## ICCI 2006 Advanced Program

**Monday, July 17, 2006**

**8:00am – 9:00am**

**Registration**

**9:00am – 9:15am**

**Welcome and Opening Plenary**

**9:15am – 10:15am**

**Session A1: Cognitive Models**

**Chair:** Zhongzhi Shi

**A1-1** A Novel Plausible Model for Visual Perception  
Zhiwei Shi, Zhongzhi Shi, and Hong Hu

**A1-2** Logical Modeling of Leslie’s Theory of Mind  
Lee Flax

**A1-3** Concurrent Negotiations for Agent-Based Grid Computing  
Xiong Li, Yajun Wu, Kai Wang, and Zongchung Xu

**A1-4** Improving the Memorization Process by TAPNs: A First Approach to Parameters Estimation  
Fernando L. Pelayo, Maria L. Pelayo, and Elena Nieto

**A1-5** A Method of Adaptive Neuron Model (AUILS) and its Application  
Jun Zhai, Xiaojia Yang, and Yan Chen

**Session B1: Pattern and Emotion Recognition**

**Chair:** Witold Kinsner

**B1-1** Speech Emotion Recognition Based on Rough Set and SVM  
Jian Zhou, Guoyin Wang, Yong Yang, and Peijun Chen

**B1-2** A New Approach Dedicated to Hand Gesture Recognition  
Nguyen Dang Binh and Toshiaki Ejima

**B1-3** The Application of Speech/Music Automatic Discrimination Based on Gray Correlation Analysis  
Gong Chen and Xiongyei Zhang

**B1-4** Emotion Recognition System in Images Based on Fuzzy Neural Network and HMM  
Yimo Guo and Huanping Gao

**B1-5** Target Segmentation in Complex Environment using Fractal Features  
Ding Su, Qiheng Zhang, and Shenghua Xie

**B1-6** A Filter Approach to Feature Selection Based on Mutual Information  
Jinjie Huang, Yunze Cai, and Xiaoming Xu

**12:00pm – 2:00pm**

**Lunch**

**2:00pm – 2:45pm**

**Session A2: CI Foundations of Software Engineering**

**Chair:** Yingxu Wang

**A2-1** On the Big-R Notation for Describing Iterative and Recursive Behaviors  
Yingxu Wang

**A2-2** Separating Design from Implementations: Role-Based Software Development  
Haibin Zhu

**Session B2: Autonomic Agents**

**Chair:** Franck Barbier

**B2-1** MDE-based Design and Implementation of Autonomic Software Components  
Franck Barbier

**B2-2** Agent-Based Integration Platform on Grid Infrastructure  
Jiewen Luo and Zhongzhi Shi

**2:45pm – 3:00pm**

**Coffee Break**

**3:00pm – 4:15pm**

**Session A2: CI Foundations of Software Engineering**

**Chair:** Witold Kinsner

**A2-3** Separating Design from Implementations: Role-Based Software Development  
Haibin Zhu

**A2-4** On the Big-R Notation for Describing Iterative and Recursive Behaviors  
Yingxu Wang

**Session C1: Computational Intelligence**

**Chair:** Yixin Zhong

**C1-1** A Cognitive Approach to Artificial Intelligence Research  
Yixin Zhong

**C1-2** The Application of the Genetic Algorithm-Ant Algorithm in the Geometric Constraint Satisfaction Guidelines  
Chunhong Cao, Bin Zhang, Limin Wang, and Wenhui Li

**C1-3** An Approach to Network Misuse Detection Based on Extension Matrix and Genetic Algorithm  
Zhixian Chen and Shanyi Zhang

**C1-4** GA-Based Speaking Mouth Correlative Speech Feature Abstraction  
Xibin Jia, Baocai Yin, Yanfeng Sun, and Xianping Lin

**C1-5** Reducing Cognitive Overload by Meta-Learning Assisted Algorithm Selection  
Lisa Fan and Miusiao Lei

**C1-6** A Hybrid Differential Evolution Algorithm for Solving Nonlinear Bilevel Programming with Linear Constraints  
Xiaobo Zhu, Qian Yu, and Xianjia Wang

