Preface

This book and its companion volume, LNCS vols. 6145 and 6146, constitute the proceedings of the International Conference on Swarm Intelligence (ICSI 2010) held in Beijing, the capital of China, during June 12-15, 2010. ICSI 2010 was the first gathering in the world for researchers working on all aspects of swarm intelligence, and provided an academic forum for the participants to disseminate their new research findings and discuss emerging areas of research. It also created a stimulating environment for the participants to interact and exchange information on future challenges and opportunities of swarm intelligence research.

ICSI 2010 received 394 submissions from about 1241 authors in 22 countries and regions (Australia, Belgium, Brazil, Canada, China, Cyprus, Hong Kong, Hungary, India, Islamic Republic of Iran, Japan, Jordan, Republic of Korea, Malaysia, Mexico, Norway, Pakistan, South Africa, Chinese Taiwan, UK, USA, Vietnam) across six continents (Asia, Europe, North America, South America, Africa, and Oceania). Each submission was reviewed by at least three reviewers. Based on rigorous reviews by the Program Committee members and reviewers, 185 high-quality papers were selected for publication in the proceedings with the acceptance rate of 46.9%. The papers are organized in 25 cohesive sections covering all major topics of swarm intelligence research and development.

In addition to the contributed papers, the ICSI 2010 technical program included four plenary speeches by Russell C. Eberhart (Indiana University Purdue University Indianapolis, IUPUI, USA), Gary G. Yen (President of IEEE Computational Intelligence Society, CIS, Oklahoma State University, USA), Erol Gelenbe (London Imperial College, UK), Nikola Kasabov (President of International Neural Network Society, INNS, Auckland University of Technology, New Zealand). Besides the regular parallel oral sessions, ICSI 2010 also had several poster sessions focusing on wide areas.

As organizers of ICSI 2010, we would like to express sincere thanks to Peking University and Xi’an Jiaotong-Liverpool University for their sponsorship, to the IEEE Beijing Section, International Neural Network Society, World Federation on Soft Computing, Chinese Association for Artificial Intelligence, and National Natural Science Foundation of China for their technical co-sponsorship. We appreciate the National Natural Science Foundation of China and K.C. Wong Education Foundation, Hong Kong, for their financial and logistic supports.

We would also like to thank the members of the Advisory Committee for their guidance, the members of the International Program Committee and additional reviewers for reviewing the papers, and members of the Publications Committee for checking the accepted papers in a short period of time. Particularly, we are grateful to the proceedings publisher, Springer, for publishing the proceedings in the prestigious series of Lecture Notes in Computer Science. Moreover, we wish to express our heartfelt appreciation to the plenary speakers, session chairs, and
student helpers. In addition, there are still many more colleagues, associates, friends, and supporters who helped us in immeasurable ways; we express our sincere gratitude to them all. Last but not the least, we would like to thank all the speakers, authors and participants for their great contributions that made ICSI 2010 successful and all the hard work worthwhile.

June 2010

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Yanqiao Zhu  
Yongqing Yang  
Yongsheng Dong  
Yulong Wang  
Yuan Cao
# Table of Contents – Part II

**Fuzzy Methods**

On the Correlations between Fuzzy Variables .......................... 1  
*Yankui Liu and Xin Zhang*

Modeling Fuzzy Data Envelopment Analysis with Expectation Criterion ........................................................ 9  
*Xiaodong Dai, Ying Liu, and Rui Qin*

Finding and Evaluating Fuzzy Clusters in Networks ................. 17  
*Jian Liu*

On Fuzzy Diagnosis Model of Plane’s Revolution Swing Fault and Simulation Researches ........................................ 27  
*Dongcai Qu, Jihong Cheng, Wanli Dong, and Ruizhi Zhang*

Fuzzy Cluster Centers Separation Clustering Using Possibilistic Approach ....................................................... 35  
*Xiaohong Wu, Bin Wu, Jun Sun, Haijun Fu, and Jiewen Zhao*

A Class of Fuzzy Portfolio Optimization Problems: E-S Models ........ 43  
*Yankui Liu and Xiaoli Wu*

Application of PSO-Adaptive Neural-Fuzzy Inference System (ANFIS) in Analog Circuit Fault Diagnosis ........................................ 51  
*Lei Zuo, Ligang Hou, Wang Zhang, Shuqin Geng, and Wucheng Wu*

**Applications of Computational Intelligence Algorithms**

Chaos Optimization SVR Algorithm with Application in Prediction of Regional Logistics Demand ........................................ 58  
*Haiyan Yang, Yongquan Zhou, and Hongxia Liu*

Cooperation Partners Selection for Multiple-Core-Type MPN ........ 65  
*Shuili Yang, Taofen Li, and Yu Dong*

A New Technique for Forecast of Surface Runoff ...................... 71  
*Lihua Feng and Juhua Zheng*

Computational Intelligence Algorithms Analysis for Smart Grid Cyber Security ....................................................... 77  
*Yong Wang, Da Ruan, Jianping Xu, Mi Wen, and Liwen Deng*
Using AOBP for Definitional Question Answering ................................. 85  
  Junkuo Cao, Weihua Wang, and Yuanzhong Shu

Radial Basis Function Neural Network Based on PSO with Mutation  
Operation to Solve Function Approximation Problem .......................... 92  
  Xiaoyong Liu

CRPSO-Based Integrate-and-Fire Neuron Model for Time Series  
Prediction ................................................................. 100  
  Liang Zhao and Feng Qian

