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Preface

This book and its companion volume, LNCS vols. 5263 and 5264, constitute the proceedings of the 5th International Symposium on Neural Networks (ISNN 2008) held in Beijing, the capital of China, during September 24–28, 2008. ISNN is a prestigious annual symposium on neural networks with past events held in Dalian (2004), Chongqing (2005), Chengdu (2006), and Nanjing (2007). Over the past few years, ISNN has matured into a well-established series of international symposiums on neural networks and related fields. Following the tradition, ISNN 2008 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 participants to interact with each other and exchange information on future challenges and opportunities of neural network research.

ISNN 2008 received 522 submissions from about 1,306 authors in 34 countries and regions (Australia, Bangladesh, Belgium, Brazil, Canada, China, Czech Republic, Egypt, Finland, France, Germany, Hong Kong, India, Iran, Italy, Japan, South Korea, Malaysia, Mexico, The Netherlands, New Zealand, Poland, Qatar, Romania, Russia, Singapore, South Africa, Spain, Switzerland, Taiwan, Turkey, UK, USA, Virgin Islands (UK)) across six continents (Asia, Europe, North America, South America, Africa, and Oceania). Based on rigorous reviews by the Program Committee members and reviewers, 192 high-quality papers were selected for publication in the proceedings with an acceptance rate of 36.7%. These papers were organized in 18 cohesive sections covering all major topics of neural network research and development. In addition to the contributed papers, the ISNN 2008 technical program included four plenary speeches by Dimitri P. Bertsekas (Massachusetts Institute of Technology, USA), Helge Ritter (Bayreuth University, Germany), Jennie Si (Arizona State University, USA), and Hang Li (Microsoft Research Asia, China). Besides the regular sessions and panels, ISNN 2008 also featured four special sessions focusing on some emerging topics.

As organizers of ISNN 2008, we would like to express our sincere thanks to Tsinghua University, Peking University, The Chinese University of Hong Kong, and Institute of Automation at the Chinese Academy of Sciences for their sponsorship, to the IEEE Computational Intelligence Society, International Neural Network Society, European Neural Network Society, Asia Pacific Neural Network Assembly, the China Neural Networks Council, and the National Natural Science Foundation of China for their technical co-sponsorship. We thank the National Natural Science Foundation of China and Microsoft Research Asia for their financial and logistic support.

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. In particular, we would

like to thank Springer for publishing the proceedings in the prestigious series of *Lecture Notes in Computer Science*. Meanwhile, we wish to express our heartfelt appreciation to the plenary and panel speakers, special session organizers, 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 ISSN 2008 successful and all the hard work worthwhile.

September 2008

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Table of Contents – Part I

Computational Neuroscience

Single Trial Evoked Potentials Study during an Emotional Processing Based on Wavelet Transform	1
<i>Ling Zou, Renlai Zhou, Senqi Hu, Jing Zhang, and Yansong Li</i>	
Robust Speaker Modeling Based on Constrained Nonnegative Tensor Factorization	11
<i>Qiang Wu, Liqing Zhang, and Guangchuan Shi</i>	
A Hypothesis on How the Neocortex Extracts Information for Prediction in Sequence Learning	21
<i>Weiyu Wang</i>	
MENN Method Applications for Stock Market Forecasting	30
<i>Guangfeng Jia, Yuehui Chen, and Peng Wu</i>	
New Chaos Produced from Synchronization of Chaotic Neural Networks	40
<i>Zunshui Cheng</i>	
A Two Stage Energy Model Exhibiting Selectivity to Changing Disparity	47
<i>Xiaojiang Guo and Bertram E. Shi</i>	
A Feature Extraction Method Based on Wavelet Transform and NMFs	55
<i>Suwen Zhang, Wanyin Deng, and Dandan Miao</i>	

Cognitive Science

Similarity Measures between Connection Numbers of Set Pair Analysis	63
<i>Junjie Yang, Jianzhong Zhou, Li Liu, Yinghai Li, and Zhengjia Wu</i>	
Temporal Properties of Illusory-Surface Perception Probed with Poggendorff Configuration	69
<i>Qin Wang and Marsanori Idesawa</i>	
Interval Self-Organizing Map for Nonlinear System Identification and Control	78
<i>Luzhou Liu, Jian Xiao, and Long Yu</i>	

