

CIS'05 Final Program

Time	Thursday, 15th December				
8:30a.m.– 9:00p.m.	On-site Registration				
	Friday, 16th December				
8:30a.m.–5:00p.m.	On-site Registration				
8:30a.m.-9:20a.m.	Opening Address (Room A)				
9:20a.m.-10:20a.m.	Keynote 1 (Room A)				
10:20a.m.-10:30a.m.	<i>Tea/Coffee</i>				
10:30a.m.-12:15p.m.	Fri-A: Learning Systems 1756, 1192, 690, 1555, 1007, 1627, 1640	Fri-B: Pattern Recognition 434, 1308, 2128, 1946, 2161, 1440, 400	Fri-C: Intrusion Detection 1383, 1241, 1744, 159, 2157, 307, 1354	Fri-D: Cryptographic Protoc. 1757, 234, 650, 1990, 123, 1609, 869	Fri-E: Bioinformatics Computing 1175, 1988, 674, 1237, 2083, 171, 1326
12:15p.m.-13:30p.m.	<i>Lunch</i>				
13:30p.m.-15:15p.m.	Fri-A: Learning Systems 1608, 962, 1188, 1317, 1021, 1979, 279	Fri-B: Image/Video Proc. 1313, 1404, 1615, 1463, 826, 1402, 1996	Fri-C: Intrusion Detection 1956, 1989, 209, 1967, 481, 1900, 1235	Fri-D: Cryptography & Coding 1714, 285, 1544, 73, 1739, 2160, 152	Fri-E: Applications (II) 1841, 75, 2148, 2067, 1820, 1081, 312
15:15p.m.-15:35p.m.	<i>Tea/Coffee</i>				
15:35p.m.-17:45p.m.	Fri-A: Evolutionary Comp. 992, 1311, 1322, 660, 1845, 828, 2121, 838	Fri-B: Pattern Recognition 1731, 477, 714, 800, 945, 1059, 1070, 1260	Fri-C: Security Architecture 863, 844, 1549, 873, 1195, 1240, 907	Fri-D: Web&Net Applications 220, 953, 1108, 1159, 1168, 2102, 757, 490	Fri-E: Bioinformatics Computing 1873, 2162, 612, 671, 760, 933, 1109, 661
18:00p.m.-20:00p.m.	Welcome Reception				
	Saturday, 17th December				
8:30a.m.–5:00p.m.	On-site Registration				
8:30a.m.-9:30a.m.	Keynote 2 (Room A)				
9:30a.m.-10:30a.m.	Sat-A: Learning Systems 1782, 366, 1112, 2118	Sat-B: Info Retrieval 1592, 648, 1390, 667, 352	Sat-C: Security Architecture 1187, 821, 381, 2093,	Sat-D: Cryptographic Protoc. 669, 1082, 831, 832	Sat-E: Applications (I) 701, 2133, 2105, 1976
10:30a.m.-10:50a.m.	<i>Tea/Coffee</i>				
10:50a.m.-12:05p.m.	Sat-A: Evolutionary Comp. 629, 2150, 685, 694, 698	Sat-B: Info Retrieval 1905, 941, 1540, 2059, 1834	Sat-C: Security Management 999, 1014, 1552, 1338, 1846	Sat-D: Web&Net Applications 850, 1047, 1162, 1257	Sat-E: Bioinformatics Computing 1076, 1107, 1848, 276
12:05p.m.-13:30p.m.	<i>Lunch</i>				
13:30p.m.-15:15p.m.	Sat-A: SVMs 1515, 153, 1129, 1137, 1208, 1516, 846	Sat-B: Image/Video Proc. 182, 91, 197, 108, 1038, 109, 480	Sat-C: Intrusion Detection 1372, 1982, 1155, 1198, 1675, 1776, 2066	Sat-D: Watermarking & Info Hiding, 103, 1929, 713, 731, 1918, 2064, 89	Sat-E: Applications (II) 1575, 113, 2098, 2149, 1412, 2052, 1099
15:15p.m.-15:35p.m.	<i>Tea/Coffee</i>				
15:35p.m.-17:45p.m.	Sat-A: SVMs 331, 1519, 896, 1221, 1178, 1233, 1259	Sat-B: Image/Video Proc. 183, 265, 358, 437, 738, 739, 2080	Sat-C: Security Architecture 724, 1087, 166, 1569, 706, 743, 1771,	Sat-D: Agents 1487, 960, 1478, 2073, 1980, 119, 132, 330	Sat-E: Applications (II) 1509, 1442, 2039, 506, 2158, 154, 242
18:00p.m.-20:00p.m.	Conference Banquet				

Time	Sunday, 18 th December				
8:30a.m.–5:00p.m.	On-site Registration				
8:30a.m.-9:30a.m.	Keynote 3 (Room A)				
9:30a.m.-10:30a.m.	Sun-A: SVMs 1328, 1467, 1655, 1788	Sun-B: Data Mining 372, 788, 1712, 983, 1699	Sun-C: Agents 357, 385, 893, 326	Sun-D: Swarm Intelligence 1190, 1269, 158, 345	Sun-E: Applications (I) 1944, 336, 1906, 940
10:30a.m.-10:50a.m.	Tea/Coffee				
10:50a.m.-12:05p.m.	Sun-A: Evolutionary Comp. 1223, 1343, 1356, 2090, 2089	Sun-B: Pattern Recognition 1719, 1738, 1766, 2062, 1770	Sun-C: Security Management 487, 547, 818, 1284, 1506	Sun-D: Cryptography & Coding 1355, 271, 301, 404, 2126	Sun-E: Bioinformatics Computing 879, 1994, 1121, 1585
12:05p.m.-13:30p.m.	Lunch				
13:30p.m.-15:15p.m.	Sun-A: Learning Systems 1474, 283, 769, 1541, 771, 468, 1611	Sun-B: Image/Video Proc. 742, 894, 993, 452, 1566, 1261, 1482	Sun-C: Security Architecture 936, 1273, 1815, 1102	Sun-D: Cryptographic Protoc. 857, 864, 892, 910, 1634, 1639, 1950	Sun-E: Applications (II) 1072, 1075, 2159, 2104, 789
15:15p.m.-15:35p.m.	Tea/Coffee				
15:35p.m.-17:45p.m.	Sun-A: Data Mining 1604, 335, 417, 647, 825, 1011, 1501, 1935	Sun-B: Image/Video Proc. 1959, 1687, 1741, 1812, 1857, 1880, 2048, 2056	Sun-C: Agents 329, 1002, 1061, 1285, 1287, 1342, 1951, 1149	Sun-D: Watermarking & Info Hiding, 313, 1865, 583, 1535, 1512, 876, 682, 1915	Sun-E: Swarm Intelligence 323, 804, 523, 711, 1522, 1785
18:00p.m.-	Free Activities				
	Monday, 19 th December				
	Free Activities				

Note:

1. Letters A, B, C, D, E represent Room A, Room B, Room C, Room D, and Room E, respectively.
2. By default overhead / LCD projectors are provided during the presentation.
3. Each delegate has 15 minutes for paper presentation.

CIS 2005 Detailed Final Program

Thursday, 15 th December	
8:30 am - 21:00 pm	Registration
Friday, 16 th December	
8:30 am - 9:20 am	Opening Ceremony Room A
9:20 am-10:20 am	Keynote Session I Room A Keynote Speaker: Prof. Kenny Paterson, University of London, UK Title: The Theory and Practice of Identity-Based Cryptography. Session Chair: Prof. Hujun Yin, The University of Manchester, UK
10:20 am-10:30 am	Tea / Coffee Break
10:30 am-12:15 pm	
Room A: Learning Systems	Session Chair: Prof. Paplinski P. Andrew <ol style="list-style-type: none"> 1. <i>Jordi Nin, Vicenç Torra</i> - Empirical Analysis of Database Privacy Using Twofold Integrals. 2. <i>Chengpo Mu, Houkuan Huang, Shengfeng Tian</i> - Intrusion Detection Alert Verification Based on Multi-level Fuzzy Comprehensive Evaluation. 3. <i>Henrik Berg, Roland Olsson</i> - Improving the Scalability of Automatic Programming. 4. <i>Woobeom Lee, Wookhyun Kim</i> -Texture Segmentation by Unsupervised Learning and Histogram Analysis Using Boundary Tracing. 5. <i>Fengzhan Tian, Shengfeng Tian, Jian Yu, Houkuan Huang</i> - An Improved Bayesian Network Learning Algorithm Based on Dependency Analysis. 6. <i>Ivan Olmos, Jesus A. Gonzalez, Mauricio Osorio</i> - Mining Common Patterns on Graphs. 7. <i>Ricardo Nanculef, Carlos Valle, Hector Allende, Claudio Moraga</i> - Moderated Innovations in Self-Poised Ensemble Learning.
Room B: Pattern Recognition	Session Chair: Prof. Bin Fang <ol style="list-style-type: none"> 1. <i>Wen-Sheng Chen, Pong C Yuen, Jian Huang, Jianhuang Lai</i> - A Novel Fisher Criterion based St-Subspace Linear Discriminant Method for Face Recognition. 2. <i>Bo Xie, Ling Chen, Gen-Cai Chen, Chun Chen</i> - EmoEars: An Emotion Recognition System for Mandarin Speech. 3. <i>Jaeseok Yun, Woontack Woo, Jeha Ryu</i> - User Identification using User's Walking Pattern over the ubiFloorII. 4. <i>Zheng Qin, Junying Chen, Yu Liu, Jiang Lu</i> - Evolving RBF Neural Networks for Pattern Classification. 5. <i>Daqi Zhan, Suqin Sun, Yiu-ming Cheung</i> - Discrimination of Patchoulis of Different Geographical Origins with Two-Dimensional IR Correlation Spectroscopy and Wavelet Transform. 6. <i>Murat Ekinici, Eyup Gedikli</i> - Gait Recognition Using View Distance Vectors. 7. <i>Haifeng Shen, Qunxia Li, Jun Guo, Gang Liu</i> - HMM Parameter Adaptation Using the Truncated First-Order VTS and EM Algorithm for Robust Speech Recognition.
Room C: Intrusion Detection	Session Chair: Prof. Xinmei Wang <ol style="list-style-type: none"> 1. <i>Ki-Won Yeom, Ji-Hyung Park</i> - An Immune System Inspired Approach of Collaborative Intrusion Detection System using Mobile