**4:15pm – 5:15pm**

**SL1** A Cognitive Approach to NI and AI Research  
**Chair:** Yingxu Wang, BUPT, China

**2:45pm – 3:00pm**

**Coffee Break**

**3:00pm – 4:15pm**

**Session A2: CI Foundations of Software Engineering**

**Chair:** Yingxu Wang

**A2-3** Separating Design from Implementations: Role-Based Software Development  
Haibin Zhu

**A2-4** On the Big-R Notation for Describing Iterative and Recursive Behaviors  
Yingxu Wang

**Session B2: Autonomic Agents**

**Chair:** Franck Barbier

**B2-1** MDE-based Design and Implementation of Autonomic Software Components  
Franck Barbier

**B2-2** Agent-Based Integration Platform on Grid Infrastructure  
Jiewen Luo and Zhongzhi Shi

**Session C2: BIOSIGNAL PROCESSING**

**Chair:** Witold Kinsner

**C2-1** A Relative Fractal Dimension Spectrum as a Complexity Measure  
Witold Kinsner and R. Dansereau

**C2-2** Using Bilinear Transformations to Estimate the Ratios of Accommodation & Vergence Responses of Binocular Vision  
Matthew He and Baichuan Jiang
Tuesday, July 18, 2006

9:10am – 10:10am
Session B3: Knowledge Manipulation
Chair: Zhongzhi Shi
B3-1 Hierarchical Knowledge Representation to Approximate Functions
Luis Fernando de Mingo, Fernando Arroyo, and Juan Castellanos

B3-2 A New Geometric Approach to the Complexity of Model Selection
Zhang Lv, Siwei Luo, Yunhai Liu, and Yu Zheng

B3-3 Simulation Modeling and Optimization for Equipment Scheduling in Container Terminals
Su Wang and Bo Meng

B3-4 Default Description Logics with Reversing Inference Rules
Yu Sun and Yuefei Sui

B3-5 A Novel Fuzzy Neural Network for Pattern Recognition
Yibiao Zhao, Song Wang, Shun Zhang, Jian Pu, and Rui Fang

10:10am – 10:30am
Coffee Break

10:30am – 12:00am
Session C3: Rough Sets and Problem Solving
Chair: Yiyu Yao
C3-1 Studies on Fuzzy Information Measures
Shifei Ding, Zhongzhi Shi, and Fengxiang Jin

C3-2 Rough Set Method Based on Multi-Granulations
Y. H. Qian and J. Y. Liang

C3-3 An Improved Discernibility Matrix for Computing all Reducts of an Inconsistent Decision Table
Dongyi Ye and Zhaoqiong Chen

C3-4 Research in Quotient Space Theory Based on Structure
Liquan Zhao and Ling Zhang

C3-5 A Rough Set Describe Method for Real Function Continuous Theorem
Yongquan Zhou, Yindong, Yang, and Licheng Jiao

Session A3: Cognitive Complexity of Software
Chair: Lee Flax
A3-1 Cognitive Complexity of Software and Its Measurement
Yingxu Wang

A3-2 Adopting the Cognitive Complexity Measure for Business Process Models
Volker Gruhn and Ralf Laue

A3-3 Modified Set of Weyuker’s Properties
Sanjay Misra

A3-4 Design of an Integrated Hyper Specification Documentation Tool
Jian Huang and Yingxu Wang

A3-5 Cognitive Software Development Process and Associated Metrics – A Framework
Dharmender Singh Kushwaha, and A.K.Misra

10:10am – 10:30am
Coffee Break

10:30am – 12:00am
Session A4: Descriptive Mathematics for CI
Chair: Yingxu Wang
A4-1 On Concept Algebra and Knowledge Representations
Yingxu Wang

A4-2 On Abstract Systems and System Algebra
Yingxu Wang

10:30am – 12:00am
Session B4: Visual Information Processing
Chair: Yixin Zhong
B4-1 Geometric Structure Based Image Clustering and Image Matching
Sulan Zhang, Chunjqi Shi, Zhiyong Zhang, and Zhongzhi Shi

