

automatica

A Journal of IFAC The International Federation of Automatic Control

Contents continued from outside back cover

G. Herrmann, S.K. Spurgeon and C. Edwards	1045	Stability and performance recovery within discretized non-linear control systems
KJ. Zhang, YK. Xu, X. Chen and XR. Cao	1055	Policy iteration based feedback control
P. García and P. Albertos	1062	A new dead-time compensator to control stable and integrating processes with long dead-time
M. Sato	1072 .	Inverse system design for LPV systems using parameter-dependent Lyapunov functions
M. Tanelli, A. Astolfi and S.M. Savaresi	1078	Robust nonlinear output feedback control for brake by wire control systems
R. Davies, P. Shi and R. Wiltshire	1088	Upper solution bounds of the continuous and discrete coupled algebraic Riccati equations
XL. Liu, GR. Duan and KL. Teo	1097	Optimal soft landing control for moon lander
TH. Kim, I. Maruta and T. Sugie	1104	Robust PID controller tuning based on the constrained particle swarm optimization
S. Bhatnagar and K.M. Babu	1111	New algorithms of the Q-learning type
J. Lavaei and A.G. Aghdam	1120	Stabilization of decentralized control systems by means of periodic feedback
J. Komenda, J.H. van Schuppen, B. Gaudin and H. Marchand	1127.	Supervisory control of modular systems with global specification languages
B. Bøhagen and J.T. Gravdahl	1135	Active surge control of compression system using drive torque
H. Ishii and S. Hara	1141	A subband coding approach to control under limited data rates and message losses
S. Richardson, S. Wang and L.S. Jennings	1149	A multivariate adaptive regression B-spline algorithm (BMARS) for solving a class of nonlinear optimal feedback control problems
TECHNICAL COMMUNIQUES		
A.N. Gündeş	1156	Simultaneous stabilization of MIMO systems with integral action controllers
B.J.P. Roset, W.P.M.H. Heemels, M. Lazar and H. Nijmeijer	1161	On robustness of constrained discrete-time systems to state measurement errors
F. Blanchini and C. Savorgnan	1166	Stabilizability of switched linear systems does not imply the existence of convex Lyapunov functions
P.J. Goulart and E.C. Kerrigan	1171	Input-to-state stability of robust receding horizon control with an expected value cost
B. Johansson, A. Speranzon, M. Johansson and K.H. Johansson	1175	On decentralized negotiation of optimal consensus



automatica

A Journal of IFAC The International Federation of Automatic Control

ISSN 0005-1098

CONTENTS

SURVEY PAPER		
I. Markovsky	891	Structured low-rank approximation and its applications
REGULAR PAPERS	,	
EW. Bai and J. Reyland Jr.	910	Towards identification of Wiener systems with the least amount of a priori information on the nonlinearity
W.M. McEneaney	920	A new fundamental solution for differential Riccati equations arising in control
J.C. Geromel and R.H. Korogui	937	$\boldsymbol{\mathscr{H}}_2$ robust filter design with performance certificate via convex programming
L. Vu and D. Liberzon	949	Invertibility of switched linear systems
FS. Hsieh	959	Holarchy formation and optimization in holonic manufacturing systems with contract net
I. Necoara, T.J.J. van den Boom, B. De Schutter and H. Hellendoorn	971	Stabilization of max-plus-linear systems using model predictive control: The unconstrained case
BRIEF PAPERS		
G. Batt, H. de Jong, M. Page and J. Geiselmann	982	Symbolic reachability analysis of genetic regulatory networks using discrete abstractions
Y. Dong and J. Sun	990	On hybrid control of a class of stochastic non-linear Markovian switching systems
J. Zhou, Ja. Lu and J. Lü	996	Pinning adaptive synchronization of a general complex dynamical network
H. Zhang, ZH. Guan and G. Feng	1004	Reliable dissipative control for stochastic impulsive systems
SJ. Park and KH. Cho	1011	Nonblocking supervisory control of timed discrete event systems under communication delays: The existence conditions
J. Vance and S. Jagannathan	1020	Discrete-time neural network output feedback control of nonlinear discrete-time systems in non-strict form
Z. Duan, J. Wang, G. Chen and L. Huang	1028	Stability analysis and decentralized control of a class of complex dynamical networks
L. Yan, L. Hsu, R.R. Costa and F. Lizarralde	1036	A variable structure model reference robust control without a prior knowledge of high frequency gain sign

Continued on inside back cover