A Dual-Mode Learning Mechanism Combining Knowledge-Education and Machine-Learning	87
<i>Yichang Chen and Anpin Chen</i>	
The Effect of Task Relevance on Electrophysiological Response to Emotional Stimuli	97
<i>Baolin Liu, Shuai Xin, Zhixing Jin, Xiaorong Gao, Shangkai Gao, Renxin Chu, Yongfeng Huang, and Beixing Deng</i>	
A Detailed Study on the Modulation of Emotion Processing by Spatial Location	107
<i>Baolin Liu, Shuai Xin, Zhixing Jin, Xiaorong Gao, Shangkai Gao, Renxin Chu, Beixing Deng, and Yongfeng Huang</i>	
Mathematical Modeling of Neural Systems	
MATLAB Simulation and Comparison of Zhang Neural Network and Gradient Neural Network for Time-Varying Lyapunov Equation Solving	117
<i>Yunong Zhang, Shuai Yue, Ke Chen, and Chenfu Yi</i>	
Improved Global Exponential Stability Criterion for BAM Neural Networks with Time-Varying Delays	128
<i>Yonggang Chen and Tiheng Qin</i>	
Global Exponential Stability and Periodicity of CNNs with Time-Varying Discrete and Distributed Delays	138
<i>Shengle Fang, Minghui Jiang, and Wenfang Fu</i>	
Estimation of Value-at-Risk for Exchange Risk Via Kernel Based Nonlinear Ensembled Multi Scale Model	148
<i>Kaijian He, Chi Xie, and Kinkeung Lai</i>	
Delay-Dependent Global Asymptotic Stability in Neutral-Type Delayed Neural Networks with Reaction-Diffusion Terms	158
<i>Jianlong Qiu, Yinlai Jin, and Qingyu Zheng</i>	
Discrimination of Reconstructed Milk in Raw Milk by Combining Near Infrared Spectroscopy with Biomimetic Pattern Recognition	168
<i>Ming Sun, Qigao Feng, Dong An, Yaoguang Wei, Jibo Si, and Longsheng Fu</i>	
Data Fusion Based on Neural Networks and Particle Swarm Algorithm and Its Application in Sugar Boiling	176
<i>Yanmei Meng, Sijie Yan, Zhihong Tang, Yuanling Chen, and Jingneng Liu</i>	

Asymptotic Law of Likelihood Ratio for Multilayer Perceptron Models	186
<i>Joseph Rynkiewicz</i>	
An On-Line Learning Radial Basis Function Network and Its Application	196
<i>Nini Wang, Xiaodong Liu, and Jianchuan Yin</i>	
A Hybrid Model of Partial Least Squares and RBF Neural Networks for System Identification	204
<i>Nini Wang, Xiaodong Liu, and Jianchuan Yin</i>	
Nonlinear Complex Neural Circuits Analysis and Design by q-Value Weighted Bounded Operator	212
<i>Hong Hu and Zhongzhi Shi</i>	
Fuzzy Hyperbolic Neural Network Model and Its Application in H_∞ Filter Design	222
<i>Shuxian Lun, Zhaozheng Guo, and Huaquang Zhang</i>	
On the Domain Attraction of Fuzzy Neural Networks	231
<i>Tingwen Huang, Xiaofeng Liao, and Hui Huang</i>	
CG-M-FOCUSS and Its Application to Distributed Compressed Sensing	237
<i>Zhaoshui He, Andrzej Cichocki, Rafal Zdunek, and Jianting Cao</i>	
Dynamic of Cohen-Grossberg Neural Networks with Variable Coefficients and Time-Varying Delays	246
<i>Xuehui Mei and Haijun Jiang</i>	
Permutation Free Encoding Technique for Evolving Neural Networks ...	255
<i>Anupam Das, Md. Shohrab Hossain, Saeed Muhammad Abdullah, and Rashed Ul Islam</i>	
Six-Element Linguistic Truth-Valued Intuitionistic Reasoning in Decision Making	266
<i>Li Zou, Wenjiang Li, and Yang Xu</i>	
A Sequential Learning Algorithm for RBF Networks with Application to Ship Inverse Control	275
<i>Gexin Bi and Fang Dong</i>	

Stability and Nonlinear Analysis

Implementation of Neural Network Learning with Minimum L_1 -Norm Criteria in Fractional Order Non-gaussian Impulsive Noise Environments	283
<i>Daifeng Zha</i>	