	<p>Agents in Wireless Ad hoc Networks.</p> <ol style="list-style-type: none"> 2. <i>Ping Wang, Binxing Fang, Xiaochun Yun</i> - A New User-habit Based Approach for Early Warning of Worms. 3. <i>Il-Seop Song, Youngseok Lee, Taeck-Geun Kwon</i> - A Multi-Gigabit Virus Detection Algorithm Using Ternary CAM. 4. <i>Yong Zeng, Jianfeng Ma</i> - Sampling Distance Analysis of Gigantic Data Mining for Intrusion Detection Systems. 5. <i>Saraswathi Sachidananda, Srividya Gopalan, Sridhar Varadarajan</i> - Hardware-software Hybrid Packet Processing for Intrusion Detection Systems. 6. <i>Junfeng Tian, Weidong Zhao, Ruizhong Du</i> - D-S Evidence Theory and its Data Fusion Application in Intrusion Detection. 7. <i>Hee Suk Seo, Tae Ho Cho</i> - Application of Fuzzy Logic for Distributed Intrusion Detection.
Room D: Cryptographic Protoc.	<p>Session Chair: Prof. Ashutosh Saxena</p> <ol style="list-style-type: none"> 1. <i>Seung Wook Jung, Christoph Ruland</i> - Secure Software Smartcard Resilient to Capture. 2. <i>Kewei Lv</i> - Revised Fischlin's (Blind) Signature Schemes. 3. <i>Licheng Wang, Zhenfu Cao, Xiangxue Li, Haifeng Qian</i> - Certificateless Threshold Signature Schemes. 4. <i>M. Choudary Gorantla, Ashutosh Saxena</i> - An Efficient Certificateless Signature Scheme. 5. <i>Xiaofeng Chen, Fangguo Zhang, Shengli Liu</i> - ID-based Restrictive Partially Blind Signatures. 6. <i>Seungwon Lee, Seongje Cho, Jongmoo Choi, Yookun Cho</i> - Batch Verification with DSA-Type Digital Signatures for Ubiquitous Computing. 7. <i>Zhou Sujing, Lin Dongdai</i> - On Anonymity of Group Signatures.
Room E: Bioinformatics Computing	<p>Session Chair: Prof. Vojislav Stojkovic</p> <ol style="list-style-type: none"> 1. <i>Rui Zhang, Zong-Ben Xu</i> – A Generalized Global Convergence Theory of Projection-type Neural Networks for Optimization. 2. <i>Kwang-Baek Kim, SungShin Kim</i> - Hierarchical Recognition of English Calling Card by Using Multiresolution Images and Enhanced Neural Network. 3. <i>Wenping Ma, Licheng Jiao, Maoguo Gong, Fang Liu</i> – A Novel Artificial Immune Systems Multi-objective Optimization Algorithm for 0/1 knapsack problems. 4. <i>Jong In Kwak, Sang Hyun Kim, Nam Chul Kim</i> - RD-Based Seeded Region Growing for Extraction of Breast Tumor in an Ultrasound Volume. 5. <i>Shun Bian, Wenjia Wang</i> - Improving Classification for Microarray Data Sets by Constructing Synthetic Data. 6. <i>Ping Wei, Chengxian Xu, Fengji Zhao</i> - A Method to Locate the Position of Mobile Robot Using Extended Kalman Filter. 7. <i>Hongwei Huo, Hua Ming</i> - Simulated Annealing with Injecting Star-alignment for Multiple Sequence Alignments.
12:15 pm-13:30 pm	Lunch
13:30 pm-15:15 pm	
Room A: Learning Systems	<p>Session Chair: Prof. Paplinski P. Andrew</p> <ol style="list-style-type: none"> 1. <i>Sandip Aine, Rajeev Kumar, P. P. Chakrabarti</i> - An Adaptive Framework for Solving Multiple Hard Problems Under Time Constraints. 2. <i>Jooyoung Park, Jongho Kim, Daesung Kang</i> - An RLS-Based Natural Actor-Critic Algorithm for Locomotion of a Two-Linked Robot Arm.

	<ol style="list-style-type: none"> 3. <i>Enhong Chen, Feng Wang</i> - Dynamic Clustering Using Multi-objective Evolutionary Algorithm. 4. <i>Andrew P. Paplinski, Lennart Gustafsson</i> - Multimodal FeedForward Self-Organizing Maps. 5. <i>Hua Zhong, Licheng Jiao</i> - Decision Fusion Based Unsupervised Texture Image Segmentation. 6. <i>Weon-Goo Kim, MinSeok Jang</i> - Speaker Adaptation Techniques for Speech Recognition with a Speaker-Independent Phonetic Recognizer. 7. <i>Baolin Sun, Qiu Yang, Jun Ma, Hua Chen</i> - Fuzzy QoS Controllers in Diff-Serv Scheduler using Genetic Algorithms.
Room B: Image/Video Proc.	<p>Session Chair: Prof. Kwang-Baek Kim</p> <ol style="list-style-type: none"> 1. <i>Bicheng Li, Hujun Yin</i> - Face Recognition Based on Support Vector Machine Fusion and Wavelet Transform. 2. <i>Jun Zhou, Guangda Su, Yafeng Deng, Kai Meng, Congcong Li</i> - A Dynamic Face and Fingerprint Fusion System for Identity Authentication. 3. <i>Kyu B. Doh, Jungho Ohn, Ting-C Poon</i> - Image Recognition for Security Verification using Real-time Joint Transform Correlation with Scanning Technique. 4. <i>Ying-Han Pang, Andrew Teoh Beng Jin, David Ngo Chek Ling</i> - Binarized Revocable Biometrics in Face Recognition. 5. <i>Chan Lim, Hyun-Soo Kang, Tae-Yong Kim</i> - Fast Motion Estimation Scheme for Real Time Multimedia Streaming With H.264. 6. <i>Yong Zhou, Xiaofeng Hu, Qingtai Ye</i> - A Robust Lane Detection Approach Based on MAP Estimate and Particle Swarm Optimization. 7. <i>Fuhai Li, Jinwen Ma, Dezhi Huang</i> - MFCC and SVM Based Recognition of Chinese Vowels.
Room C: Intrusion Detection	<p>Session Chair: Prof. Baoming Bai</p> <ol style="list-style-type: none"> 1. <i>Yuji Waizumi, Daisuke Kudo, Nei Kato, Yoshiaki Nemoto</i> - A New Network Anomaly Detection Technique Based on Per-flow and Per-service Statistics. 2. <i>SeongJe Cho, Hye-Young Chang, HongGeun Kim, WoongChul Choi</i> - SoIDPS: Sensor Objects-based Intrusion Detection and Prevention System and Its Implementation. 3. <i>Ming Li, Wei Zhao</i> - A Statistical Model for Detecting Abnormality in Static-Priority Scheduling Networks with Differentiated Services. 4. <i>Vidyasagar Potdar, Chen Wu, Elizabeth Chang</i> - Tamper Detection for Ubiquitous RFID-Enabled Supply Chain. 5. <i>Wei Yan</i> - Measuring the Histogram Feature Vector for Anomaly Network Traffic. 6. <i>Kyunghwan Baek, Heejun Jang, Youngjun Han, Hernsoo Hahn</i> - Efficient Small Face Detection in Surveillance Images Using Major Color Component and LDA Scheme. 7. <i>Jin Zheng, Bo Li, Bing Zhou, Wei Li</i> - Fast Motion Detection Based on Accumulative Optical Flow & Double Background Model.
Room D: Cryptography & Coding	<p>Session Chair: Prof. Xiaofeng Chen</p> <ol style="list-style-type: none"> 1. <i>Sosun Kim, Nam Su Chang, Chang Han Kim, Young-Ho Park, Jongin Lim</i> - A Fast Inversion Algorithm and Low-complexity Architecture over GF(2^m). 2. <i>Chunxiang Gu, Yuefei Zhu, Yajuan Zhang</i> - An ID-based Optimistic Fair Signature Exchange Protocol from Pairings. 3. <i>Toshihiro Ohigashi, Yoshiaki Shiraishi, Masakatu Morii</i> - FMS Attack-Resistant WEP Implementation Is Still Broken. 4. <i>Ping Dong, Xiang-Dong Shi, Jie-hui Yang</i> - Design of a New Kind of Encryption Kernel Based on RSA Algorithm.

