

Contents

El Jai A. and Hamzaoui H. Regional observation and sensors	5
Münch A. Optimal internal dissipation of a damped wave equation using a topological approach	15
Klamka J. Stochastic controllability of systems with multiple delays in control	39
Calzolari A., Florchinger P. and Nappo G. Nonlinear filtering for Markov systems with delayed observations	49
Ardakani M.K., Noorossana R., Niaki S.T.A. and Lahijanian H. Robust parameter design using the weighted metric method—The case of ‘the smaller the better’	59
Ladaci S., Charef A. and Loiseau J.J. Robust fractional adaptive control based on the strictly positive realness condition	69
Vardulakis A.-I.G., Karampetakis N.P., Antoniou E.N. and Tictopoulou E. On the realization theory of polynomial matrices and the algebraic structure of pure generalized state space systems	77
Kaczorek T. Reachability of cone fractional continuous-time linear systems	89
Przyborowski P. and Kaczorek T. Positive 2D discrete-time linear Lyapunov systems	95
Górecki H. Algebraic condition for decomposition of large-scale linear dynamic systems ..	107
Ferguene F. and Toumi R. Dynamic external force feedback loop control of a robot manipulator using a neural compensator—Application to the trajectory following in an unknown environment	113
Marusak P.M. and Tatjewski P. Effective dual-mode fuzzy DMC algorithms with on-line quadratic optimization and guaranteed stability	127
Tadeusiewicz R., Ogiela M.R. and Szczepaniak P.S. Notes on a linguistic description as the basis for automatic image understanding	143
Oniszczyk W. Semi-Markov-based approach for the analysis of open tandem networks with blocking and truncation	151
Kazienko P. Mining indirect association rules for web recommendation	165