

CONTENTS OF VOLUME 3

NUMBER 1

J. BAIKOVICIUS, L. GERENCŠÉR. Change-point detection as model selection	3
N. KLIGIENĖ. Prediction of a structural instability in stochastic process	21
A. LIPEIKA, J. LIPEIKIENĖ. Estimation of many change-points in long autoregressive sequences	37
J. MICHÁLEK. Hypotheses testing in mixtures of time series I	47
J. MICHÁLEK. Hypotheses testing in mixtures of time series II	64
A.-M. MONTVILAS. Sequential detection of many changes in several unknown states of dynamic systems	72
E. OSTASEVICIUS. A practical method for segmentation and estimation of model parameters of the processes with frequently and instantly changing properties	80
R. PUPEIKIS. Model order determination using robust hypothesis-testing procedures	88
G. YIN, B.G. FITZPATRICK. On invariance principles for distributed parameter identification algorithms	98
Lithuanian abstracts	119
Russian abstracts	127

NUMBER 2

V. ABRASHIN, S. LAPKO. On one class of difference schemes for solution of Navier-Stokes equations in velocity-pressure variables.	141
R. ČIEGIS, R. ČIEGIS, R. ČIUPAILA. On the relationship between the investigation of nonlinear difference schemes and the problem of minimization.	159

S. ERMAKOV, O. MAZHOROVA, Yu. POPOV. Finite-difference algorithm for convection-diffusion equation applied to electrophoresis problem. . .	173
M. HERNDON, C. PERTTUNEN, B. STUCKMAN. Global optimization of a random walk function. . .	198
G. PALUBECKIS. Heuristics with a worst-case bound for unconstrained quadratic 0-1 programming. . .	225
Z.V. REYTBLETT, C. SCIAMMARELLA, E.E. SCIAMMARELLA, L. TORRES. Psychoanalytic models as dynamical systems.	241
S. SIMNISHKIS. Optimization of the collision resolution algorithm.	247
V. ŠALTENIS, V. TIEŠIS. Simulation and optimization of radar search strategies.	256
A. ŽILINSKAS. On convergence of algorithms for broad classes of objective functions.	275
Lithuanian abstracts	280
Russian abstracts	288

NUMBER 3

A. JAIN, Š. RAUDYS. On training sample size and complexity of artificial neural net classifier . . .	301
A. KAPUSTINSKAS. Calculation of the weight function of a random space-time autoregressive field in space R^3	338
M. KRZYŚKO. Bayes estimators of the discriminant scores in the statistical group classification problems	348
K. LAŠINSKAS. The overlappingly decomposed networks	360
K. SERAPINAS, K. ŽUKAUSKAS. Checking fidelity of the systems with fault detection circuits . .	378
A. GARLIAUSKAS, A. GUTMAN, A. SHIMOLIUNAS. Some logic functions realized on a stationary nonlinear dendrite. 2. Inhibitory synapses . . .	385

D. DZEMYDIENĖ. Representation of decision making in dynamically changing environment	393
R. JASINEVITCHIUS. Parallel space-time structure for computer vision systems	418
Lithuanian abstracts	432
Russian abstracts	440
Information	448

NUMBER 4

G. DZEMYDA, V. ŠALTEMIS, V. TIEŠIS, S. CHAP- LINSKAS, A. TRECHIOKAS. HIV/AIDS infection spread: simulation and control	455
A. GARLIAUSKAS, A. GUTMAN, A. SHIMOLIUNAS. Some logic functions realized on a stationary nonlinear dendrite. 3. Interaction of excitatory and inhibitory synapses	469
C.-G. HAN, P.M. PARDALOS, Y. YE. On the solution of indefinite quadratic problems using an interior- point algorithm	474
V. KAŃKOVÁ, P. LACHOUT. Convergence rate of empirical estimates in stochastic programming	497
K. MURTHY, Y. LI, P.M. PARDALOS. A local search algorithm for the quadratic assignment problem	524
J. POŽELA, V. JUCIENĖ. High-speed semiconductor devices in computer technology	539
R. PUPEIKIS. Off-line estimation of dynamic systems parameters in the presence of outliers in observa- tions	567
S. VATLIN, V. KRASNOPROSHIN. Max-min and max- Δ transitive resemblance matrices in clas- sification problems	582
Lithuanian abstracts	592
Russian abstracts	600
Contents of volume	608