



automatica

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

Volume 37 Number 1

January 2001

CONTENTS

		SURVEY PAPER
G. O. Guardabassi and S. M. Savaresi	1	Approximate linearization via feedback — an overview
		REGULAR PAPERS
E. Prempain and I. Postlethwaite	17	Feedforward control: a full-information approach
S. Jørgensen and G. Zaccour	29	Incentive equilibrium strategies and welfare allocation in a dynamic game of pollution control
		BRIEF PAPERS
F. Z. Chaoui, F. Giri and M. M'Saad	37	Asymptotic stabilization of linear plants in presence of input and output saturations
K. Suyama	43	Finite spectrum assignment for linear systems with non-commensurate time-delays
S. Hu and J. Wang	51	Quadratic stabilizability of a new class of linear systems with structural independent time-varying uncertainty
A. Armaou and P. D. Christofides	61	Robust control of parabolic PDE systems with time-dependent spatial domains
P. Lucibello and G. Oriolo	71	Robust stabilization via iterative state steering with an application to chained-form systems
T. Knudsen	81	Consistency analysis of subspace identification methods based on a linear regression approach
V. Ionescu, S.-I. Niculescu, J.-M. Dion, L. Dugard and H. Li	91	Generalized Popov theory applied to state-delayed systems
B. David and G. Bastin	99	An estimator of the inverse covariance matrix and its application to ML parameter estimation in dynamical systems
J. N. Nielsen and H. Madsen	107	Applying the EKF to stochastic differential equations with level effects
Z. Ding		Global output regulation of systems with exogenous
A. Piazzi and A. Visioli		regulation of scalar systems

Ref: PF 120201/05
AUTOMATICA (JOURNAL OF IFAC)
01.01.01 Vol. 37 No. 1
0005-1098 22101144
LIBRIS - C2
144 BOULEVARD KRIM BELKACEM
ALGER
ALGERIE

Df: 29981654

10.10.01

Continued on outside back cover



Pergamon

Continued from outside front cover

A. Ferrara and L. Giacomini	129	On modular backstepping design with second order sliding modes
K. Fujimoto and T. Sugie	137	Freedom in coordinate transformation for exact linearization and its application to transient behavior improvement
TECHNICAL COMMUNIQUE		
Z. Pan	145	Differential geometric condition for feedback complete linearization of stochastic nonlinear system
D. Angeli, A. Casavola and E. Mosca	151	On feasible set-membership state estimators in constrained command governor control
CORRESPONDENCE		
Z. Gajic and M. Lelic	157	Comments on the review of the book <i>Modern Control System Engineering</i>
BOOK REVIEWS		
J. Lunze	159	Discrete-event system theory — an introduction by A. Tornamè
L. Yu and M. Yang	160	Robust control system design, advanced state space techniques by C.-C. Tsui

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*

CONTENTS
direct

This journal is part of **ContentsDirect**, the *free* alerting service which sends tables of contents by e-mail for Elsevier Science books and journals. You can register for **ContentsDirect** online at: www.elsevier.nl/locate/contentsdirect



0005-1098(200101)37:1;1-9

ISSN 0005-1098



Pergamon