An Agent-Based Model of Make-to-Order Supply Chains ...................... 108  
  Jing Li and Zhaohan Sheng

**Signal Processing and Information Security**

Pricing and Bidding Strategy in AdWords Auction under Heterogeneous  
Products Scenario ........................................................................ 116  
  E. Zhang and Yiqin Zhuo

FIR Cutoff Frequency Calculating for ECG Signal Noise Removing  
Using Artificial Neural Network ................................................... 124  
  Sara Moein

A System Identification Using DRNN Based on Swarm Intelligence ....... 132  
  Qunzhou Yu, Jian Guo, and Cheng Zhou

Force Identification by Using SVM and CPSO Technique ................... 140  
  Zhichao Fu, Cheng Wei, and Yanlong Yang

A Novel Dual Watermarking Scheme for Audio Copyright Protection  
and Content Authentication ....................................................... 149  
  Zhaoyang Ma, Xueying Zhang, and Jinxia Yang

On the Strength Evaluation of Lesamnta against Differential  
Cryptanalysis ............................................................................... 157  
  Yasutaka Igarashi and Toshinobu Kaneko

**Information Processing System**

Sparse Source Separation with Unknown Source Number .................... 167  
  Yujie Zhang, Hongwei Li, and Rui Qi

Matrix Estimation Based on Normal Vector of Hyperplane in Sparse  
Component Analysis ..................................................................... 173  
  Feng Gao, Gongxian Sun, Ming Xiao, and Jun Lv
# Table of Contents – Part II

XIII

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A New HOS-Based Blind Source Extraction Method to Extract $\mu$</td>
<td>180</td>
</tr>
<tr>
<td>Kun Cai and Shengli Xie</td>
<td></td>
</tr>
<tr>
<td>An Adaptive Sampling Target Tracking Method of WMSNs</td>
<td>188</td>
</tr>
<tr>
<td>Shikun Tian, Xinyu Jin, and Yu Zhang</td>
<td></td>
</tr>
<tr>
<td>Asymptotic Equivalent Analysis for LTI Overlapping Large-Scale Systems and Their Subsystems</td>
<td>196</td>
</tr>
<tr>
<td>Qian Wang and Xuebo Chen</td>
<td></td>
</tr>
<tr>
<td>Brain-Computer Interface System Using Approximate Entropy and EMD Techniques</td>
<td>204</td>
</tr>
<tr>
<td>Qiwei Shi, Wei Zhou, Jianting Cao, Toshihisa Tanaka, and Rubin Wang</td>
<td></td>
</tr>
<tr>
<td>An Application of LFP Method for Sintering Ore Ratio</td>
<td>213</td>
</tr>
<tr>
<td>Xi Cheng, Kailing Pan, and Yunfeng Ma</td>
<td></td>
</tr>
<tr>
<td>Contour Map Plotting Algorithm for Evaluating Characteristics of Transient Electron Beam</td>
<td>221</td>
</tr>
<tr>
<td>Chunlong Shen, Miping Zhang, Kehong Wang, Yong Peng, and Jianhua Xu</td>
<td></td>
</tr>
<tr>
<td>Study on Modification Coefficient of Planetary Gear</td>
<td>229</td>
</tr>
<tr>
<td>Tao Zhang and Lei Zhu</td>
<td></td>
</tr>
</tbody>
</table>

**Intelligent Control**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Automatic Feed Control Based on OBP Neural Network</td>
<td>236</td>
</tr>
<tr>
<td>Ding Feng, Bianyou Tan, Peng Wang, Shouyong Li, Jin Liu, Cheng Yang, Yongxin Yuan, and Guanjun Xu</td>
<td></td>
</tr>
<tr>
<td>A Capacitated Production Planning Problem for Closed-Loop Supply Chain</td>
<td>243</td>
</tr>
<tr>
<td>Jian Zhang and Xiao Liu</td>
<td></td>
</tr>
<tr>
<td>Distributed Hierarchical Control for Railway Passenger-Dedicated Line Intelligent Transportation System Based on Multi-Agent</td>
<td>252</td>
</tr>
<tr>
<td>Jingdong Sun, Yao Wang, and Shan Wang</td>
<td></td>
</tr>
<tr>
<td>GA-Based Integral Sliding Mode Control for AGC</td>
<td>260</td>
</tr>
<tr>
<td>Dianwei Qian, Xiangjie Liu, Miaomiao Ma, and Chang Xu</td>
<td></td>
</tr>
<tr>
<td>Stable Swarm Formation Control Using Onboard Sensor Information</td>
<td>268</td>
</tr>
<tr>
<td>Viet-Hong Tran and Suk-Gyu Lee</td>
<td></td>
</tr>
</tbody>
</table>
A Distributed Energy-aware Trust Topology Control Algorithm for Service-Oriented Wireless Mesh Networks .............................. 276
Chuanchuan You, Tong Wang, BingYu Zhou, Hui Dai, and Baolin Sun

A Quay Crane Scheduling Model in Container Terminals ............. 283
Qi Tang

Leader-Follower Formation Control of Multi-robots by Using a Stable Tracking Control Method ................................. 291
Yanyan Dai, Viet-Hong Tran, Zhiguang Xu, and Suk-Gyu Lee

Research on the Coordination Control of Vehicle EPS and ABS .... 299
Weihua Qin, Qidong Wang, Wuwei Chen, and Shenghui Pan

Classifier Systems

SVM Classifier Based Feature Selection Using GA, ACO and PSO for siRNA Design .......................................................... 307
Yamuna Prasad, K. Kanad Biswas, and Chakresh Kumar Jain