	<ol style="list-style-type: none"> 5. <i>Yoon Cheol Lee, Hiroshi Doi</i> - On the Security of Condorcet Electronic Voting Scheme. 6. <i>Qian Yin, Yunlun Luo, Ping Guo</i> - Special Distribution of the Shortest Linear Recurring Sequences in $\mathbb{Z}/(p)$ Field. 7. <i>Jingmei Liu, Xiangguo Cheng, Xinmei Wang</i> - Cryptanalysis of a Cellular Automata Cryptosystem.
Room E: Application (II)	<p>Session Chair: Prof. Vasu S. Alagar</p> <ol style="list-style-type: none"> 1. <i>Zaiqiang Liu, Dengguo Feng</i> - Incremental Fuzzy Decision Tree-based Network Forensic System. 2. <i>Youqing Wang, Donghua Zhou</i> - Robust Reliable Control for a Class of Fuzzy Dynamic Systems with Time-varying Delay. 3. <i>Hong Yan Yi, B. de la Iglesia, V. J. Rayward-Smith</i> - Using Concept Taxonomies for Effective Tree Induction. 4. <i>Jingtao Li, Yinan Jing, Peng Fu, Gendu Zhang, Yongqiang Chen</i> - A Similarity-Based Recommendation Filtering Algorithm for Establishing Reputation-Based Trust in Peer-to-Peer Electronic Communities. 5. <i>Kyu-Sik Park, Youn-Ho Cho, Sang-Hun Oh</i> - Automatic Classification of Korean Traditional Music Using Robust Multi-feature Clustering. 6. <i>Changjie Wang, Ho-fung Leung</i> - A Private and Efficient Mobile Payment Protocol. 7. <i>Tianjie Cao, Dongdai Lin, Rui Xue</i> - Universal Designated-Verifier Proxy Blind Signatures for E-Commerce.
15:15 pm -15:35 pm	Tea / Coffee Break
15:35 pm -17:45 pm	
Room A: Evolutionary Computation	<p>Session Chair: Prof. Nareli Cruz-Cortes</p> <ol style="list-style-type: none"> 1. <i>Jung-Shik Kong, Bo-Hee Lee, Jin-Geol Kim</i> - Design of a Switching PID Controller Using Advanced Genetic Algorithm for a Nonlinear System. 2. <i>Yuping Wang, Dalian Liu, Yiu-Ming Cheung</i> - Preference Bi-objective Evolutionary Algorithm for Constrained Optimization. 3. <i>Mahamed G. H. Omran, Ayed Salman, Andries P Engelbrecht</i> - Self-Adaptive Differential Evolution. 4. <i>Ziyi Chen, Lishan Kang</i> - Steady-State Evolutionary Algorithm for Multimodal Function Global Optimization. 5. <i>Nareli Cruz-Cortes, Francisco Rodriguez-Henriquez, Raul Juarez-Morales, Carlo A. Coello Coello</i> - Finding Optimal Addition Chains Using a Genetic Algorithm Approach. 6. <i>Jin Wang, Je Kyo Jung, Yong-min Lee, Chong Ho Lee</i> - Using Reconfigurable Architecture-Based Intrinsic Incremental Evolution to Evolve a Character Classification System. 7. <i>Antoine B. Bagula, Hong F. Wang</i> - On the Relevance of Using Gene Expression Programming in Destination-based Traffic Engineering. 8. <i>Jianli Ding, Wansheng Tang, Yufu Ning</i> - Model and Convergence for the Combination of Genetic Algorithm and Ant Algorithm.
Room B: Pattern Recognition	<p>Session Chair: Prof. Bin Fang</p> <ol style="list-style-type: none"> 1. <i>Cheol-Ki Kim, Sang-Gul Lee, Kwang-Baek Kim</i> - Model Type Recognition Using De-interlacing and Block Code Generation. 2. <i>Anton Bougaev, Aleksey Urmanov</i> - R-functions Based Classification for Abnormal Software Process Detection. 3. <i>Bing Han, Xin-bo Gao, Hong-bing Ji</i> - A Unified Framework for Shot Boundary Detection. 4. <i>SiBao Chen, Min Kong, Bin Luo</i> - Image Recognition with LPP Mixtures.

	<ol style="list-style-type: none"> 5. <i>Xiuqin Chu, Fangming Hu, Yushan Li</i> - Line-based Camera Calibration. 6. <i>Wei Fang, Sen Liu, Huamin Feng, Yong Fang</i> - Shot Boundary Detection Based on SVM and TMRA. 7. <i>Amit Dhurandhar, Kartik Shankarnarayanan, Rakesh Jawale</i> - Robust Pattern Recognition Scheme for Devanagari Script. 8. <i>Sulin Pang</i> - Credit Evaluation Model and Applications Based on Probabilistic Neural Network.
Room C: Security Architecture	<p>Session Chair: Prof. Mengquan Lin</p> <ol style="list-style-type: none"> 1. <i>Syed Naqvi, Michel Riguidel</i> - Dynamic Access Control for Pervasive Grid Applications. 2. <i>Byungil Lee, Howon Kim</i> - Enhanced Security and Privacy Mechanism of RFID Service for Pervasive Mobile Device. 3. <i>Yi Shi, Xin-yu Yang</i> - A Novel Architecture for Detecting and Defending against Flooding-based DDoS Attacks. 4. <i>Dayin Wang, Dongdai Lin, Wenling Wu</i> - A Variant of Poly1305 MAC and Its Security Proof. 5. <i>Jianjun Shen, Sihan Qing, Qingni Shen, Liping Li</i> - Covert Channel Identification Founded on Information Flow Analysis. 6. <i>Andre Arnes, Karin Sallhammar, Kjetil Haslum, Tønnes Brekne, Marie Elisabeth Gaup Moe, Svein Johan Knapskog</i> - Real-time Risk Assessment with Network Sensors and Intrusion Detection Systems. 7. <i>Xiaofeng Rong, Xiaojuan Gao, Ruidan Su, Lihua Zhou</i> - Design and Implementation of a Parallel Crypto Server.
Room D: Web & Net Application	<p>Session Chair: Prof. Hui Li and Prof. Baobao Wang</p> <ol style="list-style-type: none"> 1. <i>Won-Hyuck Choi, Doo-Hyun Kim, Kwnag-Jae Lee, Jung-Sun Kim</i> - The Study of RED Algorithm Used Multicast Router Based Buffer Management. 2. <i>Lei Cao, Jian Cao, Minglu Li</i> - Genetic Algorithm utilized in Cost-Reduction Driven Web Service Selection. 3. <i>Xiaohua Luo, Kougen Zheng, Zhaohui Wu, Yunhe Pan</i> - MacroOS: A Pervasive Computing Platform Supporting Context Awareness and Context Management. 4. <i>Qin Liu, Chanle Wu</i> - A Frame for Selecting Replicated Multicast Servers Using Genetic Algorithm. 5. <i>Shaohe Lv, Jianping Yin, Zhiping Cai, Chi Liu</i> - On a Novel Methodology for Estimating Available Bandwidth along Network Paths. 6. <i>Liyuan Zhao, Keqin Liu, Jun Zheng</i> - A New AQM Algorithm for Enhancing Internet Capability against Unresponsive Flows. 7. <i>Terry C. House</i> - Client Server Access: Wired vs. Wireless LEO Satellite-ATM Connectivity; A (MS-Ro-BAC) Experiment. 8. <i>Jinhyung Kim, Dongwon Jeong, Doo-Kwon Baik</i> - An Algorithm for Automatic Inference of Referential Integrities during Translation from Relational Database to XML Scheme.
Room E: Bioinformatics Computing	<p>Session Chair: Prof. Vojislav Stojkovic</p> <ol style="list-style-type: none"> 1. <i>Liefeng Bo, Ling Wang, Licheng Jiao</i> - Training Multi-Layer Perceptrons Using MiniMin Approach. 2. <i>Bin Fang, Xinge You, Yuan Yan Tang</i> - A Novel Fusing Algorithm for Retinal Fundus Images. 3. <i>Xiaohua Zhang, Hongyun Meng, Licheng Jiao</i> - Improving PSO-Based Multiobjective Optimization using Competition and Immunity Clonal. 4. <i>Ronghua Shang, Licheng Jiao, Maoguo Gong, Bin Lu</i> - Clonal Selection Algorithm for Dynamic Multiobjective Optimization. 5. <i>Fang Liu, Xiaoying Pan</i> - Key Frame Extraction Based on