B4-2 A Novel Approach of Rectangular Shape Object Detection in Color Images Based on an MRF Model
Yangxing Liu, Takeshi Ikenaga, and
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>A4-3</td>
<td>Testing Entities in a Parallel Cognitive Language</td>
<td>Satoshi Goto</td>
</tr>
<tr>
<td></td>
<td>Alberto de la Encina, Mercedes Hidalgo-Herrero, Pablo Rabanal, Ismael Rodriguez, and Fernando Rubio</td>
<td>Mehdi Najjar, Philippe Fournier-Viger, Jean-François Lebeau, and André Mayers</td>
</tr>
<tr>
<td>A4-4</td>
<td>Structures of Semantic Networks: Similarities between Semantic Networks and Brain Networks</td>
<td>Ping Chen, Wei Ding, and Chengmin Ding</td>
</tr>
<tr>
<td></td>
<td>Lu Tang, Yongguang Zhang, and Xue Fu</td>
<td>Cungen Cao, Yuefei Sai, and Yu Sun</td>
</tr>
<tr>
<td>A4-5</td>
<td>Transforming RTPA Mathematical Models of System Behaviors into C++</td>
<td>Logical Connections of Statements in Ontologies</td>
</tr>
<tr>
<td></td>
<td>Xinning Tan and Yingxu Wang</td>
<td>Cungen Cao, Yuefei Sai, and Yu Sun</td>
</tr>
<tr>
<td>A4-6</td>
<td>Formal Specification and Representation of Design Patterns using RTPA</td>
<td>Using Set Operations to Deal with the Frame Problem</td>
</tr>
<tr>
<td></td>
<td>Jian Huang and Yingxu Wang</td>
<td>Jixin Ma and Brian Knight</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A Computational Model of Computer Worms based on Persistent Turing Machines</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Jingbo Hao, Jianping Yin, and Boyun Zhang</td>
</tr>
</tbody>
</table>

**SL2 On Intelligence Science and Recent Progresses**

Prof. Zhongzhi Shi, ICT, CAS, China

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>A5-1</td>
<td>User-Centered Interactive Data Mining</td>
<td>User-Centered Interactive Data Mining</td>
</tr>
<tr>
<td></td>
<td>Yan Zhao, Yaohua Chen, and Yiyu Yao</td>
<td>User-Centered Interactive Data Mining</td>
</tr>
<tr>
<td>A5-2</td>
<td>AB Distance Based Histogram Clustering for Mining Multi-Channel EEG Data Using Wavesim Transform</td>
<td>AB Distance Based Histogram Clustering for Mining Multi-Channel EEG Data Using Wavesim Transform</td>
</tr>
<tr>
<td></td>
<td>R. Pradeep Kumar and P. Nagabhushan</td>
<td>AB Distance Based Histogram Clustering for Mining Multi-Channel EEG Data Using Wavesim Transform</td>
</tr>
<tr>
<td>A5-3</td>
<td>An Algorithm Research for Distributed Association Rules Mining with Constraints Based on Sampling</td>
<td>An Algorithm Research for Distributed Association Rules Mining with Constraints Based on Sampling</td>
</tr>
<tr>
<td></td>
<td>Hong Li, Songqiao Chen, Jianfeng Du, Lijun Yi, and Wei Xiao</td>
<td>An Algorithm Research for Distributed Association Rules Mining with Constraints Based on Sampling</td>
</tr>
<tr>
<td>A5-4</td>
<td>Analysis of Thai Sentences with a Serial Verb Using a Semantic Lexicon</td>
<td>Analysis of Thai Sentences with a Serial Verb Using a Semantic Lexicon</td>
</tr>
<tr>
<td></td>
<td>Jutapuck Pugsee, Martha W. Evens, and Wanchai Rivepiboon</td>
<td>Analysis of Thai Sentences with a Serial Verb Using a Semantic Lexicon</td>
</tr>
<tr>
<td>A5-5</td>
<td>Designing Multiagent-Based Education Systems for Navigation Training</td>
<td>Designing Multiagent-Based Education Systems for Navigation Training</td>
</tr>
<tr>
<td></td>
<td>Chunsheung Yang, Hong Lin, and Fuhua Oscar Lin</td>
<td>Designing Multiagent-Based Education Systems for Navigation Training</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>B4-3</td>
<td>Neural Networks Implementation of the Visual Information Processing for an Intelligent Aerial Vehicle</td>
<td>Neural Networks Implementation of the Visual Information Processing for an Intelligent Aerial Vehicle</td>
</tr>
<tr>
<td></td>
<td>B. Gao and I. S. Han</td>
<td>B. Gao and I. S. Han</td>
</tr>
<tr>
<td>B4-4</td>
<td>Geometric Primitives Detection in Aerial Image</td>
<td>Geometric Primitives Detection in Aerial Image</td>
</tr>
<tr>
<td></td>
<td>Jing Wang, Satoshi Goto, and Kazuo Kuniida</td>
<td>Jing Wang, Satoshi Goto, and Kazuo Kuniida</td>
</tr>
<tr>
<td>B4-5</td>
<td>Volumetric Part Based 3D Object Classification</td>
<td>Volumetric Part Based 3D Object Classification</td>
</tr>
<tr>
<td></td>
<td>Weizhi Xing, Weibin Liu, and Baozong Yuan</td>
<td>Weizhi Xing, Weibin Liu, and Baozong Yuan</td>
</tr>
<tr>
<td>B4-6</td>
<td>Wavelet Multiscale Products Based Genetic Fuzzy Clustering for Image Edge Detection Analysis</td>
<td>Wavelet Multiscale Products Based Genetic Fuzzy Clustering for Image Edge Detection Analysis</td>
</tr>
<tr>
<td></td>
<td>Yishu Zhai and Xiaoming Liu</td>
<td>Yishu Zhai and Xiaoming Liu</td>
</tr>
</tbody>
</table>