Stability of Neural Networks with Parameters Disturbed by White Noises	291
<i>Wuyi Zhang and Wudai Liao</i>	
Neural Control of Uncertain Nonlinear Systems with Minimum Control Effort	299
<i>Dingguo Chen, Jiaben Yang, and Ronald R. Mohler</i>	
Three Global Exponential Convergence Results of the GPNN for Solving Generalized Linear Variational Inequalities	309
<i>Xiaolin Hu, Zhigang Zeng, and Bo Zhang</i>	
Disturbance Attenuating Controller Design for a Class of Nonlinear Systems with Unknown Time-Delay	319
<i>Geng Ji</i>	
Stability Criteria with Less Variables for Neural Networks with Time-Varying Delay	330
<i>Tao Li, Xiaoling Ye, and Yingchao Zhang</i>	
Robust Stability of Uncertain Neural Networks with Time-Varying Delays	338
<i>Wei Feng, Haixia Wu, and Wei Zhang</i>	
Novel Coupled Map Lattice Model for Prediction of EEG Signal	347
<i>Minfen Shen, Lanxin Lin, and Guoliang Chang</i>	
Adaptive Synchronization of Delayed Chaotic Systems	357
<i>Lidan Wang and Shukai Duan</i>	

Feedforward and Fuzzy Neural Networks

Research on Fish Intelligence for Fish Trajectory Prediction Based on Neural Network	364
<i>Yanmin Xue, Hongzhao Liu, Xiaohui Zhang, and Mamoru Minami</i>	
A Hybrid MCDM Method for Route Selection of Multimodal Transportation Network	374
<i>Lili Qu and Yan Chen</i>	
Function Approximation by Neural Networks	384
<i>Fengjun Li</i>	
Robot Navigation Based on Fuzzy RL Algorithm	391
<i>Yong Duan, Baoxia Cui, and Huaqing Yang</i>	

Nuclear Reactor Reactivity Prediction Using Feed Forward Artificial Neural Networks	400
<i>Shan Jiang, Christopher C. Pain, Jonathan N. Carter, Ahmet K. Ziver, Matthew D. Eaton, Anthony J.H. Goddard, Simon J. Franklin, and Heather J. Phillips</i>	
Active Noise Control Using a Feedforward Network with Online Sequential Extreme Learning Machine	410
<i>Qizhi Zhang and Yali Zhou</i>	

Probabilistic Methods

A Probabilistic Method to Estimate Life Expectancy of Application Software	417
<i>Shengzhong Yuan and Hong He</i>	
Particle Filter with Improved Proposal Distribution for Vehicle Tracking	422
<i>Huaping Liu and Fuchun Sun</i>	
Cluster Selection Based on Coupling for Gaussian Mean Fields	432
<i>Yarui Chen and Shizhong Liao</i>	
Multiresolution Image Fusion Algorithm Based on Block Modeling and Probabilistic Model	442
<i>Chenglin Wen and Jingli Gao</i>	
An Evolutionary Approach for Vector Quantization Codebook Optimization	452
<i>Carlos R.B. Azevedo, Esdras L. Bispo Junior, Tiago A.E. Ferreira, Francisco Madeiro, and Marcelo S. Alencar</i>	
Kernel-Based Text Classification on Statistical Manifold	462
<i>Shibin Zhou, Shidong Feng, and Yushu Liu</i>	
A Boost Voting Strategy for Knowledge Integration and Decision Making	472
<i>Haibo He, Yuan Cao, Jinyu Wen, and Shijie Cheng</i>	

Supervised Learning

A New Strategy for Predicting Eukaryotic Promoter Based on Feature Boosting	482
<i>Shuanhu Wu, Qingshang Zeng, Yinbin Song, Lihong Wang, and Yanjie Zhang</i>	
Searching for Interacting Features for Spam Filtering	491
<i>Chuanliang Chen, Yunchao Gong, Rongfang Bie, and Xiaozhi Gao</i>	

Structural Support Vector Machine.....	501
<i>Hui Xue, Songcan Chen, and Qiang Yang</i>	
The Turning Points on MLP’s Error Surface.....	512
<i>Hung-Han Chen</i>	
Parallel Fuzzy Reasoning Models with Ensemble Learning.....	521
<i>Hiromi Miyajima, Noritaka Shigei, Shinya Fukumoto, and Toshiaki Miike</i>	
Classification and Dimension Reduction in Bank Credit Scoring System	531
<i>Bohan Liu, Bo Yuan, and Wenhuan Liu</i>	
Polynomial Nonlinear Integrals	539
<i>JinFeng Wang, KwongSak Leung, KinHong Lee, and Zhenyuan Wang</i>	
Testing Error Estimates for Regularization and Radial Function Networks	549
<i>Petra Vidnerová and Roman Neruda</i>	