	<p>Evolutionary Artificial Immune Network.</p> <p>6. <i>Hang Yu, Maoguo Gong, Licheng Jiao, Bin Zhang</i> - Clonal Selection Algorithm with Immunologic Regulation for Function Optimization.</p> <p>7. <i>Zhong Shen, Yilin Chang, Can Cui, Xin Zhang</i> - A Fault-Tolerant and Minimum-Energy Path-Preserving Topology Control Algorithm for Wireless Multi-hop Networks.</p> <p>8. <i>YueXuan Wang, Hong Yi, Zhonghua Ni</i> - Computational Biomechanics and Experimental Verification of Vascular Stent.</p>
18:00 pm -20:00 pm	Welcome Reception
	Saturday, 17th December
8:30 am -17:00 pm	Registration
8:30 am -9:30 am	<p>Keynote Session II Room A</p> <p>Keynote Speaker: Prof. Ning Zhong, Maebashi Institute of Technology, Japan</p> <p>Title: The Impending Revolution in Web Intelligence (WI) and Brain Informatics (BI)</p> <p>Session Chair: Prof. Yuping Wang, Xidian University</p>
9:30 am-10:30 am	
Room A: Learning Systems	<p>Session Chair: Prof. Gengui Zhou</p> <p>1. <i>In-Sung Jung, Devinder Thapa, Gi-Nam Wang</i> - Neural Network Based Algorithms for Diagnosis and Classification of Breast Cancer Tumor.</p> <p>2. <i>Yoshio Mogami</i> - New Learning Algorithm for Hierarchical Structure Learning Automata Operating in P-model Stationary Random Environment.</p> <p>3. <i>Jian Cao, Gengui Zhou, and Feng Ye</i> - A TFN-Based AHP Model for Solving Group Decision-Making Problems.</p> <p>4. <i>Jeongjun Lee, Dongmin Ji, Wonchang Lee, Geuntaek Kang, Moon G. Joo</i> - A Tactics for Robot Soccer with Fuzzy Logic Mediator.</p>
Room B: Info. Retrieval	<p>Session Chair: Prof. Chia-Chen Lin</p> <p>1. <i>Jin An Xu, Kenji Araki</i> - A Naive Statistics Method for Electronic Program Guide Recommendation System.</p> <p>2. <i>Shizhu Liu, Heping Hu</i> - A Hybrid Text Classification System Using Sentential Frequent Itemsets.</p> <p>3. <i>Ki-Won Yeom, Ji-Hyung Park</i> - An Approach of Information Extraction from Web Documents for Automatic Ontology Generation.</p> <p>4. <i>Zhi-Hong Deng, Ming Zhang</i> - Improving Text Categorization Using the Importance of Words in Different Categories.</p> <p>5. <i>Ming-Ni Wu, Chia-Chen Lin, Chin-Chen Chang</i> - Image Copy Detection with Rotating Tolerance.</p>
Room C: Security Architecture	<p>Session Chair: Prof. Teemupekka Virtanen</p> <p>1. <i>Xuegang Lin, Rongsheng Xu, Miaoliang Zhu</i> - Survivability Computation of Networked Information Systems.</p> <p>2. <i>Yong-Zheng Zhang, Bin-Xing Fang, Yue Chi, Xiao-Chun Yun</i> - Assessment of Windows System Security Using Vulnerability Relationship Graph.</p> <p>3. <i>Hui-Xian Li, Chun-Tian Cheng, Liao-Jun Pang</i> - A New (t, n)-threshold Multi-secret Sharing Scheme.</p> <p>4. <i>Sang-ho Park, Taekyoung Kwon</i> - An Efficient Message Broadcast Authentication Scheme for Sensor Networks.</p>
Room D: Cryptographic	<p>Session Chair: Prof. Ashutosh Saxena</p> <p>1. <i>Yuqing Zhang, Zhiling Wang, Bo Yang</i> - The Running-mode Analysis</p>

Protoc.	<p>of Two-party Optimistic Fair Exchange Protocols.</p> <ol style="list-style-type: none"> 2. <i>Jin Wook Byun, Dong Hoon Lee, Jongin Lim</i> - Password-Based Group Key Exchange Secure Against Insider Guessing Attacks. 3. <i>Qiang Tang, Chris J. Mitchell</i> - On the Security of Some Password-based Key Agreement Schemes. 4. <i>Xuyong, Sun Yuxiang</i> - A New Group Rekeying Method in Secure Multicast.
Room E: Application (I)	<p>Session Chair: Prof. Huamin Feng</p> <ol style="list-style-type: none"> 1. <i>Byeong Heon Cho, Sung Hoon Jung, Kwang-Hyun Shim, Yeong Rak Seong, Ha Ryoung Oh</i> - Adaptation of Intelligent Characters to Changes of Game Environments. 2. <i>Mengjie Yu, David Llewellyn Jones, A. Taleb-Bendiab</i> - A Knowledge Model for Self-regenerative Service Activations Adaptation across Standards. 3. <i>Bobby D. Gerardo, Jaewan Lee, Jae-jeong Hwang, Jung-Eun Kim</i> - An Agent for the HCARD Model in the Distributed Environment. 4. <i>HoWon Kim, Mun-Kyu Lee, Dong-Kyue Kim, Sang-Kyoon Chung, Kyoil Chung</i> - Design and Implementation of Crypto Co-processor and Its Application to Security Systems.
10:30 am-10:50 am	Tea / Coffee Break
10:50 am-12:05 pm	
Room A: Evolutionary Computation	<p>Session Chair: Prof. Vasu S. Alagar and Prof. Gengui Zhou</p> <ol style="list-style-type: none"> 1. <i>Jing Liu, Weicai Zhong, Licheng Jiao</i> - Moving Block Sequence and Organizational Evolutionary Algorithm for General Floorplanning. 2. <i>Hong Li, Yong-chang Jiao, Yuping Wang</i> - Integrating the simplified Interpolation into the Genetic Algorithm for Constrained Optimization Problems. 3. <i>Shude Zhou, Zengqi Sun</i> - Using Ensemble Method to Improve the Performance of Genetic Algorithm. 4. <i>Ling Chen, Li Tu</i> - Parallel Mining for Classification Rules with Ant Colony Algorithm. 5. <i>Gengui Zhou, Zhenyu Cao, Jian Cao, Zhiqing Meng</i> - A Genetic Algorithms Approach on Reverse Logistics Optimization for Product Return Distribution Network
Room B: Info Retrieval	<p>Session Chair: Prof. Chia-Chen Lin</p> <ol style="list-style-type: none"> 1. <i>Supratip Ghose, Geun-Sik Jo</i> - Interactive and Adaptive Search Context for the User with the Exploration of Personalized View Reformulation. 2. <i>Xin Zhiyun- Gu Ming, Sun Jiaguang</i> - Integrating Collaborate and Content-based Filtering for Personalized Information Recommendation. 3. <i>Dongfeng Han, Wenhui Li, Xiaomo Wang, Yanjie She</i> - Interest Region-based Image Retrieval System Based on Graph-Cut Segmentation and Feature Vectors. 4. <i>Ling Lin, Antonio Liotta, Andrew Hippisley</i> - A Method for Automating the Extraction of Specialized Information from the Web. 5. <i>Ben Wang, John Q. Gan</i> - An Incremental Updating Method for Clustering-Based High-Dimensional Data Indexing.
Room C: Security Management	<p>Session Chair: Prof. Sangjae Moon</p> <ol style="list-style-type: none"> 1. <i>Haibo Tian, Xi Sun, Yumin Wang</i> - A Virtual Bridge Certificate Authority Model. 2. <i>Jorma Kajava, Reijo Savola, Rauno Varonen</i> - Weak Signals in Information Security Management. 3. <i>Wu Liu, Hai-Xin Duan, Jian-Ping Wu, Xing Li</i> - PDTM: A Policy-