A Discrete-Time Recurrent Neural Network for Solving Systems of Complex-Valued Linear Equations ............................. 315
Wudai Liao, Jiangfeng Wang, and Junyan Wang

A Recurrent Neural Network for Solving Complex-Valued Quadratic Programming Problems with Equality Constraints ........ 321
Wudai Liao, Jiangfeng Wang, and Junyan Wang

Computer-Aided Detection and Classification of Masses in Digitized Mammograms Using Artificial Neural Network .................. 327
Mohammed J. Islam, Majid Ahmadi, and Maher A. Sid-Ahmed

Gene Selection and PSO-BP Classifier Encoding a Prior Information ... 335
Yu Cui, Fei Han, and Shiguang Ju

A Modified D-S Decision-Making Algorithm for Multi-sensor Target Identification .......................................................... 343
Xiaolong Liang, Jinfu Feng, and An Liu

Machine Learning Methods

Intelligent Decision Support System for Breast Cancer .................. 351
R.R. Janghel, Anupam Shukla, Ritu Tiwari, and Rahul Kala

An Automatic Index Validity for Clustering ............................... 359
Zizhu Fan, Xiangang Jiang, Baogen Xu, and Zhaofeng Jiang
Exemplar Based Laplacian Discriminant Projection .......................... 367

X.G. Tu and Z.L. Zheng

A Novel Fast Non-negative Matrix Factorization Algorithm and Its Application in Text Clustering ...................................................... 375

Fang Li and Qunxiong Zhu

Coordination of Urban Intersection Agents Based on Multi-interaction History Learning Method ......................................................... 383

Xinhai Xia and Lunhui Xu

Global Exponential Stability Analysis of a General Class of Hopfield Neural Networks with Distributed Delays .............................. 391

Chaojin Fu, Wei Liu, and Meng Yang

Object Recognition of a Mobile Robot Based on SIFT with De-speckle Filtering ................................................................................. 398

Zhiguang Xu, Kyung-Sik Choi, Yanyan Dai, and Suk-Gyu Lee

Some Research on Functional Data Analysis ........................................ 406

Hui Liu

Other Optimization Algorithms

Optimization Algorithm of Scheduling Six Parallel Activities to Three Pairs Order Activities .............................................................. 414

Xiuhua Zhao, Jianxun Qi, Shisen Lv, and Zhixiong Su

Research on the Optimization Decision-Making Two Row-Sequencing-Pairs of Activities with Slacks ................................................. 422

Shisen Lv, Jianxun Qi, Xiuhua Zhao, and Zhixiong Su

A Second-Order Modified Version of Mehrotra-type Predictor-Corrector Algorithm for Convex Quadratic Optimization .................. 430

Qiang Hu and Mingwang Zhang

An Optimization Algorithm of Spare Capacity Allocation by Dynamic Survivable Routing ......................................................................... 439

Zuxi Wang, Li Li, Gang Sun, and Hanping Hu

Numerical Approximation and Optimum Method of Production Monitoring System of the Textile Enterprise ................................... 446

Jingfeng Shao, Zhanyi Zhao, Liping Yang, and Peng Song

Design and Simulation of Simulated Annealing Algorithm with Harmony Search .................................................................................. 454

Hua Jiang, Yanxiu Liu, and Liping Zheng
Sudoku Using Parallel Simulated Annealing ............................................. 461
Zahra Karimi-Dehkordi, Kamran Zamanifar, Ahmad Barani-Dastjerdi, and Nasser Ghasem-Aghae

Data Mining Methods

A Novel Spatial Obstructed Distance by Dynamic Piecewise Linear Chaotic Map and Dynamic Nonlinear PSO .................................................. 468
Xueping Zhang, Yawei Liu, Jiayao Wang, and Haohua Du

A Novel Spatial Clustering with Obstacles Constraints Based on PNPSO and K-Medoids ................................................................. 476
Xueping Zhang, Haohua Du, Tengfei Yang, and Guangcai Zhao

The Optimization of Procedure Chain of Three Activities with a Relax Quantum ....................................................................................... 484
Shisen Lv, Jianxun Qi, and Xiuhua Zhao

Invalidity Analysis of Eco-compensation Projects Based on Two-Stage Game ......................................................................................... 492
Xianjia Wang, Nan Xu, and Binbin Huang

Intelligent Computing Methods and Applications

Botnet Traffic Discriminatory Analysis Using Particle Swarm Optimization .............................................................................................. 499
Yan Zhang, Shuguang Huang, Yongyi Wang, and Min Zhang

Design and Implement of a Scheduling Strategy Based on PSO Algorithm ............................................................................................. 508
Suqin Liu, Jing Wang, Xingsheng Li, Jun Shuo, and Huihui Liu

Optimal Design for 2-DOF PID Regulator Based on PSO Algorithm .......................................................... 515
Haiwen Wang, Jinggang Zhang, Yuewei Dai, and Junhai Qu

An Examination on Emergence from Social Behavior: A Case in Information Retrieval ................................................................. 523
Daren Li, Muyun Yang, Sheng Li, and Tiejun Zhao

A Novel Fault Diagnosis Method Based-on Modified Neural Networks for Photovoltaic Systems .......................................................... 531
Kuei-Hsiang Chao, Chao-Ting Chen, Meng-Hui Wang, and Chun-Fu Wu

