linear motor systems with comparative experiments |
| V. Kariwala | 1849 | Fundamental limitation on achievable decentralized performance |
| TECHNICAL COMMUNIQUE | | |
| P. Park and J.W. Ko | 1855 | Stability and robust stability for systems with a time-varying delay |

INDEXED/ABSTRACTED IN: *Appl. Mech. Rev.*, *Curr. Cont.*, *ASCA*, *Aqua. Abstr.*, *Cam. Sci. Abstr.*, *Curr. Cont.*, *CompuMath*, *Curr. Cont./Eng. Tech. & Applied Sci.*, *Comput. Cont.*, *Eng. Ind.*, *INSPEC Data.*, *Info. Sci. Abstr.*, *Math. R.*, *Oper. Res. Manage. Sci.*, *PASCAL-CNRS Data.*, *Curr. Cont. Sci. Cit. Ind.*, *Curr. Cont. SCISEARCH Data.*, *SSSA/CISA/ECA/ISMEC*, *Zentralblatt für Mathematik*. Also covered in the abstract and citation database *SCOPUS*. Full text available on *ScienceDirect*.

Available online at



0005-1098(200710)43:10;1-G

ISSN 0005-1098



ELSEVIER