Contents

Index Fund Optimization Using Genetic Algorithm and Scatter Diagram Based on Coefficients of Determination
Yukiko Orito, Manabu Takeda, Hisashi Yamamoto 1

Mining Bayesian Networks from Direct Marketing Databases with Missing Values
Yuan Yuan Guo, Man Leung Wong 13

Fuzzy Local Currency Based on Social Network Analysis for Promoting Community Businesses
Osamu Katai, Hiroshi Kawakami, Takayuki Shiose 37

Evolving Failure Resilience in Scale-Free Networks
George Leu, Akira Namatame 49

Evolving Networks with Enhanced Linear Stability Properties
David Newth, Jeff Ash 61

Effectiveness of Close-Loop Congestion Controls for DDoS Attacks
Takanori Komatsu, Akira Namatame 79

Priority-Based Genetic Algorithm for Shortest Path Routing Problem in OSPF
Lin Lin, Mitsuo Gen 91

Evolutionary Network Design by Multiobjective Hybrid Genetic Algorithm
Mitsuo Gen, Lin Lin, Jung-Bok Jo 105

Hybrid Genetic Algorithm for Designing Logistics Network, VRP and AGV Problems
Mitsuo Gen, Lin Lin, Jung-Bok Jo 123

Multiobjective Genetic Algorithm for Bicriteria Network Design Problems
Lin Lin, Mitsuo Gen 141

Use of Serendipity Power for Discoveries and Inventions
Shigekazu Sawaizumi, Osamu Katai, Hiroshi Kawakami, Takayuki Shiose 163

Evolution of Retinal Blood Vessel Segmentation Methodology Using Wavelet Transforms for Assessment of Diabetic Retinopathy
D.J. Cornforth, H.F. Jelinek, M.J. Cree, J.J.G. Leandro, J.V.B. Soares, R.M. Cesar Jr. 171

Multistage-Based Genetic Algorithm for Flexible Job-Shop Scheduling Problem
Mitsuo Gen, Jie Gao, Lin Lin 183

Implementation of Parallel Genetic Algorithms on Graphics Processing Units
Man Leung Wong, Tien Tsin Wong 197

Author Index 217