Unsupervised Learning

A Practical Clustering Algorithm	555
<i>Wei Li, Haohao Li, and Jianye Chen</i>	
Concise Coupled Neural Network Algorithm for Principal Component Analysis	561
<i>Lijun Liu, Jun Tie, and Tianshuang Qiu</i>	
Spatial Clustering with Obstacles Constraints by Hybrid Particle Swarm Optimization with GA Mutation	569
<i>Xueping Zhang, Hui Yin, Hongmei Zhang, and Zhongshan Fan</i>	
Analysis of the Kurtosis-Sum Objective Function for ICA	579
<i>Fei Ge and Jinwen Ma</i>	
BYY Harmony Learning on Weibull Mixture with Automated Model Selection	589
<i>Zhijie Ren and Jinwen Ma</i>	
A BYY Split-and-Merge EM Algorithm for Gaussian Mixture Learning	600
<i>Lei Li and Jinwen Ma</i>	
A Comparative Study on Clustering Algorithms for Multispectral Remote Sensing Image Recognition.....	610
<i>Lintao Wen, Xinyu Chen, and Ping Guo</i>	

A Gradient BYY Harmony Learning Algorithm for Straight Line Detection	618
<i>Gang Chen, Lei Li, and Jinwen Ma</i>	

Support Vector Machine and Kernel Methods

An Estimation of the Optimal Gaussian Kernel Parameter for Support Vector Classification.....	627
<i>Wenjian Wang and Liang Ma</i>	
Imbalanced SVM Learning with Margin Compensation	636
<i>Chan-Yun Yang, Jianjun Wang, Jr-Syu Yang, and Guo-Ding Yu</i>	
Path Algorithms for One-Class SVM	645
<i>Liang Zhou, Fuxin Li, and Yanwu Yang</i>	
Simulations for American Option Pricing Under a Jump-Diffusion Model: Comparison Study between Kernel-Based and Regression-based Methods	655
<i>Hyun-Joo Lee, Seung-Ho Yang, Gyu-Sik Han, and Jaewook Lee</i>	
Global Convergence Analysis of Decomposition Methods for Support Vector Regression	663
<i>Jun Guo and Norikazu Takahashi</i>	
Rotating Fault Diagnosis Based on Wavelet Kernel Principal Component	674
<i>L. Guo, G.M. Dong, J. Chen, Y. Zhu, and Y.N. Pan</i>	
Inverse System Identification of Nonlinear Systems Using LSSVM Based on Clustering	682
<i>Changyin Sun, Chaoru Mu, and Hua Liang</i>	
A New Approach to Division of Attribute Space for SVR Based Classification Rule Extraction	691
<i>Dexian Zhang, Ailing Duan, Yanfeng Fan, and Ziqiang Wang</i>	
Chattering-Free LS-SVM Sliding Mode Control	701
<i>Jianning Li, Yibo Zhang, and Haipeng Pan</i>	
Selection of Gaussian Kernel Parameter for SVM Based on Convex Estimation	709
<i>Changqian Men and Wenjian Wang</i>	
Multiple Sources Data Fusion Strategies Based on Multi-class Support Vector Machine	715
<i>Luo Zhong, Zhe Li, Zichun Ding, Cuicui Guo, and Huazhu Song</i>	

A Generic Diffusion Kernel for Semi-supervised Learning	723
<i>Lei Jia and Shizhong Liao</i>	
Weighted Hyper-sphere SVM for Hypertext Classification	733
<i>Shuang Liu and Guoyou Shi</i>	
Theoretical Analysis of a Rigid Coreset Minimum Enclosing Ball Algorithm for Kernel Regression Estimation	741
<i>Xunkai Wei and Yinghong Li</i>	
Kernel Matrix Learning for One-Class Classification	753
<i>Chengqun Wang, Jiangang Lu, Chonghai Hu, and Youxian Sun</i>	
Structure Automatic Change in Neural Network	762
<i>Han Honggui, Qiao Junfei, and Li Xinyuan</i>	

Hybrid Optimisation Algorithms

Particle Swarm Optimization for Two-Stage FLA Problem with Fuzzy Random Demands	776
<i>Yankui Liu, Siyuan Shen, and Rui Qin</i>	
T-S Fuzzy Model Identification Based on Chaos Optimization	786
<i>Chaoshun Li, Jianzhong Zhou, Xueli An, Yaoyao He, and Hui He</i>	
ADHDP for the pH Value Control in the Clarifying Process of Sugar Cane Juice	796
<i>Xiaofeng Lin, Shengyong Lei, Chunling Song, Shaojian Song, and Derong Liu</i>	
Dynamic PSO-Neural Network: A Case Study for Urban Microcosmic Mobile Emission	806
<i>Chaozhong Wu, Chengwei Xu, Xinpeng Yan, and Jing Gong</i>	
An Improvement to Ant Colony Optimization Heuristic	816
<i>Youmei Li, Zongben Xu, and Feilong Cao</i>	
Extension of a Polynomial Time Mehrotra-Type Predictor-Corrector Safeguarded Algorithm to Monotone Linear Complementarity Problems	826
<i>Mingwang Zhang and Yanli Lv</i>	
QoS Route Discovery of Ad Hoc Networks Based on Intelligence Computing	836
<i>Cong Jin and Shu-Wei Jin</i>	
Memetic Algorithm-Based Image Watermarking Scheme	845
<i>Qingzhou Zhang, Ziqiang Wang, and Dexian Zhang</i>	

