

Contents

1 Noise Reduction at the Fan Outlet	1
Karel Adámek, Jan Kolář, Petr Půlpán and Martin Pustka	
2 Performance Evaluation of Gibbs Sampling for Bayesian Extracting Sinusoids	13
M. Cevri and D. Üstündag	
3 Controlling Chaotic Systems Via Time-Delayed Control.....	33
R. Farid, A. Ibrahim and B. Abou-Zalam	
4 Analytical Results for a Small Multiple-Layer Parking System.....	43
S. R. Fleurke and A. C. D. van Enter	
5 Three Dimensional Pulsatile Non-Newtonian Flow in a Stenotic Vessel	55
I. Husain, C. Langdon and J. Schwark	
6 A Polynomial Matrix Approach to the Descriptor Systems	65
W. Kase	
7 Analysis of the Electric Field Distribution in a Wire-Cylinder Electrode Configuration	77
K. N. Kioussis, A. X. Moronis and W. G. Früh	
8 Oblique Newtonian Fluid Flow with Heat Transfer Towards a Stretching Sheet.....	93
F. Labropulu and A. Ghaffar	
9 Double Allee Effects on Prey in a Modified Rosenzweig- MacArthur Predator-Prey Model.....	105
Eduardo González-Olivares and Jaime Huincahue-Arcos	

10 Buckling of Plates on Rotationally and Warping Restrained Supports	121
V. Piscopo and A. Scamardella	
11 Analytic Programming—A New Tool for Synthesis of Controller for Discrete Chaotic Lozi Map	137
R. Senkerik, Z. Kominkova Oplatkova, M. Pluhacek and I. Zelinka	
12 A Fitter-Population Based Artificial Bee Colony (JA-ABC) Optimization Algorithm.....	153
J. Mohamad-Saleh, N. Sulaiman and A. G. Abro	
13 Modeling the Value Chain with Object-Valued Petri Nets.....	161
J. Zacek, Z. Melis and F. Hunka	
14 Combined Method for Solving of 1D Nonlinear Schrödinger Equation.....	173
Vyacheslav A. Trofimov and Evgeny M. Trykin	
15 Towards Real Time Implementation of Sparse Representation Classifier (SRC) Based Heartbeat Biometric System	189
W. C. Tan, H. M. Yeap, K. J. Chee and D. A. Ramli	
16 Laminar and Turbulent Simulations of Several TVD Schemes in Two-Dimensions—Part I—Results.....	203
E. S. G. Maciel	
17 A Parametric Non-Mixture Cure Survival Model with Censored Data	231
Noor Akma Ibrahim, Fauzia Taweab and Jayanthi Arasan	
18 Information Technology Model for Supporting Open Utility Market.....	239
E. Grabovica, Dz. Borovina and S. Kovacevic	
19 Thermodynamic Properties of Engine Exhaust Gas for Different Kind of Fuels	247
H. K. Kayadelen and Y. Ust	
20 Application of the Artificial Neural Networks and Fuzzy Logic for the Prediction of Reactivity of Molecules in Radical Reactions	261
V. E. Tumanov	

21 Plasma-Fuel Systems for Environment Enhancement and Processing Efficiency Increasing	271
V. E. Messerle and A. B. Ustimenko	
22 Computer Modeling of Optimal Technology in Material Engineering.....	279
V. A. Rusanov, S. V. Agafonov, A. V. Daneev and S. V. Lyamin	
23 Self-Localization by Laser Scanner and GPS in Automated Surveys.....	293
V. Barrile and G. Bilotta	

Computational Problems in Engineering

Mastorakis, N.; Mladenov, V. (Eds.)

2014, XII, 311 p. 177 illus., 135 illus. in color.,

Hardcover

ISBN: 978-3-319-03966-4