Contents

An Investigation into Accuracy of CAMEL Model of Banking Supervision Using Rough Sets ........................................ 1
Renu Vashist and Ashutosh Vashishtha

Towards Intelligent Distributed Computing: Cell-Oriented Computing ......................................................... 27
Ahmad Karawash, Hamid Mcheick and Mohamed Dbouk

Application of Genetic Algorithms for the Estimation of Ultrasonic Parameters ........................................ 55
Mohamed Hesham Farouk El-Sayed

A Hybridized Approach for Prioritizing Software Requirements Based on K-Means and Evolutionary Algorithms .......... 73
Philip Achimugu and Ali Selamat

One-Hour Ahead Electric Load Forecasting Using Neuro-fuzzy System in a Parallel Approach ............................. 95
Abderrezak Laouafi, Mourad Mordjaoui and Djalel Dib

A Computational Intelligence Optimization Algorithm Based on the Behavior of the Social-Spider ....................... 123
Erik Cuevas, Miguel Cienfuegos, Raul Rojas and Alfredo Padilla

Black Hole Algorithm and Its Applications .................................................. 147
Santosh Kumar, Deependita Datta and Sanjay Kumar Singh
Genetic Algorithm Based Multiobjective Bilevel Programming for Optimal Real and Reactive Power Dispatch Under Uncertainty .................................................. 171 Papun Biswas

A Monitoring-Maintenance Approach Based on Fuzzy Petri Nets in Manufacturing Systems with Time Constraints ................. 205 Anis Mhalla and Mohamed Benrejeb

Box and Jenkins Nonlinear System Modelling Using RBF Neural Networks Designed by NSGAII ........................................ 229 Kheireddine Lamamra, Khaled Belarbi and Souaad Boukhtini

Back-Propagation Neural Network for Gender Determination in Forensic Anthropology ........................................... 255 Iis Afrianty, Dewi Nasien, Mohammed R.A. Kadir and Habibollah Haron

Neural Network Approach to Fault Location for High Speed Protective Relaying of Transmission Lines .......................... 283 Moez Ben Hessine, Houda Jouini and Souad Chebbi

A New Approach for Flexible Queries Using Fuzzy Ontologies .... 315 Amira Aloui and Amel Grissa

An Efficient Multi Level Thresholding Method for Image Segmentation Based on the Hybridization of Modified PSO and Otsu’s Method ........................................ 343 Fayçal Hamdaoui, Anis Sakly and Abdellatif Mtibaa

IK-FA, a New Heuristic Inverse Kinematics Solver Using Firefly Algorithm ............................................................... 369 Nizar Rokbani, Alicia Casals and Adel M. Alimi

Computational Intelligence Applications in Modeling and Control
Azar, A.T.; Vaidyanathan, S. (Eds.)
2015, X, 430 p. 133 illus., 15 illus. in color., Hardcover
ISBN: 978-3-319-11016-5