**Session B5: Neural Networks**

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>B5-1</td>
<td>Measurement of Merger and Acquisition Performance Based on Artificial Neural Network</td>
<td>Measurement of Merger and Acquisition Performance Based on Artificial Neural Network</td>
</tr>
<tr>
<td></td>
<td>Shi An, Yuhai He, Zehui Zhao, and Jian Sun</td>
<td>Measurement of Merger and Acquisition Performance Based on Artificial Neural Network</td>
</tr>
<tr>
<td>B5-2</td>
<td>Context Dependent Controller by Overlapped Neural Networks for Performance Metrics Revision</td>
<td>Context Dependent Controller by Overlapped Neural Networks for Performance Metrics Revision</td>
</tr>
<tr>
<td></td>
<td>Atif Mohamed and Ruizhong Wei</td>
<td>Context Dependent Controller by Overlapped Neural Networks for Performance Metrics Revision</td>
</tr>
<tr>
<td>B5-3</td>
<td>Automated Test Oracle Based on Neural Networks</td>
<td>Automated Test Oracle Based on Neural Networks</td>
</tr>
<tr>
<td></td>
<td>Mao Ye, Boqin Feng, Li Zhu, and Yao Lin</td>
<td>Automated Test Oracle Based on Neural Networks</td>
</tr>
<tr>
<td>B5-4</td>
<td>Cross-Layer Processing Methodology of Wireless Sensor Networks</td>
<td>Cross-Layer Processing Methodology of Wireless Sensor Networks</td>
</tr>
<tr>
<td></td>
<td>Junzhao Sun and Jaakko Sauvola</td>
<td>Cross-Layer Processing Methodology of Wireless Sensor Networks</td>
</tr>
<tr>
<td>B5-5</td>
<td>A Posterior-Based Method for Markov Logic Networks Parameters Learning</td>
<td>A Posterior-Based Method for Markov Logic Networks Parameters Learning</td>
</tr>
<tr>
<td></td>
<td>Shuyang Sun, Jianzhong Chen, Dayou Liu, and Chengmin Sun</td>
<td>A Posterior-Based Method for Markov Logic Networks Parameters Learning</td>
</tr>
</tbody>
</table>