A Genetic Algorithm Using a Mixed Crossover Strategy	854
<i>Li-yan Zhuang, Hong-bin Dong, Jing-qing Jiang, and Chu-yi Song</i>	
Condition Prediction of Hydroelectric Generating Unit Based on Immune Optimized RBFNN	864
<i>Zhong Liu, Shuyun Zou, Shuangquan Liu, Fenghua Jin, and Xuxiang Lu</i>	
Synthesis of a Hybrid Five-Bar Mechanism with Particle Swarm Optimization Algorithm	873
<i>Ke Zhang</i>	
Robust Model Predictive Control Using a Discrete-Time Recurrent Neural Network	883
<i>Yunpeng Pan and Jun Wang</i>	
A PSO-Based Method for Min- ε Approximation of Closed Contour Curves	893
<i>Bin Wang, Chaojian Shi, and Jing Li</i>	
Author Index	903

Table of Contents – Part II

Machine Learning and Data Mining

Rough Set Combine BP Neural Network in Next Day Load Curve Forecasting	1
<i>Chun-Xiang Li, Dong-Xiao Niu, and Li-Min Meng</i>	
Improved Fuzzy Clustering Method Based on Entropy Coefficient and Its Application	11
<i>Li Liu, Jianzhong Zhou, Xueli An, Yinghai Li, and Qiang Liu</i>	
An Algorithm of Constrained Spatial Association Rules Based on Binary	21
<i>Gang Fang, Zukuan Wei, and Qian Yin</i>	
Sequential Proximity-Based Clustering for Telecommunication Network Alarm Correlation	30
<i>Yan Liu, Jing Zhang, Xin Meng, and John Strassner</i>	
A Fast Parallel Association Rules Mining Algorithm Based on FP-Forest	40
<i>Jian Hu and Xiang Yang-Li</i>	
Improved Algorithm for Image Processing in TCON of TFT-LCD	50
<i>Feng Ran, Lian-zhou Wang, and Mei-hua Xu</i>	
Clustering Using Normalized Path-Based Metric	57
<i>Jundi Ding, Runing Ma, Songcan Chen, and Jingyu Yang</i>	
Association Rule Mining Based on the Semantic Categories of Tourism Information	67
<i>Yipeng Zhou, Junping Du, Guangping Zeng, and Xuyan Tu</i>	
The Quality Monitoring Technology in the Process of the Pulping Papermaking Alkaline Steam Boiling Based on Neural Network	74
<i>Jianjun Su, Yanmei Meng, Chaolin Chen, Funing Lu, and Sijie Yan</i>	
A New Self-adjusting Immune Genetic Algorithm	81
<i>Shaojie Qiao, Changjie Tang, Shucheng Dai, Mingfang Zhu, and Binglun Zheng</i>	
Calculation of Latent Semantic Weight Based on Fuzzy Membership	91
<i>Jingtao Sun, Qiuyu Zhang, Zhanting Yuan, Wenhan Huang, Xiaowen Yan, and Jianshe Dong</i>	

Research on Spatial Clustering Acetabuliform Model and Algorithm Based on Mathematical Morphology	100
<i>Lichao Chen, Lihu Pan, and Yingjun Zhang</i>	

