

Control and Cybernetics

vol. **42** (2013) No. 2

CONTENTS

SPECIAL ISSUE	311
ON THIS SPECIAL ISSUE, BY EWA GIREJKO AND DOROTA MOZYRSKA	313
ZBIGNIEW BARTOSIEWICZ: Positive realizations on time scales	315
ZBIGNIEW BARTOSIEWICZ, ÜLLE KOTTA, EWA PAWLUSZEWICZ, MARIS TÖNSO AND MAŁGORZATA WYRWAS: Reducibility condition for nonlinear discrete-time systems: behav- ioral approach	329
JACEK CHUDZIAK: Utility functions invariant with respect to some classes of trans- formations	347
ABHIRUP DATTA AND PRITI KUMAR ROY: T-cell proliferation on immunopathogenic mechanism of psoriasis: a control based theoretical approach	365
ANTONI LEON DAWIDOWICZ AND ANNA POSKROBKO: Stability and chaotic properties of multidimensional Lasota equa- tion	387
MONIKA DRYL, AGNIESZKA B. MALINOWSKA AND DELFIM F. M. TORRES: A time-scale variational approach to inflation, unemployment and social loss	399
EWA GIREJKO AND DOROTA MOZYRSKA: Cone solutions of multi-order fractional difference systems	419

SUMIT NANDI, MITHUN KUMAR GHOSH, RUPA BHATTACHARYA AND PRITI KUMAR ROY: Mathematical modeling to optimize the product in enzyme kinetics	431
TATIANA ODZIJEWICZ, AGNIESZKA B. MALINOWSKA, AND DELFIM F. M. TORRES: A generalized fractional calculus of variations	443
MOULAY RCHID SIDI AMMI, AGNIESZKA B. MALINOWSKA, AND DELFIM F. M. TORRES: Optimal control for a steady state dead oil isotherm problem	459
DOMINIK SIEROCIUK: Fractional Kalman Filter algorithms for correlated system and measurement noises	471
ZBIGNIEW ZACZKIEWICZ: Algebraic observability of linear differential–algebraic systems with delay	491
REGULAR PAPERS	503
TRAN THANH TUNG: On the fuzzy control stochastic differential systems	505
EDWARD KOZŁOWSKI: Stabilization of linear systems in random horizon via control	527
MOHAMED S. BOUDELLIOUA: Further results on the equivalence to Smith form of multivariate polynomial matrices	543