	<p>Driven Trust Management Framework in Distributed Systems.</p> <p>4. <i>Lin Mengquan, Wang Qiangmin, Li Jianhua</i> - Methodology of Quantitative Risk Assessment for Information System Security.</p> <p>5. <i>Bat-Odon Purevji, Masayoshi Aritsugi, Sayaka Imai, Yoshinari Kanamori, Cherri M. Pancake</i> - Protecting Personal Data with Various Granularities: A Logic-Based Access Control Approach.</p>
Room D: Web & Net Application	<p>Session Chair: Prof. Baobao Wang</p> <p>1. <i>Shuning Cui, Boqin Feng</i> - A Fuzzy Integral Method to Merge Search Engine Results on Web.</p> <p>2. <i>Seong-Woo Kim, Young-Chul Jung, Young-Tak Kim</i> - A Design of Platform for QoS-guaranteed Multimedia Services Provisioning on IP-based Convergence Network.</p> <p>3. <i>Tai Sik Lee, Dong Wook Lee, Jeong Hyun Kim</i> - Introduction of Knowledge Management System for Technical Support in Construction Industries.</p> <p>4. <i>Qihua Zheng, Yuntao Qian</i> - An Event Correlation Approach Based on the Combination of IHU and Codebook.</p>
Room E: Bioinformatics Computing	<p>Session Chair: Prof. Wensheng Chen</p> <p>1. <i>Dexin Zhao, Zhiyong Feng, Wenjie Li, Shugang Tang</i> - Numerical Computing of Brain Electric Field in Electroencephalogram.</p> <p>2. <i>Jianfeng Xu, Lixu Gu, Xiahai Zhuang, Terry Peters</i> - A Novel Multi-stage 3D Medical Image Segmentation: Methodology and Validation.</p> <p>3. <i>Xiahai Zhuang, Lixu Gu, Jianfeng Xu</i> - Medical Image Alignment by Normal Vector Information.</p> <p>4. <i>Qiang Zhang, Dongsheng Zhou, Xiaopeng Wei</i> - Global Exponential Stability of Non-autonomous Delayed Neural Networks.</p>
12:05 pm-13:30 pm	Lunch
13:30 pm-15:15 pm	
Room A: SVMs	<p>Session Chair: Prof. Huamin Feng</p> <p>1. <i>Hee-Jun Song, Sung-Hoe Huh, Joo-Hong Kim, Chang-Hoi Ho, Seon Ki Park</i> - Typhoon Track Prediction by a Support Vector Machine Using Data Reduction Methods.</p> <p>2. <i>Ping-Feng Pai, Wei-Chiang Hong, Chih-Sheng Lin</i> - Forecasting Tourism Demand Using a Multifactor Support Vector Machine Model.</p> <p>3. <i>Shaomin Zhang, Lijia Zhi, Shukuan Lin</i> - A Study of Modelling Non-Stationary Time Series Using Support Vector Machines with Fuzzy Segmentation Information.</p> <p>4. <i>Saqlain Akhtar, He Linshu</i> - Support Vector Machine Based Trajectory Metamodel for Conceptual Design of Multi-Stage Space Launch Vehicle.</p> <p>5. <i>Fan Sun, Maosong Sun</i> - Transductive Support Vector Machines Using Simulated Annealing.</p> <p>6. <i>Hee-Jun Song, Seon-Gu Lee, Sung-Hoe Huh</i> - Input Selection for Support Vector Machines using Genetic Algorithms.</p> <p>7. <i>Che-Chang Hsu, Chan-Yun Yang, Jr-Syu Yang</i> - Associating kNN and SVM for Higher Classification Accuracy.</p>
Room B: Image/Video Proc.	<p>Session Chair: Prof. Beji Zou</p> <p>1. <i>Zhe-Ming Lu, Hui Pei, Hans Burkhardt</i> - A Spatial/Frequency Hybrid Vector Quantizer Based on a Classification in the DCT Domain.</p> <p>2. <i>Ji Bai, Lizhuang Ma, Li Yao, Tingting Yao, Ying Zhang</i> - Removing of Metal Highlight Spots Based on Total Variation Inpainting with Multi-Sources-Flashing.</p> <p>3. <i>Kyoung-Mi Lee</i> - Component-Based Online Learning for Face Detection and Verification.</p>

	<ol style="list-style-type: none"> 4. <i>Wenbing Fan, Jing Chen, Jina Zhen</i> - SPIHT Algorithm Based on Fast Lifting Wavelet Transform in Image Compression. 5. <i>Jian Zhuang, Haifeng Du, Jinhua Zhang, Sun'an Wang</i> - The Study of the Auto Color Image Segmentation. 6. <i>Xuemei Xie, Guangming Shi, Xuyang Chen</i> - Optimal Prototype Filters for Near-Perfect-Reconstruction Cosine-Modulated Filter Banks. 7. <i>Junping Wang, Yue Hao</i> - Short Critical Area Computational method using mathematical morphology.
Room C: Intrusion Detection	<p>Session Chair: Prof. Xinyu Yang</p> <ol style="list-style-type: none"> 1. <i>Jangbok Kim, Jaehong Shim, Gihyun Jung, Kyunghee Choi</i> - Reducing Worm Detection Time and False Alarm in Virus Throttling. 2. <i>Jin Ho You, Seong Chae Seo, Young Dae Kim, Jun Yong Choi, Sang Jun Lee, Byung Ki Kim</i> - Protection against Format String Attacks by Binary Rewriting. 3. <i>Li Zhanchun, Li Zhitang, Li Yao, Liu Bin</i> - Masquerade Detection System Based on Principal Component Analysis and Radial Basics Function. 4. <i>Cheng Zhang, Qinke Peng</i> - Anomaly Detection Method based on HMMs Using System Call and Call Stack Information. 5. <i>Xiaojuan Sun, Xinliang Zhou, Ninghui Sun, Mingyu Chen</i> - Parallel Optimization Technology for Backbone Network Intrusion Detection System. 6. <i>Linru Ma, Lin Yang, Jianxin Wang</i> - Attack Scenario Construction Based on Rule and Fuzzy Clustering. 7. <i>Lingjuan Li, Wenyu Tang, Ruchuan Wang</i> - A CBR Engine Adapting to IDS.
Room D: Watermarking & Info.	<p>Session Chair: Prof. Wenping Ma</p> <ol style="list-style-type: none"> 1. <i>Chin-Chen Chang, Chia-Chen Lin, Jun-Bin Yeh</i> - Adaptive Hiding Scheme Based on VQ-indices Using Commutable Codewords. 2. <i>Xiaoping Liang, Xiaoyun Wu, Jiwu Huang</i> - Reversible Data Hiding for Image Based on Histogram Modification of Wavelet Coefficients. 3. <i>Young-Ran Park, Hyun-Ho Kang, Sang-Uk Shin, Ki-Ryong Kwon</i> - An Image Steganography Using Pixel Characteristics. 4. <i>Konstantinos Papapanagiotou, Emmanouel Kellinis, Giannis F. Marias, Panagiotis Georgiadis</i> - Alternatives for Multimedia Messaging System Steganography. 5. <i>Shuai Wan, Yilin Chang, Fuzheng Yang</i> - Error Concealment for Video Transmission Based on Watermarking. 6. <i>Tran Minh Triet, Duong Anh Duc</i> - Applying the AES and Its Extended Versions in a General Framework for Hiding Information in Digital Images. 7. <i>Liu Bin, Li Zhitang, Li Zhanchun</i> - An Image Hiding Algorithm Based on Bit Plane.
Room E: Application (II)	<p>Session Chair: Prof. Fung Chun Che</p> <ol style="list-style-type: none"> 1. <i>Ulvi Dagdelen, Aytekin Bagis, Dervis Karaboga</i> - An Efficient Control Method for Elevator Group Control System. 2. <i>Qi-jian Xu, Nai-tong Zhang, Jie Zhang, Yu Sun</i> - Next Generation Military Communication Systems Architecture. 3. <i>Antti Tikkanen, Teemupekka Virtanen</i> - Early Warning for Network Worms. 4. <i>Xinhua You, Bin Fang, Xinge You, Zhenyu He, Dan Zhang, Yuan Yan Tang</i> - Skeleton Representation of Character Based on Multiscale Approach. 5. <i>Wenming Cao, Wanfang Chai, Shoujue Wang</i> - Channel Equalization Based on Two Weights Neural Network.