Intelligent Control and Robotics

Partner Selection and Evaluation in Virtual Research Center Based on Trapezoidal Fuzzy AHP	110
<i>Zhimeng Luo, Jianzhong Zhou, Qingqing Li, Li Liu, and Li Yang</i>	
A Nonlinear Hierarchical Multiple Models Neural Network Decoupling Controller	119
<i>Xin Wang, Hui Yang, Shaoyuan Li, Wenxin Liu, Li Liu, and David A. Cartes</i>	
Adaptive Dynamic Programming for a Class of Nonlinear Control Systems with General Separable Performance Index	128
<i>Qinglai Wei, Derong Liu, and Huaguang Zhang</i>	
A General Fuzzified CMAC Controller with Eligibility	138
<i>Zhipeng Shen, Ning Zhang, and Chen Guo</i>	
Case-Based Decision Making Model for Supervisory Control of Ore Roasting Process	148
<i>Jinliang Ding, Changxin Liu, Ming Wen, and Tianyou Chai</i>	
An Affective Model Applied in Playmate Robot for Children	158
<i>Jun Yu, Lun Xie, Zhiliang Wang, and Yongxiang Xia</i>	
The Application of Full Adaptive RBF NN to SMC Design of Missile Autopilot	165
<i>Jinyong Yu, Chuanjin Cheng, and Shixing Wang</i>	
Multi-Objective Optimal Trajectory Planning of Space Robot Using Particle Swarm Optimization	171
<i>Panfeng Huang, Gang Liu, Jianping Yuan, and Yangsheng Xu</i>	
The Direct Neural Control Applied to the Position Control in Hydraulic Servo System	180
<i>Yuan Kang, Yi-Wei Chen, Yeon-Pun Chang, and Ming-Huei Chu</i>	
An Application of Wavelet Networks in the Carrying Robot Walking ...	190
<i>Xiuxia Yang, Yi Zhang, Changjun Xia, Zhiyong Yang, and Wenjin Gu</i>	
TOPN Based Temporal Performance Evaluation Method of Neural Network Based Robot Controller	200
<i>Hua Xu and Peifa Jia</i>	

A Fuzzy Timed Object-Oriented Petri Net for Multi-Agent Systems	210
<i>Hua Xu and Peifa Jia</i>	
Fuzzy Reasoning Approach for Conceptual Design	220
<i>Hailin Feng, Chenxi Shao, and Yi Xu</i>	
Extension Robust Control of a Three-Level Converter for High-Speed Railway Traction	227
<i>Kuei-Hsiang Chao</i>	

Pattern Recognition

Blind Image Watermark Analysis Using Feature Fusion and Neural Network Classifier	237
<i>Wei Lu, Wei Sun, and Hongtao Lu</i>	
Gene Expression Data Classification Using Independent Variable Group Analysis	243
<i>Chunhou Zheng, Lei Zhang, Bo Li, and Min Xu</i>	
The Average Radius of Attraction Basin of Hopfield Neural Networks	253
<i>Fan Zhang and Xinhong Zhang</i>	
A Fuzzy Cluster Algorithm Based on Mutative Scale Chaos Optimization	259
<i>Chaoshun Li, Jianzhong Zhou, Qingqing Li, and Xiugiao Xiang</i>	
A Sparse Sampling Method for Classification Based on Likelihood Factor	268
<i>Linge Ding, Fuchun Sun, Hongqiao Wang, and Ning Chen</i>	
Estimation of Nitrogen Removal Effect in Groundwater Using Artificial Neural Network	276
<i>Jinlong Zuo</i>	
Sequential Fuzzy Diagnosis for Condition Monitoring of Rolling Bearing Based on Neural Network	284
<i>Huaqing Wang and Peng Chen</i>	
Evolving Neural Network Using Genetic Simulated Annealing Algorithms for Multi-spectral Image Classification	294
<i>Xiaoyang Fu and Chen Guo</i>	
Detecting Moving Targets in Ground Clutter Using RBF Neural Network	304
<i>Jian Lao, Bo Ning, Xinchun Zhang, and Jianye Zhao</i>	

Application of Wavelet Neural Networks on Vibration Fault Diagnosis for Wind Turbine Gearbox	313
<i>Qian Huang, Dongxiang Jiang, Liangyou Hong, and Yongshan Ding</i>	
Dynamical Pattern Classification of Lorenz System and Chen System ...	321
<i>Hao Cheng and Cong Wang</i>	
Research of Spam Filtering System Based on LSA and SHA	331
<i>Jingtao Sun, Qiuyu Zhang, Zhanting Yuan, Wenhan Huang, Xiaowen Yan, and Jianshe Dong</i>	
Voice Translator Based on Associative Memories	341
<i>Roberto A. Vázquez and Humberto Sossa</i>	

