

## CONTENTS OF VOLUME 4

### NUMBER 1-2

V. KAMINSKAS, D. JANICKIENĖ, K. ŠIDLIAUSKAS, D. VITKUTĖ. Practical issues in the implementa- tion of predictor-based self-tuning control systems . . . . .	3
P. LACHOUT, M. STUDENÝ, J. ŠINDELÁŘ. On set- valued measures . . . . .	21
A. LIPEIKA, J. LIPEIKIENĖ. Speaker identification . . . . .	45
J. LIPEIKIENĖ. Data compression methods, application to ECG . . . . .	57
A.-M. MONTVILAS. A sequential nonlinear mapping for data analysis . . . . .	81
R. PUPEIKIS. Off-line estimation of dynamic systems pa- rameters in the presence of outliers in autoregressive noise . . . . .	95
P. VOLF. Proportional intensity model for regression in eventhistory analysis . . . . .	111
T. ALENIKOVA, R. ČIEGIS. On the iterative methods for linear problems with discontinuous coefficients . . . . .	126
A. GARLIAUSKAS, S. MINKEVIČIUS. About stochastic discrete neuronetworks . . . . .	140
R. ČIEGIS, R. SKIRMANTAS. Optimality of the realiza- tion of difference schemes . . . . .	148
R. MATHAR, A. ŽILINSKAS. Maximizing throughput of finite population slotted ALOHA . . . . .	163
P.M. PARDALOS, K.A. MURTHY, T.P. HARRISON. A computational comparison of local search heuristics for solving quadratic assignment problems . . . . .	172
D. PETCU. On the Kantorovich hypothesis for Newton's method . . . . .	188

H. PRANEVITCHIUS, L. SINTONEN. Specification, validation and simulation of an event driven local computer network protocol . . . . .	199
E. UBI. How to choose a pivot element in simplex method? . . . . .	217
P. ZINTERHOF, M. SALCHELLER. Numerical inversion of multivariate Laplace transforms using a parallel system . . . . .	227

## NUMBER 3-4

C. F. ALASTRUEY, J. R. GONZÁLEZ DE MENDÍVIL. Stabilizability of a class of linear delay-differential systems . . . . .	255
R. ANDRUŠKEVIČIUS. Realization of fail-safe sequential machines by using inversion of input variables . . . . .	267
R. ČIEGIS, G. KAIRYTĖ, A. DEMENTJEV. Iterative methods and stability of steady-state solutions . . . . .	277
V. DAGIENĖ. A pseudo-direct execution of algorithms using Turbo Pascal applied in programming teaching process . . . . .	295
V. DAGYS, A. KLUPŠAITĖ. Distance teaching of programming and possibilities of e-mail . . . . .	303
S. GUDAS. Co-ordination processes: modelling and taxonomy . . . . .	312
S. GUDAS. Hierarchy of information processing in organizational systems . . . . .	322
A. KORZJUK, P. MATUS. Conservative difference schemes for parabolic equations with time-adaptive grids . . . . .	335
B. PARADAUSKAS. Conceptual and relational schemes of entities . . . . .	351
Š. RAUDYS. On shape of pattern error function, initializations and intrinsic dimensionality in ANN classifier design . . . . .	360

V. ŠTUIKYS, E. TOLDIN. Computer-aided test program design system (CATPDS) in ATLAS . . . . .	384
V. TELEZHIN. Space structural-parametric synthesis of multi-disciplinary technical complexes . . . . .	399
S. VATLIN. Self-guessing fuzzy classifiers . . . . .	406
S. VATLIN. Stable fuzzy classifiers . . . . .	414