	6. <i>Pawalai Kraipeerapun, Chun Che Fung, Warick Brown</i> - Assessment of Uncertainty in Mineral Prospectivity Prediction Using Interval Neutrosophic Set. 7. <i>Qiang Lei, Zhengtao Jiang, Yuming Wang</i> - Ring-based Anonymous Fingerprinting Scheme.
15:15 pm-15:35 pm	Tea / Coffee Break
15:35 pm-17:45 pm	
Room A: SVMs	Session Chair: Prof. Chan-Yun Yang 1. <i>Xiaoyan Tao, Hongbing Ji</i> - Multi-class SVMs Based on SOM Decoding Algorithm and its Application in Pattern Recognition. 2. <i>Srinivasa K G, Sharath S, Venugopal K R, Lalit M Patnaik</i> - Selective Dissemination of XML Documents Using GAs and SVM. 3. <i>Zhiqing Meng, Gengui Zhou, Yihua Zhu, Lifang Peng</i> - A Smoothing Support Vector Machines Based on Exact Penalty Function. 4. <i>Songwook Lee, Jongmin Eun, Jungyun Seo</i> - Speech Acts Tagging System for Korean Using Support Vector Machines. 5. <i>Zhiquan Qi, Yingjie Tian, Naiyang Deng</i> - A New Support Vector Machine for Multi-class Classification. 6. <i>Yingjie Tian, Naiyang Deng</i> - Support Vector Classification with Nominal Attributes. 7. <i>Yubo Yuan, Chunzhong Li</i> - A New Smooth Support Vector Machine.
Room B: Image/Video Proc.	Session Chair: Prof. Beji Zou 1. <i>Guiguang Ding, Qionghai Dai, Wenli Xu</i> - Motion-Compensated 3D Wavelet Video Coding Based on Adaptive Temporal Lifting Filter Implementation. 2. <i>Shin-Hyoung Kim, Jong Whan Jang, Seung-Phil Lee, Jae-Ho Choi</i> - Accurate Contouring Technique for Object Boundary Extraction in Stereoscopic Imageries. 3. <i>Yunshu Hou, Yanning Zhang, Rongchun Zhao</i> - Robust Object Tracking Based on Uncertainty Factorization Subspace Constraints Optical Flow. 4. <i>Xu Benlian, Wang Zhiquan</i> - Bearings-Only Target Tracking Using Node Selection Based on an Accelerated Ant Colony Optimization. 5. <i>Weixing Wang</i> - Image Classification and Delineation of Fragments. 6. <i>Wang Guoyuo, Wang Wentao</i> - A Novel Wavelet Image Coding Based on Non-uniform Scalar Quantization. 7. <i>Bai-Tao Zhou, Won Nah, Kang-Woong Lee, Joong-Hwan Baek</i> - A General Image Based Nematode Identification System Design.
Room C: Security Architecture	Session Chair: Prof. Xinyu Yang 1. <i>Fan Zhang, Xinhong Zhang, Zhiguo Chen</i> - Digital Image Authentication Based on Error-correction Codes. 2. <i>Duhyun Bae, Gwanyeon Kim, Jiho Kim, Sehyun Park, Ohyoung Song</i> - Design and Implementation of Efficient Cipher Engine for IEEE 802.11i Compatible with IEEE 802.11n and IEEE 802.11e. 3. <i>Shanshan Duan, Zhenfu Cao, Yuan Zhou</i> - Secure Delegation-by-Warrant ID-Based Proxy Signcryption Scheme. 4. <i>Seong Chae Seo, Jin Ho You, Young Dae Kim, Jun Yong Choi, Sang Jun Lee, Byung Ki Kim</i> - Building Security Requirements using State Transition Diagram at Security Threat Location. 5. <i>Weiping Liu, Wandong Cai</i> - Study on Security iSCSI Based on SSH. 6. <i>Kenli Li, Yan He, Renfa Li, Tao Yang</i> - A Scheduling Algorithm Based on a Trust Mechanism in Grid. 7. <i>Xinghua Li, Jianfeng Ma, SangJae Moon</i> - On the Security of the Canetti-Krawczyk Model.

Room D: Agents	Session Chair: Prof. Chia-Chen Lin <ol style="list-style-type: none"> 1. <i>Ciro Castiello, Anna Maria Fanelli</i> - Meta-learning Experiences with the MINDFUL System. 2. <i>Vasu S. Alagar, Mao Zheng</i> - A Software Architecture for Multi-Agent Systems. 3. <i>Jong-Hyuk Park, Jun-Choi, Sang-Jin Lee, Hye-Ung Park, Deok-Gyu Lee</i> - User-oriented Multimedia Service using Smart Sensor Agent Module in the Intelligent Home. 4. <i>Trung Hau Tran, Cédric Sanza, Yves Duthen</i> - Learning Cooperation from Classifier Systems. 5. <i>Romeo Mark A. Mateo, Bobby D. Gerardo, Jaewan Lee</i> - Location Management using Hierarchical Structured Agents for Distributed Databases. 6. <i>Baobao Wang, Ye Wang</i> - On_line Measurement System of Virtual Dielectric Loss Based on Wavelet and LabVIEW and Correlation Technics. 7. <i>Lijun Wu, Kaile Su, Qingliang Chen</i> - Model Checking Temporal Logics of Knowledge and Its Application in Security Verification. 8. <i>Shangmin Luan, Guozhong Dai</i> - A Computational Approach for Belief Change.
Room E: Application (II)	Session Chair: Prof. Fung Chun Che <ol style="list-style-type: none"> 1. <i>Jae-Min Seol, Seong-Whan Kim</i> - Scalable and Robust Fingerprinting Scheme using Statistically Secure Extension of Anti-Collusion Code. 2. <i>Ly Xixiang, Yang Bo</i> - Broadcast Encryption Using Identity-based Public-key Cryptosystem. 3. <i>Goo-Rak Kwon, Tea-Young Lee, Kyoung-Ho Kim, Jae-Do Jin, Sung-Jea Ko</i> - Multimedia Digital Right Management using Selective Scrambling for Mobile Handset. 4. <i>Xiaoliang He, Chengxian Xu, Chuanchao Zhu</i> - A New Class of Filled Functions for Global Minimization. 5. <i>Wenming Cao, Jianqing Li, Shoujue Wang</i> - Continuous Speech Research Based on HyperSausage Neuron. 6. <i>Changcai Han, Dongfeng Yuan</i> - Variable-Rate Channel Coding for Space-Time Coded MIMO System. 7. <i>Xiang-chu Feng, Yongdong Yang</i> - A New Watermarking Method Based on DWT.
18:00 pm-20:00 pm	Conference Banquet
Sunday, 18th December	
8:30 am-17:00 pm	Registration
8:30 am-9:30 am	Keynote Session III Room A Keynote Speaker: Prof. Zongben Xu, Xi'an Jiao Tong University, China Title: Visual Learning Theory: A New Classification Machine Session Chair: Prof. Ning Zhong, Maebashi Institute of Technology, Japan
9:30 am-10:30 am	
Room A: SVMs	Session Chair: Prof. Ling Chen <ol style="list-style-type: none"> 1. <i>Zhuang Chuanli, Fu Zetian, Yang Ping, Zhang Xiaoshuan</i> - The Application of Support Vector Machine in the Potentiality Evaluation for Revegetation of Abandoned Lands from Coal Mining Activities. 2. <i>Feng Shi, Jing Huang</i> - Prediction of T-cell Epitopes Using Support Vector Machine and Similarity Kernel. 3. <i>Liangjiang Liu, Yaonan Wang</i> - Radial Basis Function Support Vector Machine Based Soft-magnetic Ring Core Inspection. 4. <i>Wang Dongliang, Liu Bin, Zhang Zengke</i> - Direct Adaptive NN