Wavelet Packet and Generalized Gaussian Density Based Textile Pattern Classification Using BP Neural Network ....................... 540
Yean Yin, Liang Zhang, Miao Jin, and Sunyi Xie
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Quality Prediction in Yinchuan by Using Neural Networks</td>
<td>548</td>
</tr>
<tr>
<td>Fengjun Li</td>
<td></td>
</tr>
<tr>
<td>Application of Artificial Neural Network in Composite Research</td>
<td>558</td>
</tr>
<tr>
<td>Peixian Zhu, Shenggang Zhou, Jie Zhen, and Yuhui Li</td>
<td></td>
</tr>
<tr>
<td>Application of Short-Term Load Forecasting Based on Improved</td>
<td>564</td>
</tr>
<tr>
<td>Gray-Markov Residuals Amending of BP Neural Network</td>
<td></td>
</tr>
<tr>
<td>Dongxiao Niu, Cong Xu, Jianking Li, and Yanan Wei</td>
<td></td>
</tr>
<tr>
<td>The RBFNN’s Application in Nonlinear System Model Based on Improved</td>
<td>570</td>
</tr>
<tr>
<td>APC-III Algorithm</td>
<td></td>
</tr>
<tr>
<td>Xinping Liu, Xiwen Xue, and Mingwen Zheng</td>
<td></td>
</tr>
<tr>
<td>An Improved Harmony Search Algorithm with Dynamic Adaptation for</td>
<td>576</td>
</tr>
<tr>
<td>Location of Critical Slip Surface</td>
<td></td>
</tr>
<tr>
<td>Shibao Lu, Weijuan Meng, and Liang Li</td>
<td></td>
</tr>
<tr>
<td>Verifying Election Campaign Optimization Algorithm by Several</td>
<td>582</td>
</tr>
<tr>
<td>Benchmarking Functions</td>
<td></td>
</tr>
<tr>
<td>Wenge Lu, Qinghua Xie, Zhiyong Liu, Deyuan Li, Siyuan Cheng, Shaoming Luo, and Xiangwei Zhang</td>
<td></td>
</tr>
</tbody>
</table>

**Data Mining Algorithms and Applications**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>An Algorithm of Alternately Mining Frequent Neighboring Class Set</td>
<td>588</td>
</tr>
<tr>
<td>Gang Fang</td>
<td></td>
</tr>
<tr>
<td>Internet Public Opinion Hotspot Detection Research Based on K-means</td>
<td>594</td>
</tr>
<tr>
<td>Hong Liu and Xiaojun Li</td>
<td></td>
</tr>
<tr>
<td>A Traffic Video Background Extraction Algorithm Based on Image</td>
<td>603</td>
</tr>
<tr>
<td>Bo Qin, Jingjing Wang, Jian Gao, Titi Pang, and Fang Su</td>
<td></td>
</tr>
<tr>
<td>A Novel Clustering and Verification Based Microarray Data Bi-</td>
<td>611</td>
</tr>
<tr>
<td>clustering Method</td>
<td></td>
</tr>
<tr>
<td>Yanjie Zhang, Hong Wang, and Zhangyi Hu</td>
<td></td>
</tr>
<tr>
<td>FCM Clustering Method Based Research on the Fluctuation Phenomenon</td>
<td>619</td>
</tr>
<tr>
<td>in Power Network</td>
<td></td>
</tr>
<tr>
<td>Huiqiong Deng, Weilu Zhu, Shuai Wang, Keju Sun, Yanming Huo, and Lihua Sun</td>
<td></td>
</tr>
<tr>
<td>A Multimodality Medical Image Fusion Algorithm Based on Wavelet</td>
<td>627</td>
</tr>
<tr>
<td>Transform</td>
<td></td>
</tr>
<tr>
<td>Jionghua Teng, Xue Wang, Jingzhou Zhang, Suhuan Wang, and Pengfei Hu</td>
<td></td>
</tr>
</tbody>
</table>
XVIII Table of Contents – Part II

Adjusting the Clustering Results Referencing an External Set .............. 634

Baojia Li, Yongqian Liu, and Mingzhu Liu

Sensitivity Analysis on Single Activity to Network Float in CPM Network Planning ................................................................. 641

Zhixiong Su and Jianxun Qi

Research on Hand Language Video Retrieval .................................... 648

Shilin Zhang and Mei Gu

Other Applications

Research on Preprocess Approach for Uncertain System Based on Rough Set ................................................................. 656

Xu E, Lijin Fan, Sheng Li, Jiaxin Yang, Hao Wu, Tao Qu, and Haijun Mu

Research on the Synergy Model between Knowledge Capital and Regional Economic Development ......................................... 664

Cisheng Wu and Meng Song

Research on Benefits Distribution Model for Maintenance Partnerships of the Single-Core MPN ............................................... 672

Taofen Li, Shuili Yang, and Yao Yao

Illumination Invariant Color Model for Object Recognition in Robot Soccer ................................................................. 680

Xin Luan, Weiwei Qi, Dalei Song, Ming Chen, Tieyi Zhu, and Li Wang

A New Algorithm of an Improved Detection of Moving Vehicles ........ 688

Huanglin Zeng and Zhenya Wang

An Improved Combination of Constant Modulus Algorithms Used in Underwater Acoustic Channels ....................................... 694

Xiaoling Ning, Zhong Liu, and Yasong Luo

PID Control Analysis of Brake Test Bench ..................................... 701

Rui Zhang, Haiyin Li, and Huimin Xiao

The Dual Model of a Repairable System ...................................... 708

Yunfei Guo, Maosheng Lai, and Zhe Yin

A Comprehensive Study of Neutral-Point-Clamped Voltage Source PWM Rectifiers ................................................................. 718