Audio, Image Processing and Computer Vision

Denoising Natural Images Using Sparse Coding Algorithm Based on the Kurtosis Measurement	351
<i>Li Shang, Fengwen Cao, and Jie Chen</i>	
A New Denoising Approach for Sound Signals Based on Non-negative Sparse Coding of Power Spectra	359
<i>Li Shang, Fengwen Cao, and Jinfeng Zhang</i>	
Building Extraction Using Fast Graph Search	367
<i>Dong-Min Woo, Dong-Chul Park, Seung-Soo Han, and Quoc-Dat Nguyen</i>	
Image Denoising Using Three Scales of Wavelet Coefficients	376
<i>Guangyi Chen and Wei-Ping Zhu</i>	
Image Denoising Using Neighbouring Contourlet Coefficients	384
<i>Guangyi Chen and Wei-Ping Zhu</i>	
Robust Watermark Algorithm Based on the Wavelet Moment Modulation and Neural Network Detection	392
<i>Dianhong Wang, Dongming Li, and Jun Yan</i>	
Manifold Training Technique to Reconstruct High Dynamic Range Image	402
<i>Cheng-Yuan Liou and Wei-Chen Cheng</i>	
Face Hallucination Based on CSGT and PCA	410
<i>Xiaoling Wang, Ju Liu, Jianping Qiao, Jinyu Chu, and Yujun Li</i>	
Complex Effects Simulation Based Large Particles System on GPU	419
<i>Xingquan Cai, Jinhong Li, and Zhitong Su</i>	
A Selective Attention Computational Model for Perceiving Textures	429
<i>Wooboom Lee</i>	

Classifications of Liver Diseases from Medical Digital Images	439
<i>Lequan Min, Yongan Ye, and Shubiao Gao</i>	
A Global Contour-Grouping Algorithm Based on Spectral Clustering . . .	449
<i>Hui Yin, Siwei Luo, and Yaping Huang</i>	
Emotion Recognition in Chinese Natural Speech by Combining Prosody and Voice Quality Features	457
<i>Shiqing Zhang</i>	

Fault Diagnosis

On-Line Diagnosis of Faulty Insulators Based on Improved ART2 Neural Network	465
<i>Hailong Zhang, Weimin Guan, and Genzhi Guan</i>	
Diagnosis Method for Gear Equipment by Sequential Fuzzy Neural Network	473
<i>Xiong Zhou, Huaqing Wang, Peng Chen, and Jingwei Song</i>	
Study of Punch Die Condition Discrimination Based on Wavelet Packet and Genetic Neural Network	483
<i>Zhigao Luo, Xiang Wang, Ju Li, Binbin Fan, and Xiaodong Guo</i>	
Data Reconstruction Based on Factor Analysis	492
<i>Zhong-Gai Zhao and Fei Liu</i>	
Synthetic Fault Diagnosis Method of Power Transformer Based on Rough Set Theory and Bayesian Network	498
<i>Yongqiang Wang, Fangcheng Lu, and Heming Li</i>	
Fuzzy Information Fusion Algorithm of Fault Diagnosis Based on Similarity Measure of Evidence	506
<i>Chenglin Wen, Yingchang Wang, and Xiaobin Xu</i>	

Other Applications and Implementations

NN-Based Near Real Time Load Prediction for Optimal Generation Control	516
<i>Dingguo Chen</i>	
A Fuzzy Neural-Network-Driven Weighting System for Electric Shovel	526
<i>Yingkui Gu, Luheng Wu, and Shuyun Tang</i>	
Neural-Network-Based Maintenance Decision Model for Diesel Engine	533
<i>Yingkui Gu, Juanjuan Liu, and Shuyun Tang</i>	

Design of Intelligent PID Controller Based on Adaptive Genetic Algorithm and Implementation of FPGA.....	542
<i>Liguo Qu, Yourui Huang, and Liuyi Ling</i>	
Fragile Watermarking Schemes for Tamperproof Web Pages	552
<i>Xiangyang Liu and Hongtao Lu</i>	
Real-Time Short-Term Traffic Flow Forecasting Based on Process Neural Network	560
<i>Shan He, Cheng Hu, Guo-jie Song, Kun-qing Xie, and Yi-zhou Sun</i>	
Fuzzy Expert System to Estimate Ignition Timing for Hydrogen Car ...	570
<i>Tien Ho and Vishy Karri</i>	
Circuitry Analog and Synchronization of Hyperchaotic Neuron Model	580
<i>Shukai Duan and Lidan Wang</i>	
A Genetic-Neural Method of Optimizing Cut-Off Grade and Grade of Crude Ore	588
<i>Yong He, Sixin Xu, Kejun Zhu, Ting Liu, and Yue Li</i>	
A SPN-Based Delay Analysis of LEO Satellite Networks	598
<i>Zhiguo Hong, Yongbin Wang, and Minyong Shi</i>	
Research on the Factors of the Urban System Influenced Post-development of the Olympics' Venues	607
<i>Changzheng Liu, Qian Ding, and Yao Sun</i>	
A Stock Portfolio Selection Method through Fuzzy Delphi.....	615
<i>Mehdi Fasanghari and Gholam Ali Montazer</i>	
A Prediction Algorithm Based on Time Series Analysis	624
<i>JianPing Qiu, Lichao Chen, and Yingjun Zhang</i>	

