Table of Contents

Efficient Swarm Algorithms to Constrained Resource Allocation Peng-Yeng Yin and Jing-Yu Wang	1
A Multi-Answer Character Recognition Method and Its Implementation on a High-Performance Computing Cluster Qing Wu, Morgan Bishop, Robinson Pino, Richard Linderman, and Qinru Qiu	7
Extracting Market Trends from the Cross Correlation between Stock Time Series Mieko Tanaka-Yamawaki and Takemasa Kido	14
Virtual Team Tasks Performance Evaluation Based on Multi-level Fuzzy Comprehensive Method Dalia Kriksciuniene and Sandra Strigunaite	20
The Development and Implementation of a Short Term Prediction Tool Using Artificial Neural Networks <i>Aubai Alkhatib, Siegfried Heier, and Melih Kurt</i>	26
Process Management Reviewed Mohsen Sharifi, Seyedeh Leili Mirtaheri, Ehsan Mousavi Khaneghah, and Zeinolabedin Mosavi Khaneghah	32
Parallel Processing for 3-D Slope Stability Problems Cheng Yung Ming and Li Na	37
Agent-Oriented Computing: Agents as a Paradigm for Computer Programming and Software Development Alessandro Ricci and Andrea Santi	42
Towards Ubiquitous Computing Clouds Ahmed Khalifa, Riham Hassan, and Mohamed Eltoweissy	52
The Hopfield-type Memory Without Catastrophic Forgetting Iakov Karandashev, Boris Kryzhanovsky, and Leonid Litinskii	57
An Artificial Intelligence Approach Towards Sensorial Materials Florian Pantke, Stefan Bosse, Michael Lawo, Dirk Lehmhus, and Matthias Busse	62
A Soft Case-based Reasoning System for Travelling Time Estimation Lixing Wang and Wai-Hung Ip	69
Optimizing the Area Under the ROC Curve in Multilayer Perceptron-based Classifiers Raul Ramos-Pollan, Miguel Angel Guevara Lopez, and Naimy Naimy Gonzalez de Posada	75

Schrodinger's Register: Foundational Issues and Physical Realization Stephen Pink and Stanley Martens	82
A Real-Time PC Based Software Radio DVB-T Receiver Shu-Ming Tseng, Jian-Cheng Yu, and Yueh-Teng Hsu	86
Evaluation of Seed Throwing Optimization Meta Heuristic in Terms of Performance and Parallelizability Oliver Weede, Stefan Zimmermann, Bjorn Hein, and Heinz Worn	92
A Case Study on the Design Trade-off of a Thread Level Data Flow based Many-core Architecture <i>Zhibin Yu, Andrea Righi, and Roberto Giorgi</i>	100
Theoretical Analysis and Simulation to Investigate the Fundamental Rules of Trust Signaling Games in Network- based Transactions So Young Kim and Junseok Hwang	107
A Two-Phase Security Algorithm for Hierarchical Sensor Networks Jingjun Zhao and Kendall E. Nygard	114
Cloud Computing and the Enterprise Needs for Data Freedom Dalia Kriksciuniene and Donatas Mazeika	121
A Computational Intelligence Algorithm for Simulation-driven Optimization Problems Yoel Tenne, Kazuhiro Izui, and Shinji Nishiwaki	127