Guojun Tan, Zongbin Ye, Yuan Li, Yaofei Han, and Wei Jing

FPGA-Based Cooling Fan Control System for Automobile Engine ....... 728

Meihua Xu, Fangjie Zhao, and Lianzhou Wang

Author Index ............................................................................. 737
Table of Contents – Part I

Theoretical Analysis of Swarm Intelligence Algorithms

Stability Problem for a Predator-Prey System ................................. 1
   Zvi Retchkiman Konigsberg

Study on the Local Search Ability of Particle Swarm Optimization ... 11
   Yuanxia Shen and Guoyin Wang

The Performance Measurement of a Canonical Particle Swarm
Optimizer with Diversive Curiosity ........................................... 19
   Hong Zhang and Jie Zhang

Mechanism and Convergence of Bee-Swarm Genetic Algorithm ........ 27
   Di Wu, Rongyi Cui, Changrong Li, and Guangjun Song

On the Farther Analysis of Performance of the Artificial Searching
Swarm Algorithm .................................................................. 34
   Tanggong Chen, Lijie Zhang, and Lingling Pang

Orthogonality and Optimality in Non-Pheromone Mediated Foraging .. 42
   Sanza Kazadi, James Yang, James Park, and Andrew Park

An Adaptive Staged PSO Based on Particles’ Search Capabilities ...... 52
   Kun Liu, Ying Tan, and Xingui He

PSO Algorithms

A New Particle Swarm Optimization Algorithm and Its Numerical
Analysis .................................................................................. 60
   Yuelin Gao, Fanfan Lei, and Miaomiao Wang

A New PSO Model Mimicking Bio-parasitic Behavior .................... 68
   Quande Qin, Rongjun Li, Ben Niu, and Li Li

KNOB Particle Swarm Optimizer ................................................. 78
   Junqi Zhang, Kun Liu, and Ying Tan

Grouping-Shuffling Particle Swarm Optimization: An Improved PSO
for Continuous Optimization ...................................................... 86
   Yinghai Li, Xiaohua Dong, and Ji Liu

Gender-Hierarchy Particle Swarm Optimizer Based on Punishment ..... 94
   Jiaquan Gao, Hao Li, and Luoke Hu
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>An Improved Probability Particle Swarm Optimization Algorithm</td>
<td>102</td>
</tr>
<tr>
<td><em>Qiang Lu</em> and <em>Xuena Qiu</em></td>
<td></td>
</tr>
<tr>
<td>An Automatic Niching Particle Swarm for Multimodal Function Optimization</td>
<td>110</td>
</tr>
<tr>
<td><em>Yu Liu</em>, <em>Zhaofa Yan</em>, <em>Wentao Li</em>, <em>Mingwei Lv</em>, and <em>Yuan Yao</em></td>
<td></td>
</tr>
<tr>
<td>An Availability-Aware Task Scheduling for Heterogeneous Systems</td>
<td>120</td>
</tr>
<tr>
<td>Using Quantum-behaved Particle Swarm Optimization</td>
<td></td>
</tr>
<tr>
<td><em>Hao Yuan</em>, <em>Yong Wang</em>, and <em>Long Chen</em></td>
<td></td>
</tr>
<tr>
<td>A Novel Encoding Scheme of PSO for Two-Machine Group Scheduling</td>
<td>128</td>
</tr>
<tr>
<td><em>Cheng-Dar Liou</em> and <em>Chun-Hung Liu</em></td>
<td></td>
</tr>
<tr>
<td>Improved Quantum Particle Swarm Optimization by Bloch Sphere</td>
<td>135</td>
</tr>
<tr>
<td><em>Yu Du</em>, <em>Haibin Duan</em>, <em>Renjie Liao</em>, and <em>Xihua Li</em></td>
<td></td>
</tr>
<tr>
<td>An Improved Particle Swarm Optimization for Permutation Flowshop Scheduling Problem with Total Flowtime Criterion</td>
<td>144</td>
</tr>
<tr>
<td><em>Xianpeng Wang</em> and <em>Lixin Tang</em></td>
<td></td>
</tr>
</tbody>
</table>