**Session C5: Pattern Classification**

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>C5-1</td>
<td>The Research on an Adaptive K-Nearest Neighbors Classifier</td>
<td>The Research on an Adaptive K-Nearest Neighbors Classifier</td>
</tr>
<tr>
<td></td>
<td>Xiaopeng Yu and Xiaogao Yu</td>
<td>Xiaopeng Yu and Xiaogao Yu</td>
</tr>
<tr>
<td>C5-2</td>
<td>A Fast Matching Algorithm Based on Adaptive Classification Scheme</td>
<td>A Fast Matching Algorithm Based on Adaptive Classification Scheme</td>
</tr>
<tr>
<td></td>
<td>Ce Fan and Peihua Liu</td>
<td>A Fast Matching Algorithm Based on Adaptive Classification Scheme</td>
</tr>
<tr>
<td>C5-3</td>
<td>A Novel Stroke Extraction Model for Chinese Characters Based on Steerable Filters</td>
<td>A Novel Stroke Extraction Model for Chinese Characters Based on Steerable Filters</td>
</tr>
<tr>
<td></td>
<td>Rui Chen, Yan Tang, and Yuhui Qiu</td>
<td>A Novel Stroke Extraction Model for Chinese Characters Based on Steerable Filters</td>
</tr>
<tr>
<td>C5-4</td>
<td>Improved Algorithm for Continuous Moving Objects Queries</td>
<td>Improved Algorithm for Continuous Moving Objects Queries</td>
</tr>
<tr>
<td></td>
<td>Shengsheng Wang, Xinying Wang, Dayou Liu, and Qiangyuan Yu</td>
<td>Improved Algorithm for Continuous Moving Objects Queries</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>10:10am – 10:30am</td>
<td>Learn to Coordinate with Generic Non-Stationary Opponents&lt;br&gt;Kaifu Zhang</td>
<td>Performance Comparison of MPI-Based Parallel Multiple Sequence Alignment Algorithm using Single and Multiple Guide Trees&lt;br&gt;Siamak Rezaei, Md. Maruf Monwar, and Joanne Bai</td>
</tr>
<tr>
<td>10:30am – 12:00am</td>
<td>Using Feature Selection Filtering Methods for Binding Site Predictions&lt;br&gt;Yi Sun, Mark Robinson, Rod Adams, Rene te Boekhorst, Alistair G. Rast, and Neil Davesy</td>
<td>A Novel Automatic Text Summarization Study Based on Term Co-Occurrence&lt;br&gt;Huantong Geng, Peng Zhao, Enhong Chen, and Qingsheng Cai</td>
</tr>
<tr>
<td>12:00pm – 2:00pm</td>
<td>Named Entity Recognition using Hybrid Machine Learning Approach&lt;br&gt;Raymond Chiong and Wang Wei</td>
<td>Research on Models of Concept and Relation between Concepts Adapted for Semantic Disambiguation of Natural Language&lt;br&gt;Ke Zhao, Gangwei Hu, Wei Xu, and Yatata Li</td>
</tr>
<tr>
<td>2:00pm – 2:45pm</td>
<td>Hierarchical Reinforcement Learning with OMQ&lt;br&gt;Jing Shen, Haibo Liu, and Guochang Gu</td>
<td>JIA Automaton: Expediency and E-Optimality Properties&lt;br&gt;R. Iraji, M. T. Maszuri-Shalmani, A. H. Jamalali, and H. Beigy</td>
</tr>
<tr>
<td>2:45pm – 3:00pm</td>
<td>An Improved PSO-Based Fuzzy Ensemble Classifier for Transformer Fault Diagnosis&lt;br&gt;Hongsheng Su and Feng Zhao</td>
<td>Research on the Reconstruction Technology of Diagnosis System Based on Immune Mechanism&lt;br&gt;Wei Li, Li Zhang, Darong Huang, and Ying Zhang</td>
</tr>
</tbody>
</table>
Poster Session A: Artificial Intelligence

PA1 Using Accelerator Feedback to Improve Performance of Integral-Controller Particle Swarm Optimization
Zhihua Cui, Jianchao Zeng, and Guoji Sun

PA2 Intelligent Robot Motion using Fuzzy Logic-Based CTP and Artificial Neural Networks
Mohsen Davoudi and Mehdi Davoudi