Applications of Neural Networks in Electronic Engineering

An Estimating Traffic Scheme Based on Adaline	632
<i>Fengjun Shang</i>	
SVM Model Based on Particle Swarm Optimization for Short-Term Load Forecasting.....	642
<i>Yongli Wang, Dongxiao Niu, and Weijun Wang</i>	
A New BSS Method of Single-Channel Mixture Signal Based on ISBF and Wavelet	650
<i>Xiefeng Cheng, Yewei Tao, Yufeng Guo, and Xuejun Zhang</i>	

A Novel Pixel-Level and Feature-Level Combined Multisensor Image Fusion Scheme	658
<i>Min Li, Gang Li, Wei Cai, and Xiao-yan Li</i>	
Combining Multi Wavelet and Multi NN for Power Systems Load Forecasting	666
<i>Zhigang Liu, Qi Wang, and Yajun Zhang</i>	
An Adaptive Algorithm Finding Multiple Roots of Polynomials	674
<i>Wei Zhu, Zhe-zhao Zeng, and Dong-mei Lin</i>	

Cellular Neural Networks and Advanced Control with Neural Networks

Robust Designs for Directed Edge Overstriking CNNs with Applications	682
<i>Yongnei Su, Lequan Min, and Xinjian Zhuo</i>	
Application of Local Activity Theory of Cellular Neural Network to the Chen's System	692
<i>Danling Wang, Lequan Min, and Yu Ji</i>	
Application of PID Controller Based on BP Neural Network Using Automatic Differentiation Method	702
<i>Weiwei Yang, Yong Zhao, Li Yan, and Xiaoqian Chen</i>	
Neuro-Identifier-Based Tracking Control of Uncertain Chaotic System	712
<i>Wen Tan, Fuchun Sun, Yaonan Wang, and Shaowu Zhou</i>	
Robust Stability of Switched Recurrent Neural Networks with Discrete and Distributed Delays under Uncertainty	720
<i>Shiping Wen, Zhigang Zeng, and Lingfa Zeng</i>	

Nature Inspired Methods of High-dimensional Discrete Data Analysis

WHFPMiner: Efficient Mining of Weighted Highly-Correlated Frequent Patterns Based on Weighted FP-Tree Approach	730
<i>Runian Geng, Xiangjun Dong, Jing Zhao, and Wenbo Xu</i>	
Towards a Categorical Matching Method to Process High-Dimensional Emergency Knowledge Structures	740
<i>Qingquan Wang, Lili Rong, and Kai Yu</i>	
Identification and Extraction of Evoked Potentials Based on Borel Spectral Measure for Less Trial Mixtures	748
<i>Daifeng Zha</i>	

A Two-Step Blind Extraction Algorithm of Underdetermined Speech Mixtures	757
<i>Ming Xiao, Fuquan Wang, and Jianping Xiong</i>	
A Semi-blind Complex ICA Algorithm for Extracting a Desired Signal Based on Kurtosis Maximization	764
<i>Jun-Yu Chen and Qiu-Hua Lin</i>	
Fast and Efficient Algorithms for Nonnegative Tucker Decomposition ...	772
<i>Anh Huy Phan and Andrzej Cichocki</i>	
Pattern Recognition and Information Processing Using Neural Networks	
Neural Network Research Progress and Applications in Forecast	783
<i>Shifei Ding, Weikuan Jia, Chunyang Su, Liwen Zhang, and Zhongzhi Shi</i>	
Adaptive Image Segmentation Using Modified Pulse Coupled Neural Network	794
<i>Wei Cai, Gang Li, Min Li, and Xiaoyan Li</i>	
Speech Emotion Recognition System Based on BP Neural Network in Matlab Environment	801
<i>Guobao Zhang, Qinghua Song, and Shumin Fei</i>	
Broken Rotor Bars Fault Detection in Induction Motors Using Park's Vector Modulus and FWNN Approach	809
<i>Qianjin Guo, Xiaoli Li, Haibin Yu, Wei Hu, and Jingtao Hu</i>	
Coal and Gas Outburst Prediction Combining a Neural Network with the Dempster-Shafter Evidence	822
<i>Yanzi Miao, Jianwei Zhang, Houxiang Zhang, Xiaoping Ma, and Zhongxiang Zhao</i>	
Using the Tandem Approach for AF Classification in an AVSR System	830
<i>Tian Gan, Wolfgang Menzel, and Jianwei Zhang</i>	
Author Index	841