**Applications of PSO Algorithms**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broadband MVDR Beamformer Applying PSO</td>
<td>152</td>
</tr>
<tr>
<td><em>Liang Wang</em> and <em>Zhijie Song</em></td>
<td></td>
</tr>
<tr>
<td>Medical Image Registration Algorithm with Generalized Mutual</td>
<td>160</td>
</tr>
<tr>
<td>Information and PSO-Powell Hybrid Algorithm</td>
<td></td>
</tr>
<tr>
<td><em>Jingzhou Zhang</em>, <em>Pengfei Huo</em>, <em>Jionghua Teng</em>, <em>Xue Wang</em>, and</td>
<td></td>
</tr>
<tr>
<td><em>Suhuan Wang</em></td>
<td></td>
</tr>
<tr>
<td>Particle Swarm Optimization for Automatic Selection of Relevance</td>
<td>167</td>
</tr>
<tr>
<td>Feedback Heuristics</td>
<td></td>
</tr>
<tr>
<td><em>Peng-Yeng Yin</em></td>
<td></td>
</tr>
<tr>
<td>Performance of Optimized Fuzzy Edge Detectors Using Particle Swarm</td>
<td>175</td>
</tr>
<tr>
<td><em>Noor Elaiza Abdul Khalid</em> and <em>Mazani Manaf</em></td>
<td></td>
</tr>
<tr>
<td>PSO Heuristics Algorithm for Portfolio Optimization</td>
<td>183</td>
</tr>
<tr>
<td><em>Yun Chen</em> and <em>Hanhong Zhu</em></td>
<td></td>
</tr>
<tr>
<td>A New Particle Swarm Optimization Solution to Nonconvex Economic</td>
<td>191</td>
</tr>
<tr>
<td>Dispatch Problem</td>
<td></td>
</tr>
<tr>
<td><em>Jianhua Zhang</em>, <em>Yingxin Wang</em>, <em>Rui Wang</em>, and <em>Guolian Hou</em></td>
<td></td>
</tr>
<tr>
<td>Optimal Micro-siting of Wind Farms by Particle Swarm Optimization</td>
<td>198</td>
</tr>
<tr>
<td><em>Chunqiu Wan</em>, <em>Jun Wang</em>, <em>Geng Yang</em>, and <em>Xing Zhang</em></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Page</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>PSO Applied to Table Allocation Problems</td>
<td>206</td>
</tr>
<tr>
<td><em>David A. Braude and Anton van Wyk</em></td>
<td></td>
</tr>
<tr>
<td>Finding the Maximum Module of the Roots of a Polynomial by Particle</td>
<td>214</td>
</tr>
<tr>
<td>Swarm Optimization</td>
<td></td>
</tr>
<tr>
<td><em>Liangdong Qu and Dengxu He</em></td>
<td></td>
</tr>
<tr>
<td><strong>ACO Algorithms</strong></td>
<td></td>
</tr>
<tr>
<td>Research on the Ant Colony Optimization Algorithm with</td>
<td></td>
</tr>
<tr>
<td>Multi-population Hierarchy Evolution</td>
<td>222</td>
</tr>
<tr>
<td><em>Xuzhi Wang, Jing Ni, and Wanggen Wan</em></td>
<td></td>
</tr>
<tr>
<td>Graph Partitioning Using Improved Ant Clustering</td>
<td>231</td>
</tr>
<tr>
<td><em>M. Sami Soliman and Guanzheng Tan</em></td>
<td></td>
</tr>
<tr>
<td>A Knowledge-Based Ant Colony Optimization for a Grid Workflow</td>
<td>241</td>
</tr>
<tr>
<td>Scheduling Problem</td>
<td></td>
</tr>
<tr>
<td><em>Yanli Hu, Lining Xing, Weiming Zhang, Weidong Xiao, and Daquan Tang</em></td>
<td></td>
</tr>
<tr>
<td>An Improved Parallel Ant Colony Optimization Based on Message Passing</td>
<td>249</td>
</tr>
<tr>
<td>Interface</td>
<td></td>
</tr>
<tr>
<td><em>Jie Xiong, Xiaohong Meng, and Caiyun Liu</em></td>
<td></td>
</tr>
<tr>
<td><strong>Applications of ACO Algorithms</strong></td>
<td></td>
</tr>
<tr>
<td>Research on Fault Diagnosis Based on BP Neural Network Optimized by</td>
<td>257</td>
</tr>
<tr>
<td>Chaos Ant Colony Algorithm</td>
<td></td>
</tr>
<tr>
<td><em>Liuyi Ling, Yourui Huang, and Liguoy Qu</em></td>
<td></td>
</tr>
<tr>
<td>Edge Detection of Laser Range Image Based on a Fast Adaptive Ant</td>
<td>265</td>
</tr>
<tr>
<td>Colony Algorithm</td>
<td></td>
</tr>
<tr>
<td><em>Yonghua Wu, Yihua Hu, Wuhu Lei, Nanxiang Zhao, and Tao Huang</em></td>
<td></td>
</tr>
<tr>
<td>A Real-Time Moving Ant Estimator for Bearings-Only Tracking</td>
<td>273</td>
</tr>
<tr>
<td><em>Jihong Zhu, Benlian Xu, Fei Wang, and Zhiquan Wang</em></td>
<td></td>
</tr>
<tr>
<td>Two-Stage Inter-Cell Layout Design for Cellular Manufacturing by</td>
<td>281</td>
</tr>
<tr>
<td>Using Ant Colony Optimization Algorithms</td>
<td></td>
</tr>
<tr>
<td><em>Bo Xing, Wen-jing Gao, Fulufhelo V. Nelwamondo, Kimberly Battle, and Tshilidzi Marwala</em></td>
<td></td>
</tr>
<tr>
<td>Images Boundary Extraction Based on Curve Evolution and Ant Colony</td>
<td>290</td>
</tr>
<tr>
<td>Algorithm</td>
<td></td>
</tr>
<tr>
<td><em>JinJiang Li, Da Yuan, Zhen Hua, and Hui Fan</em></td>
<td></td>
</tr>
<tr>
<td>ACO Based Energy-Balance Routing Algorithm for WSNs</td>
<td>298</td>
</tr>
<tr>
<td><em>Xuepeng Jiang and Bei Hong</em></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Page</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Swarm Intelligence Algorithms for Portfolio Optimization</td>
<td>306</td>
</tr>
<tr>
<td>Hanhong Zhu, Yun Chen, and Kesheng Wang</td>
<td></td>
</tr>
<tr>
<td><strong>Artificial Immune System</strong></td>
<td></td>
</tr>
<tr>
<td>Document Classification with Multi-layered Immune Principle</td>
<td>314</td>
</tr>
<tr>
<td>Chunlin Liang, Yindie Hong, Yuefeng Chen, and Lingxi Peng</td>
<td></td>
</tr>
<tr>
<td>A Quantum Immune Algorithm for Multiobjective Parallel Machine</td>
<td>321</td>
</tr>
<tr>
<td>Zhiming Fang</td>
<td></td>
</tr>
<tr>
<td>A Resource Limited Immune Approach for Evolving Architecture and</td>
<td>328</td>
</tr>
<tr>
<td>Weights of Multilayer Neural Network</td>
<td></td>
</tr>
<tr>
<td>Xiaoyang Fu, Shuqing Zhang, and Zhenping Pang</td>
<td></td>
</tr>
<tr>
<td>Cryptanalysis of Four-Rounded DES Using Binary Artificial Immune</td>
<td>338</td>
</tr>
<tr>
<td>System</td>
<td></td>
</tr>
<tr>
<td>Syed Ali Abbas Hamdani, Sarah Shafiq, and Farrukh Aslam Khan</td>
<td></td>
</tr>
<tr>
<td>An Immune Concentration Based Virus Detection Approach Using</td>
<td>347</td>
</tr>
<tr>
<td>Particle Swarm Optimization</td>
<td></td>
</tr>
<tr>
<td>Wei Wang, Pengtao Zhang, and Ying Tan</td>
<td></td>
</tr>
<tr>
<td><strong>Novel Swarm-Based Optimization Algorithms</strong></td>
<td></td>
</tr>
<tr>
<td>Fireworks Algorithm for Optimization</td>
<td>355</td>
</tr>
<tr>
<td>Ying Tan and Yuanchun Zhu</td>
<td></td>
</tr>
<tr>
<td>Bacterial Foraging Optimization Algorithm with Particle Swarm</td>
<td>365</td>
</tr>
<tr>
<td>Optimization Strategy for Distribution Network Reconfiguration</td>
<td></td>
</tr>
<tr>
<td>Tianlei Zang, Zhengyou He, and Deyi Ye</td>
<td></td>
</tr>
<tr>
<td>Optimization Design of Flash Structure for Forging Die Based on</td>
<td>373</td>
</tr>
<tr>
<td>Kriging-PSO Strategy</td>
<td></td>
</tr>
<tr>
<td>Yu Zhang, Zhiguo An, and Jie Zhou</td>
<td></td>
</tr>
<tr>
<td>A Scatter Search Algorithm for the Slab Stack Shuffling Problem</td>
<td>382</td>
</tr>
<tr>
<td>Xu Cheng and Lixin Tang</td>
<td></td>
</tr>
<tr>
<td>Collaboration Algorithm of FSMAS</td>
<td>390</td>
</tr>
<tr>
<td>Qingshan Li, Dan Jiang, Haishun Yun, and He Liu</td>
<td></td>
</tr>
<tr>
<td>GPU-Based Parallelization Algorithm for 2D Line Integral Convolution</td>
<td>397</td>
</tr>
<tr>
<td>Bo Qin, Zhanbin Wu, Fang Su, and Titi Pang</td>
<td></td>
</tr>
<tr>
<td>Biogeography Migration Algorithm for Traveling Salesman Problem</td>
<td>405</td>
</tr>
<tr>
<td>Hongwei Mo and Lifang Xu</td>
<td></td>
</tr>
</tbody>
</table>
### Genetic Algorithms