	Control of a Class of Feedforward Systems.
Room B: Data Mining	Session Chair: Prof. Guangming Shi <ol style="list-style-type: none"> 1. <i>Jinfeng Liu, Gang Rong</i> - Mining Dynamic Association Rules in Databases. 2. <i>Jie Li, Xinbo Gao, Licheng Jiao</i> - A Novel Typical-Sample-Weighted Clustering Algorithm for Large Data Sets. 3. <i>Shen Bin, Yao Min, Yuan Bo</i> - Mining Weighted Generalized Fuzzy Association Rules with Fuzzy Taxonomies. 4. <i>Shaoxu Song, Jian Zhang, Chunping Li</i> - Concept Chain Based Text Clustering. 5. <i>Chuyu Li, Long Jin, Sungbo Seo, Keun Ho Ryu</i> - An Efficient Range Query under the Time Warping Distance.
Room C: Agents	Session Chair: Prof. Shangmin Luan <ol style="list-style-type: none"> 1. <i>Jong-Wan Kim, Sin-Jae Kang</i> - Feature Selection by Fuzzy Inference and Its Application to Spam-mail Filtering. 2. <i>A.K. Sharma, Dimple Juneja</i> - Design of Multiagent Framework for Cellular Networks. 3. <i>Bo An, Chunyan Miao, Zhiqi Shen, Yuan Miao, Daijie Cheng</i> - Transitive Dependence Based Formation of Virtual Organizations. 4. <i>Xiaochun Cheng, Xin He, Xiaoqi Ma, Dongdai Zhou, Peijun Duan, Shaochun Zhong</i> - An Agent Based Education Resource Purvey System.
Room D: Swarm Intelligence	Session Chair: Prof. Shuguang Zhao <ol style="list-style-type: none"> 1. <i>Chin Kuan Ho, Hong Tat Ewe</i> - Performance of an Ant Colony Optimization (ACO) Algorithm on the Dynamic Load-Balanced Clustering Problem in Ad Hoc Networks. 2. <i>Bo Liu, Ling Wang, Yi-hui Jin</i> - Hybrid Particle Swarm Optimization for Flow Shop Scheduling with Stochastic Processing Time. 3. <i>Guojiang Fu, Shaomei Wang, Mingjun Chen, Ning Li</i> - Particle Swarm Optimizer with C-Pg Mutation. 4. <i>K.W. Chau</i> - Algal Bloom Prediction with Particle Swarm Optimization Algorithm.
Room E: Application (I)	Session Chair: Prof. Hongwei Huo <ol style="list-style-type: none"> 1. <i>Hesuan Hu, Zhiwu Li, Weidong Wang</i> - Modified PSO Algorithm for Deadlock Control in FMS. 2. <i>Hong Jin, Hui Wang, Hongan Wang, Guozhong Dai</i> - Optimization Design of Controller Periods Using Evolution Strategy. 3. <i>Zhenyu Zou, Quanyuanjiang, Pengxiang Zhang, Yijia Cao</i> - Application of Multi-Objective Evolutionary Algorithm in Coordinated Design of PSS and SVC Controllers. 4. <i>Sungjune Hong, Sunyoung Han</i> - The Next Generation PARLAY X with QoS/QoE.
10:30 am-10:50 am	Tea / Coffee Break
10:50 am-12:05 pm	
Room A: Evolutionary Computation	Session Chair: Prof. Ling Chen <ol style="list-style-type: none"> 1. <i>Shuguang Zhao, Licheng Jiao, Jun Zhao</i> - Multi-objective Evolutionary Design and Knowledge Discovery of Logic Circuits with an Improved Genetic Algorithm. 2. <i>Yin Bo, Wei Zhiqiang, Zhuang Xiaodong</i> - Robust Mobile Robot Localization Using a Evolutionary Particle Filter. 3. <i>Yun Pan, Zhenwei Yu, Licheng Wang</i> - Hybrid Genetic Algorithm for Solving the Degree-Constrained Minimal Bandwidth Multicast Routing Problem. 4. <i>Wei-Guo Zhang, Ying-Luo Wang</i> - Using Fuzzy Possibilistic Mean and

	<p>Variance in Portfolio Selection Model.</p> <p>5. <i>Lixia Han, Yuping Wang</i> - Multi-criteria Network Design Using Genetic algorithm.</p>
Room B: Pattern Recognition	<p>Session Chair: Prof. Zhiqiang Yao</p> <p>1. <i>Rui Ma, Yaxuan Qi, Changshui Zhang, Jiaxin Wang</i> - Fingerprint Ridge Line Extraction Based on Tracing and Directional Feedback.</p> <p>2. <i>Han Su, Feng-Gang Huang</i> - A New Method for Human Gait Recognition Using Temporal Analysis.</p> <p>3. <i>Wencang Zhao, Xinbo Yu, Fengxiang Li</i> - Microcalcification Patterns Recognition based Combination of Autoassociator and Classifier.</p> <p>4. <i>Fuzheng Yang, Shuai Wan, Yilin Chang</i> - Improved Method for Gradient-Threshold Edge Detector Based on HVS.</p> <p>5. <i>Arindam Biswas, Partha Bhowmick, Bhargab B. Bhattacharya</i> - MUSC: Multigrid Shape Codes and Their Applications to Image Retrieval.</p>
Room C: Security Management	<p>Session Chair: Prof. Shangmin Luan</p> <p>1. <i>Mei-juan Huang, Jian-zhong Zhang, Shu-cui Xie</i> - A Secure and Efficient (t, n) Threshold Verifiable Multi-secret Sharing Scheme.</p> <p>2. <i>Chin-Chen Chang, Jung-San Lee</i> - Improvement on an Optimized Protocol for Mobile Network Authentication and Security.</p> <p>3. <i>Li Qian-Mu, Xu Man-Wu, Zhang Hong, Liu Feng-Yu</i> - Neural Network based Flow Forecast and Diagnosis.</p> <p>4. <i>Hui-Feng Huang, Chin-Chen Chang</i> - Enhancement of an Authenticated Multiple-key Agreement Protocol without Using Conventional One-way Function.</p> <p>5. <i>Hui He, Mingzeng Hu, Weizhe Zhang, Hongli Zhang, Zhi Yang</i> - Topology-based Macroscopical Response and Control Technology for Network Security Event.</p>
Room D: Cryptography & Coding	<p>Session Chair: Prof. Hui Li</p> <p>1. <i>Geoff Skinner, Song Han, Elizabeth Chang</i> - A New Conceptual Framework within Information Privacy: Meta Privacy.</p> <p>2. <i>Feng-Tong Wen, Wen-Ling Wu, Qiao-Yan Wen</i> - Error Oracle Attacks on Several Modes of Operation.</p> <p>3. <i>Lihua Dong, Yong Zeng, Yupu Hu</i> - Stability of the Linear Complexity of the Generalized Self-Shrinking Sequences.</p> <p>4. <i>Yajing Li, Weihong Chen</i> - On the Construction of Some Optimal Polynomial Codes.</p> <p>5. <i>Xuebing Zhou, Martin Schmucker, Christopher L. Brown</i> - Perceptual Hashing of Video Content Based on Differential Block Similarity.</p>
Room E: Bioinformatics Computing	<p>Session Chair: Prof. Hongwei Huo</p> <p>1. <i>Xiaobing Gan, Ying Liu, Francis R. Austin</i> - A Prediction Method for Time Series Based on Wavelet Neural Networks.</p> <p>2. <i>Jinwen Ma, Fei Ge, Dengpan Gao</i> - Two Adaptive Matching Learning Algorithms for Independent Component Analysis.</p> <p>3. <i>Yanling Wu, Jiangang Lu, Youxian Sun, Peifei Yu</i> - Bioprocess Modeling Using Genetic Programming Based on a Double Penalty Strategy.</p> <p>4. <i>Caisheng He, Xianhua Dai</i> - An Improved Gibbs Sampling Algorithm for Finding TFBS.</p>
12:05 pm-13:30 pm	Lunch
13:30 pm-15:15 pm	
Room A: Learning Systems	<p>Session Chair: Prof. Gengui Zhou</p> <p>1. <i>Pengfei Liu, Jiuqiang Han</i> - Gait Control for Biped Robot Using Fuzzy Wavelet Neural Network.</p>

	<ol style="list-style-type: none"> 2. <i>Deyu Meng, Chen Xu, Wenfeng Jing</i> - A New Approach for Regression: Visual Regression Approach. 3. <i>Limin Wang, Chunhong Cao, Haijun Li, Haixia Chen, Liyan Dong</i> - Orthogonally Rotational Transformation for Naive Bayes Learning. 4. <i>Tao Du, S.S. Zhang, Zongjiang Wang</i> - Efficient Learning Bayesian Networks Using PSO. 5. <i>Zengyou He, Shengchun Deng, Xiaofei Xu</i> - Improving K-Modes Algorithm Considering Frequencies of Attribute Values in Mode. 6. <i>S.R.Samantaray, P.K.Dash, G. Panda, B.K.Panigrahi</i> - Distance Protection of Compensated Transmission Line Using Computational Intelligence. 7. <i>Asim Karim</i> - Computational Intelligence for Network Intrusion Detection: Recent Contributions.
Room B: Image/Video Proc.	<p>Session Chair: Prof. Xiamu Niu</p> <ol style="list-style-type: none"> 1. <i>Ling Zhang, Xian-Da Zhang</i> - A Novel SVD-Based RLS Blind Adaptive Multiuser Detector for CDMA Systems. 2. <i>Jung-Youp Suk, Gun-Woo Lee, Kuhn-Il Lee</i> - New Electronic Digital Image Stabilization Algorithm in Wavelet Transform Domain. 3. <i>Z. W. Liao, S. X. Hu, T. Z. Huang</i> - Line Segments and Dominate Points Detection Based on Hough Transform. 4. <i>Han-Suh Koo, Chang-Sung Jeong</i> - Modified EZW Coding for Stereo Residual. 5. <i>Vivek Maik, Jeongho Shin, Joonki Paik</i> - Regularized Image Restoration by means of Fusion for Digital Auto-Focusing. 6. <i>Gangyi Jiang, Liangzhong Fan, Mei Yu, Rangding Wang, Xien Ye, Yong-deak Kim</i> - Fast Ray-space Interpolation Based on Occlusion Analysis and Feature Points Detection. 7. <i>Fasong Wang, Hongwei Li, Rui Li, Shaoquan Yu</i> - Non-Parametric ICA Algorithm for Hybrid Sources Based on GKNN Estimation.
Room C: Security Architecture	<p>Session Chair: Prof. Daoyi Dong</p> <ol style="list-style-type: none"> 1. <i>Yunkai Zhang, Fangwei Wang, Changguang Wang, Jianfeng Ma</i> - Worm Propagation Modeling and Analysis on Network. 2. <i>Zhang Hong, Duan Hai-xin, Liu Wu, Wu Jian-ping</i> - An Extensible AAA Infrastructure for IPv6. 3. <i>Fan Zhang , Jianfeng Ma, SangJae Moon</i> - The Security Proof of a 4-way Handshake Protocol in IEEE 802.11i. 4. <i>Chang Won Pack, Sung Jin Choi, Hee Yong Youn</i> - A Noble Key Pre-distribution Scheme with LU Matrix for Secure Wireless Sensor Networks.
Room D: Cryptographic Protoc.	<p>Session Chair: Prof. Yupu Hu</p> <ol style="list-style-type: none"> 1. <i>Jian Liao, Yinghao Qi, Peiwei Huang, Mentian Rong</i> - Pairing-Based Provable Blind Signature Scheme without Random Oracles. 2. <i>Qin Wang, Zhenfu Cao</i> - Efficient ID-Based Proxy Signature and Proxy Signcryption form Bilinear Pairings. 3. <i>Changgen Peng, Xiang Li</i> - An Identity-Based Threshold Signcryption Scheme with Semantic Security. 4. <i>Li Hui, Shen Ting</i> - A Token-Based Single Sign-on Protocol. 5. <i>Shaohua Tang</i> - Simple Threshold RSA Signature Scheme Based on Simple Secret Sharing. 6. <i>Qiang Tang, Chris J. Mitchell</i> - Efficient Compilers for Authenticated Group Key Exchange. 7. <i>Lihua Wang, Takeshi Okamoto, Tsuyoshi Takagi, Eiji Okamoto</i> - Insider Impersonation-MIM Attack to Tripartite Key Agreement Scheme and an Efficient Protocol for Multiple Keys.
Room E:	<p>Session Chair: Prof. Qijian Xu</p>