PA3 A New Mutation Operator Based on the T Probability Distribution in Evolutionary Programming
Wenyin Gong, Zhihua Cai, Xunwei Lu, and Siewei Jiang

PA4 Communication Adapter Design of Multi-Agent in WEBGIS
Guangru Li, Jingfeng Hu, and Xian Wu

PA5 The Inverse Problem of Support Vector Machines Solved by a New Intelligence Algorithm
Jingmin Wang and Guoqiao Ren

PA6 Commitment and Obligation Based on Utility in Agent Organization
Zhengguang Wang, Xiaohui Liang, and Qingping Zhao

PA7 Matrix Computation for Concept Lattices
Qiang Wu, Zongtian Liu, and Baisheng Shi

PA8 Extension Rule in First Order Logic
Xia Wu, Jigui Sun, and Kun Hou

PA9 Convergence Analysis of Mind Evolutionary Algorithm based on Functional Analysis
Keming Xie, Yuxiu Qu, and Gang Xie

PA10 An Approach to Self-Adaptive Active Control Mechanism to Support E-Government Based on Multi-Agent System
Mingjun Xin, Chao Wu, and Weihsu Li

PA11 Activation Function of Wavelet Chaotic Neural Networks
Yaoqun Xu, Ming Sun, and Mengshu Guo

PA12 Rough Set Theory-Based Multi-Class Decision Attribute Reduction Algorithm and Its Application
Yitian Xu, Laisheng Wang, and Yanping Shen

PA13 The Improved Ant Colony Algorithm Based on Immunity System Genetic Algorithm and Application
Caqing Zhang and Yanchao Lu

PA14 Decomposition and Hierarchical Process for Fuzzy Cognitive Maps of Complex Systems
Guiyun Zhang, Bingru Yang, and Weijuan Zhang

PA15 Minimal Cognitive Model for Deliberate Agents
Hong Zhang and Huacan He

PA16 Research on Communication Mechanism Among Cooperating Multi-Intrusion Detection Agents
Wei Zhang, Shaohua Teng, Xufen Fu, and Lin Wang

PA17 Temporal Rough Neural Network
Tao Zhou, Fangan Deng, Huiling Lu, Wenbin Zhao, and Fuzeng Yang

Poster Session B: Computing Technologies

PB1 Evolved Patterns of Connectivity in Associative Memory Models
Rod Adams, Lee Calcraft, and Neil Davey

BPB2 Introduction to the World of Quantum Computers
Sina Jafarpour

BPB3 Programming Task Demands
Kim Man Lui and Keith C.C. Chan

BPB4 The Construction Approach of Regular Expressions from Finite Automata Including Multi-Node Loops
Jiming Ma, Haibin Zhu, and Wenqian Shang

BPB5 A New Iterative Fir Filter for Image and Video Restoration
Nitin R. Prasad, Partha P. Mondal, and Rajan Kanhrodan

BPB6 Quantum Algorithms and Hard Problems
Vidyu Raj C., Phaneendra H. D., and Shivakumar M.S.

BPB7 Combining Discrete Orthogonal Moments and DHMMS for Off-Line Handwritten Chinese Character Recognition
Xuanwei Wang, Yang Yang, and Kang Huang

BPB8 The Research of an Intelligent Agent to Process OLAP Service over Statistical Data Warehouse
Wenchuan Yang, Peng Wang, Chunyang Gao, Yanyang Fan, and Huahua Luan

BPB9 Blindly Selecting Method of Training Samples Based Data’s Intrinsic Character for Machine Learning
Wencang Zhao

PB10 An Incremental Learning Algorithm Based on Support Vector Domain Classifier
Yinggang Zhao and Quiming He

PB11 HNN-Based Multiuser Detection for Uplink CDMA Communication System Under Multipath Fading Channels
Ziwei Zheng, Yongsheng He, Fan Zhang, and Jie Pan

PB12 Dynamic Risk Measures for Discrete-Time Process
Shi An, Jian Sun, and Yan Wang

PB13 Real-Time Hand Gesture Recognition using Pseudo 3-D Hidden Markov Model
Nguyen Dang Binh and Toshiaki Ejima