A Rapid Chaos Genetic Algorithm ................................. 425  
*Jian Gao, Ming Xiao, and Wei Zhang*

Optimization ......................................................... 432  
*Xinchi Yan and Xiaohan Wang*

Using Genetic Algorithm for Classification in Face Recognition .......... 439  
*Xiaochuan Zhao*

Dynamic Path Optimization of Emergency Transport Based on  
Hierarchical Genetic Algorithm ........................................ 445  
*Yongjie Ma, Ye Tian, and Wenjing Hou*

Fault Diagnosis of Analog Circuits Using Extension Genetic  
Algorithm .......................................................... 453  
*Meng-Hui Wang, Kuei-Hsiang Chao, and Yu-Kuo Chung*

A Collision Detection Algorithm Based on Self-adaptive Genetic  
Method in Virtual Environment ........................................ 461  
*Jue Wu, Lixue Chen, Lei Yang, Qunyan Zhang, and Lingxi Peng*

A Non-dominated Sorting Bit Matrix Genetic Algorithm for P2P Relay  
Optimization .......................................................... 469  
*Qian He, Junliang Chen, Xiangwu Meng, and Yanlei Shang*

Fast Parallel Memetic Algorithm for Vector Quantization Based for  
Reconfigurable Hardware and Softcore Processor ........................ 479  
*Tsung-Yi Yu, Wen-Jyi Hwang, and Tsung-Che Chiang*

### Evolutionary Computation

Optimization of Minimum Completion Time MTSP Based on the  
Improved DE .......................................................... 489  
*Huiren Zhou and Yinghui Wei*

Differential Evolution for Optimization of Land Use .................. 499  
*Yanjie Zhu and Zhihui Feng*

Hybrid Differential Evolution for Knapsack Problem ..................... 505  
*Changshou Deng, Bingyan Zhao, Yanling Yang, and Anyuan Deng*
Bottom-Up Tree Evaluation in Tree-Based Genetic Programming .......................... 513
   Geng Li and Xiao-jun Zeng

Solving Vehicle Assignment Problem Using Evolutionary Computation ......................... 523
   Marina Yusoff, Junaidah Ariffin, and Azlinah Mohamed

