

automatica

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

Volume 36 Number 6

June 2000

CONTENTS

SURVEY PAPER

- D.Q. Mayne, J.B. Rawlings, C.V. Rao and
P.O.M. Scokaert 789 Constrained model predictive control: Stability and optimality

REGULAR PAPERS

- | | | |
|--|-----|---|
| J. Glaria, R. Rojas, M. Salgado and M. Vera | 815 | Regulation by tables |
| D. Di Ruscio | 831 | A weighted view on the partial least-squares algorithm |
|
 | | |
| R.M. Palhares and P.L.D. Peres | 851 | Robust filtering with guaranteed energy-to-peak performance — an LMI approach |
| Y.-Y. Cao and J. Lam | 859 | On simultaneous H_∞ control and strong H_∞ stabilization |
| C.R. Edgar and B.E. Postlethwaite | 867 | MIMO fuzzy internal model control |
| F. Caccavale, P. Chiacchio and S. Chiaverini | 879 | Task-space regulation of cooperative manipulators |
| Y. Miyasato | 889 | A model reference adaptive controller for systems with uncertain relative degrees $r, r+1$ or $r+2$ and unknown signs of high-frequency gains |
| B. Hu and A.N. Michel | 897 | Stability analysis of digital feedback control systems with time-varying sampling periods |
| Y. Zhang, C. Wen and Y.C. Soh | 907 | Robust decentralized adaptive stabilization of interconnected systems with guaranteed transient performance |
|
 | | |

TECHNICAL COMMUNIQUES

- | | | |
|------------------------------------|-----|---|
| S.-H. Lee, T.-H. Kim and J.-T. Lim | 917 | A new stability analysis of switched systems |
| C.-F. Yung | 923 | Reduced-order H^∞ controller design — an algebraic Riccati equation approach |
|
 | | |

BOOK REVIEWS

- | | | |
|--------------|-----|--|
| A. Bagchi | 927 | <i>System Dynamics in Economic and Financial Models</i> by C. Hey, H. Schumacher,
B. Hanzon and K. Praagman |
| H. Unbehauen | 928 | <i>Digital Control Systems</i> by P.N. Paraskevopoulos |

INDEXED/ABSTRACTED IN: *Appl. Mech. Rev.*, *Curr. Cont.*, ASCA, *Aqua. Abstr.*, *Cam. Sci. Abstr.*, *Curr. Cont.*, Compr. Math., *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