PB14 Knowledge Based Data Pre-Define Storage of Collaborative Engineering Design System
Ming Chen

PB15 An Implementation for Distributed Back Propagation using CORBA Architecture
Affective Computing Model Based on Rough Fuzzy Sets
Qingzhang Chen, Yungang Lai, and Jianghong Han

PB17
A Novel Sorting Method of Radar Signals Based on Support Vector Clustering and Delaminating Coupling
Qiang Guo, Xingzhou Zhang, and Zheng Li

PB18
Fast Approximate Search in Strings with Rearrangements
Evgeny Ivanko

Poster Session C: Information Technologies

PC1
Face Recognition Based on Geodesic Preserving Projection Algorithm with 3D Morphable Model
Xiaoming Bai, Baocai Yin, Qin Shi, and Yanfeng Sun

PC2
UBM Based Speaker Selection and Model Re-Estimation for Speaker Adaptation
Jian Wang, Jun Guo, Gang Liu, and Jianjun Lei

PC3
Risk Management in International Mutual Insurance
Yanting Wang and Deli Yang

PC4
A Heuristic Method for Logistics Supply Chain Coordination and Risk Control
Xiaoming Bai, Baocai Yin, Qin Shi, and Yanfeng Sun

PC5
Improving the Performance of Iris Recognition System using Eyelids and Eyelashes Detection and Iris Image Enhancement
Guangzhu Xu, Zai Feng, Zhang, and Yide Ma

PC6
Fuzzy Comprehensive Evaluation Model based on Rough Set Theory
Yitian Xu and Laisheng Wang

PC7
An Evaluative Algorithm for the Data Mining in Population Data Warehouse
Wenchuan Yang, Peng Wang, Chanyang Guo, Yan Yang Fan, and Huahua Luan

PC8
Using Wavelet Support Vector Machines to Generate Expected Outputs
Yong Chen and Yuehui Chen

PC9
Research on Case Generation From Group Decision Making Experience for Evaluation
Xingqiao Yu and Bo Meng

PC10
Real-Time Operational Strategies for Truckload Pickup and Delivery Problems
Changfeng Zhou, Yan Liu, Yuejin Tan, and Liangcai Liao

PC11
Traffic Image Classification Method Based on Fractal Dimension
Wenjun Cao, Zhongke Shi, and Jinhua Feng

PC12
Task Matching and Scheduling by using Self-Adjusted Genetic Algorithms
Changwu Zhu, Shuangming Dai, and Zhi Liu

PC13
The 'Information Bearing Capability' (IBC) of a Conceptual Data Schema and its 'Information Quantity' Aspect
Junkang Feng and Qinsheng Zhuang

PC14
Grey Relational Evaluation of Electronic Equipment Effectiveness Based on Ideal Reference Sequence
Hongfa Ke, Yongguang Chen, and Guoyu Wang

PC15
A New Approach for Firearm Identification with Hierarchical Neural Networks Based on Cartridge Case
Dongguang Li

PC16
The Application of the System Parameter Fusion Principle to Assessing University Electronic Library Performance
Ying Li, Hong Pu, and Qiangguo Pu

PC17
Parsing Chinese Questions Based on Conceptual Network
He Ren, Junfang Zeng, and Yiping Yang

PC18
The Application of Wavelet Transform to Breast Near-Infrared Images
Feifei Shang and Kaiyang Li

PC19
Research on SVD-Based Template-Updating Strategy
Guogang Wang, Zhijia Zhang, and Ying Wang

PC20
Improved Algorithm for Adaboost with SVM Base Classifiers
Xiaodan Wang, Chongming Wu, Chunyaing Zheng, and Wei Wang

PC21
Imune Algorithm for Supervised Clustering
Lifang Xu, Hongwei Mo, and Kejun Wang

PC22
Improved Algorithm for Adaboost with SVM Base Classifiers
Xiaodan Wang, Chongming Wu, Chunyaing Zheng, and Wei Wang

PC23
Imune Algorithm for Supervised Clustering
Lifang Xu, Hongwei Mo, and Kejun Wang