A Computerized Approach of the Knowledge Representation of Digital Evolution Machines in an Artificial World ................................................................. 533
   Istvan Elek

An Improved Thermodynamics Evolutionary Algorithm Based on the Minimal Free Energy ................................................................. 541
   Fahong Yu, Yuanxiang Li, and Weiqin Ying

Hybrid Algorithms

A Hybrid Evolutionary Algorithm Based on Alopex and Estimation of Distribution Algorithm and Its Application for Optimization .............................................. 549
   Shaojun Li, Fei Li, and Zhenzhen Mei

A Hybrid Swarm Intelligent Method Based on Genetic Algorithm and Artificial Bee Colony ................................................................................. 558
   Haiyan Zhao, Zhili Pei, Jingqing Jiang, Renchu Guan, Chaoyong Wang, and Xiaohu Shi

A Hybrid PSO/GA Algorithm for Job Shop Scheduling Problem ................................... 566
   Jianchao Tang, Guoji Zhang, Binbin Lin, and Bixi Zhang

A Hybrid Particle Swarm Optimization Algorithm for Order Planning Problems of Steel Factory ................................................................................. 574
   Tao Zhang, Zhifang Shao, Yuejie Zhang, Zhiwang Yu, and Jianlin Jiang

Hybrid Particle Swarm and Conjugate Gradient Optimization Algorithm ................................................................. 582
   Abdallah Qteish and Mohammad Hamdan

A Hybrid of Particle Swarm Optimization and Local Search for Multimodal Functions ................................................................. 589
   Jin Qin, Yixin Yin, and Xiaojuan Ban

A Cooperative Ant Colony System and Genetic Algorithm for TSPs .......................... 597
   Gaifang Dong and William W. Guo

Tracking Control of Uncertain DC Server Motors Using Genetic Fuzzy System .................. 605
   Wei-Min Hsieh, Yih-Guang Leu, Hao-Cheng Yang, and Jian-You Lin
Multi-Objective Optimization Algorithms

Novel Multi-Objective Genetic Algorithm Based on Static Bayesian Game Strategy ................................................................. 612
Zhiyong Li, Dong Chen, Ahmed Sallam, and Li Zhao

A Hybrid Pareto-Based Tabu Search for Multi-objective Flexible Job Shop Scheduling Problem with E/T Penalty .......................... 620
Junqing Li, Quanke Pan, Shengxian Xie, and Jing Liang

Research on Multi-objective Optimization Design of the UUV Shape Based on Numerical Simulation ........................................... 628
Baowei Song, Qifeng Zhu, and Zhanyi Liu

Multi-Objective Optimization for Massive Pedestrian Evacuation Using Ant Colony Algorithm ................................................... 636
Xinlu Zong, Shengwu Xiong, Zhixiang Fang, and Qiuping Li

An Improved Immune Genetic Algorithm for Multiobjective Optimization ................................................................................ 643
Guixia He, Jiaquan Gao, and Luoke Hu

Multi-robot Systems

Enhanced Mapping of Multi-robot Using Distortion Reducing Filter Based SIFT ........................................................................... 651
Kyung-Sik Choi, Yoon-Gu Kim, Jinung An, and Suk-Gyu Lee

Study on Improved GPGP-Based Multi-agent Semiconductor Fabrication Line Dynamic Scheduling Method ................................. 659
Xin Ma and Ying He

Multi-robot Formation Control Using Reinforcement Learning Method .................................................................................... 667
Guoyu Zuo, Jiatong Han, and Guansheng Han

Development of Image Stabilization System Using Extended Kalman Filter for a Mobile Robot ..................................................... 675
Yun Won Choi, Tae Hun Kang, and Suk Gyu Lee

Multi-agent Based Complex Systems

Diffusing Method for Unknown Environment Exploration in Multi Robot Systems .............................................................. 683
Dilshat Saitov, Ki Joon Han, and Suk-Gyu Lee

Impulsive Consensus Seeking in Delayed Networks of Multi-agents .... 691
Quanjun Wu, Lan Xiang, and Jin Zhou
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Application of Multi-agent Technology on the Level of Repair Analysis</td>
<td>699</td>
</tr>
<tr>
<td>Xiangkai Liu, Yanfeng Tang, Lin Zheng, Bingfeng Zhu, and Jianing Wang</td>
<td></td>
</tr>
<tr>
<td>The Framework of an Intelligent Battlefield Damage Assessment System Based on Multi-Agent System</td>
<td>707</td>
</tr>
<tr>
<td>Xiangkai Liu, Huimei Li, Jian Zhang, Jianing Wang, and Wenhua Xing</td>
<td></td>
</tr>
<tr>
<td>Adaptive System of Heterogeneous Multi-agent Investors in an Artificial Evolutionary Double Auction Market</td>
<td>715</td>
</tr>
<tr>
<td>Chi Xu, Xiaoyu Zhao, and Zheru Chi</td>
<td></td>
</tr>
<tr>
<td>Average Consensus for Directed Networks of Multi-agent with Time-Varying Delay</td>
<td>723</td>
</tr>
<tr>
<td>Tiecheng Zhang and Hui Yu</td>
<td></td>
</tr>
<tr>
<td>Multi-Agent Cooperative Reinforcement Learning in 3D Virtual World</td>
<td>731</td>
</tr>
<tr>
<td>Ping Zhang, Xiujun Ma, Zijian Pan, Xiong Li, and Kunqing Xie</td>
<td></td>
</tr>
</tbody>
</table>

**Author Index** | 741  |