



automatica

A Journal of **IFAC** the International
Federation of Automatic Control

Volume 43

Number 11

ISSN 0005-1098

November 2007

CONTENTS

REGULAR PAPERS

- | | | |
|--|------|---|
| S.R. Anderson and V. Kadiramanathan | 1859 | Modelling and identification of non-linear deterministic systems in the delta-domain |
| X. Tang, G. Tao and S.M. Joshi | 1869 | Adaptive actuator failure compensation for nonlinear MIMO systems with an aircraft control application |
| S. Teng, L.H. Lee and E.P. Chew | 1884 | Multi-objective ordinal optimization for simulation optimization problems |
| A. Costa and F.J. Vázquez-Abad | 1896 | Adaptive stepsize selection for tracking in a regime-switching environment |
| L. Marconi and R. Naldi | 1909 | Robust full degree-of-freedom tracking control of a helicopter |
| J.C. Aleixo, J.W. Polderman and P. Rocha | 1921 | Representations and structural properties of periodic systems |
| L. Li, V.A. Ugrinovskii and R. Orsi | 1932 | Decentralized robust control of uncertain Markov jump parameter systems via output feedback |

BRIEF PAPERS

- | | | |
|---|------|---|
| J. Sun, I.V. Kolmanovsky, R. Ghaemi and S. Chen | 1945 | A stable block model predictive control with variable implementation horizon |
| A. Sinha and D. Ghose | 1954 | Generalization of nonlinear cyclic pursuit |
| M.E. Salgado, D.A. Oyarzún and E.I. Silva | 1961 | \mathcal{H}_2 optimal ripple-free deadbeat controller design |
| T. Boukhobza and F. Hamelin | 1968 | Observability analysis for structured bilinear systems: A graph-theoretic approach |

Continued on outside back cover

Continued from outside front cover

- | | | |
|-------------------------|------|---|
| T. Hamel and R. Mahony | 1975 | Image based visual servo control for a class of aerial robotic systems |
| A. Leva and L. Bascetta | 1984 | Set point tracking optimisation by causal nonparametric modelling |
| | | TECHNICAL COMMUNIQUE |
| G. Chesi | 1992 | Establishing tightness in robust \mathcal{H}_∞ analysis via homogeneous parameter-dependent Lyapunov functions |

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

 **ScienceDirect**
www.sciencedirect.com



0005-1098(200711)43:11;1-E

ISSN 0005-1098



ELSEVIER