

Contents

Factorizations in Special Relativity and Quantum Scattering on the Line	1
Danail S. Brezov, Clementina D. Mladenova and Ivaïlo M. Mladenov	
Decision Support Tool in the Project LANDSLIDE	15
Nina Dobrinkova and Pierluigi Maponi	
Generalized Nets as a Tool for Modelling of Railway Networks	23
Stefka Fidanova, Krassimir Atanassov and Ivan Dimov	
On Nonlocal Models of Kulish-Sklyanin Type and Generalized Fourier Transforms	37
V.S. Gerdjikov	
Standing Waves in Systems of Perturbed Sine-Gordon Equations	53
Radoslava Hristova and Ivan Hristov	
Stability Analysis of an Inflation of Internally-Pressurized Hyperelastic Spherical Membranes Connected to Aneurysm Progression	61
Tihomir B. Ivanov and Elena V. Nikolova	
New Bounds for Probability of Error of Coded and Uncoded TQAM in AWGN Channel	75
Hristo Kostadinov, Liliya Kraleva and Nikolai L. Manev	
Construction of Multistage Scenario Tree for Insurance Activity	87
Tsvetanka Kovacheva	
Microphone Array for Non-contact Monitoring of Rolling Bearings	103
Volodymyr Kudriashov, Vladislav Ivanov, Kiril Alexiev and Petia Koprinkova-Hristova	

Geothermal Effects for BOD Removal in Horizontal Subsurface Flow Constructed Wetlands: A Numerical Approach	115
Konstantinos Liolios, Vassilios Tsihrintzis, Krassimir Georgiev and Ivan Georgiev	
Further Results of Mean-Value Type in \mathbb{C} and \mathbb{R}	127
Lubomir Markov	
Computer Aided Modeling of Ultrasonic Surface Waves Propagation in Materials with Gradient of Properties	135
Todor Partalin and Yonka Ivanova	
InterCriteria Analysis of Simple Genetic Algorithms Performance	147
Tania Pencheva and Maria Angelova	
Interval Algebraic Approach to Equilibrium Equations in Mechanics	161
Evgenija D. Popova	
InterCriteria Analysis of Relations Between Model Parameters Estimates and ACO Performance	175
Olympia Roeva and Stefka Fidanova	
Newtonian and Non-Newtonian Pulsatile Blood Flow in Arteries with Model Aneurysms	187
S. Tabakova, P. Raynov, N. Nikolov and St. Radev	
Reduced Rule-Base Fuzzy-Neural Networks	199
Margarita Terziyska and Yancho Todorov	
Accuracy of Linear Craniometric Measurements Obtained from Laser Scanning Created 3D Models of Dry Skulls	215
Diana Toneva, Silviya Nikolova, Ivan Georgiev and Assen Tchorbadjieff	
Equivalence of Models of Freeze-Drying	231
Milena Veneva and William Lee	
Comparing Bézier Curves and Surfaces for Coincidence	239
Krassimira Vlachkova	
Spectral Theory of $sl(3, \mathbb{C})$ Auxiliary Linear Problem with $\mathbb{Z}_2 \times \mathbb{Z}_2 \times \mathbb{Z}_2$ Reduction of Mikhailov Type	251
A.B. Yanovski	



<http://www.springer.com/978-3-319-49543-9>

Advanced Computing in Industrial Mathematics
Revised Selected Papers of the 10th Annual Meeting of
the Bulgarian Section of SIAM December 21-22, 2015,
Sofia, Bulgaria
Georgiev, K.; Todorov, M.; Georgiev, I. (Eds.)
2017, VIII, 262 p. 77 illus., 47 illus. in color., Hardcover
ISBN: 978-3-319-49543-9