Application (II)	<ol style="list-style-type: none"> 1. <i>Sukhyun Lim, Kang-hee Seo, Byeong-Seok Shin</i> - A Noise-Insensitive Hierarchical Min-Max Octree for Visualization of Ultrasound Datasets. 2. <i>Daniel Kang, Byeong-Seok Shin</i> - Efficient Point Rendering Method Using Sequential Level-of-Detail. 3. <i>Tongqi Zhang, Qingjiang Chen</i> - Construction of A Class of Compactly Supported Biorthogonal Multiple Vector-valued Wavelets. 4. <i>Yoo-Joo Choi, Jeong-Sik Kim, Min-Jeong Kim, Soo-Mi Choi, Myoung-Hee Kim</i> - Metabolic Visualization and Intelligent Shape Analysis of the Hippocampus. 5. <i>Kwangsun Ko, Insook Jang, Yong-hyeog Kang, Jinseok Lee, Young Ik Eom</i> - Characteristic Classification and Correlation Analysis of Source-Level Vulnerabilities in the Linux Kernel.
15:15 pm-15:35 pm	Tea / Coffee Break
15:35 pm-17:45 pm	
Room A: Data Mining	<p>Session Chair: Prof. Guangming Shi</p> <ol style="list-style-type: none"> 1. <i>Soon-tak Lee, Joon-sik Baek, Joong-hwan Baek</i> - Robust Scene Boundary Detection Based on Audiovisual Information. 2. <i>Zengyou He, Shengchun Deng, Xiaofei Xu</i> - An FP-Tree Based Approach for Mining All Strongly Correlated Item Pairs. 3. <i>Wenqian Shang, Houkuan Huang, Haibin Zhu, Yongmin Lin, Zhihai Wang, Youli Qu</i> - An Improved kNN Algorithm — Fuzzy kNN. 4. <i>Zhou Hong-fang, Feng Bo-qin, Lv Lin-tao, Wang Zhu-rong</i> - A New Integrated Personalized Recommendation Algorithm. 5. <i>Congfu Xu, Jinlong Wang, Hongwei Dan, Yunhe Pan</i> - An Improved EMASK Algorithm for Privacy-Preserving Frequent Pattern Mining. 6. <i>HaiBo Chen, ZhanQuan Wang</i> - CR*-tree: An improved R-tree using cost model. 7. <i>Wei Wang, Ji Zhang, Hai Wang</i> - Grid-ODF: Detecting Outliers Effectively and Efficiently in Large Multi-dimensional Databases. 8. <i>Xi-zhe Zhang, Tian-yang Lv, Zheng-xuan Wang, Wan-li Zuo</i> - Clustering XML Documents by Structure Based on Common Neighbor.
Room B: Image/Video Proc.	<p>Session Chair: Prof. Xiamu Niu</p> <ol style="list-style-type: none"> 1. <i>Kyu-Yeol Chae, Won-Pyo Dong, Chang-Sung Jeong</i> - SUSAN Window Based Cost Calculation for Fast Stereo Matching. 2. <i>Zhiliang Xu, Shengli Xie, Youjun Xiang</i> - An Efficient Adaptive De-blocking Algorithm. 3. <i>Lei Wang, Beiji Zou, Jianguang Sun</i> - Facial Features Location by Analytic Boosted Cascade Detector. 4. <i>Zhilin Feng, Jianwei Yin, Zhaoyang He, Wuheng Zuo, Jinxiang Dong</i> - New Approach for Segmentation and Pattern Recognition of Jacquard Images. 5. <i>Jinwu Wei, Jiangxing Wu</i> - Nonstationarity of Network Traffic within Multi-scale Burstiness Constraint. 6. <i>Li Zhang, Shiming Ji, Yi Xie, Qiaoling Yuan, Yuehua Wan, Guanjuan Bao</i> - Principle of Image Encrypting Algorithm Based on Magic Cube Transformation. 7. <i>Dongdong Zhang, Wenjun Zhang, Li Song, Hongkai Xiong</i> - A Study on Motion Prediction and Coding for In-band Motion Compensated Temporal Filtering. 8. <i>Qing Xu, Shiqiang Bao, Rui Zhang, Ruijuan Hu, Mateu Sbert</i> - Adaptive Sampling for Monte Carlo Global Illumination Using Tsallis Entropy.

Room C: Agents	<p>Session Chair: Prof. Daoyi Dong</p> <ol style="list-style-type: none"> 1. <i>Jun Hu and Chun Guan</i> - Model of Game Agent for Auction-based Negotiation. 2. <i>Daoyi Dong, Chunlin Chen, Chenbin Zhang, and Zonghai Chen</i> - An Autonomous Mobile Robot Based on Quantum Algorithm. 3. <i>Jing Tian, Yanxing Zheng, Huayong Zhu, Lincheng Shen</i> - A MPC and Genetic Algorithm Based Approach for Multiple UAVs Cooperative Search. 4. <i>Gang Li, Linyan Sun, Ping Ji, Haiquan Li</i> - Self-Organization Evolution of Supply Networks: System Modeling and Simulation Based on Multi-agent. 5. <i>Fenglei Liu, Zhenhua Yu, Yuanli Cai</i> - Modeling and Analysis of Multi-agent Systems Based on π-Calculus. 6. <i>Jingli Zhou, Gang Liu, Shengsheng Yu, Yong Su</i> - A Cooperation Mechanism in Agent-based Autonomic Storage Systems. 7. <i>Xiaochun Cheng, Xiaoqi Ma, Long Wang, Shaochun Zhong</i> - A Mobile Agent Based Spam Filter System. 8. <i>Han-Ul Yoon, Kwee-Bo Sim</i> - Hexagon-Based Q-Learning to Find a Hidden Target Object.
Room D: Watermarking & Info.	<p>Session Chair: Prof. Yupu Hu</p> <ol style="list-style-type: none"> 1. <i>Xiang-Yang Wang, Hong Zhao</i> - A Blind Audio Watermarking Algorithm Robust Against Synchronization Attack. 2. <i>Hyun-Mi Kim, Ik-Hwan Cho, A-Young Cho, Dong-Seok Jeong</i> - Semi-Fragile Watermarking Algorithm for Detection and Localization of Temper Using Hybrid Watermarking Method in MPEG-2 Video. 3. <i>Yao Zhiqiang, Chen Liping, Pan Rihong, Zou Boxian, Chen Licong</i> - Public Watermarking Scheme Based on Multiresolution Representation and Double Hilbert Scanning. 4. <i>Daesung Moon, Taehae Kim, SeungHwan Jung, Yongwha Chung, Kiyoun Moon, Dosung Ahn, Sang-Kyoon Kim</i> - Performance Evaluation of Watermarking Techniques for Secure Multimodal Biometric Systems. 5. <i>Seong-Whan Kim, Hyun-Sung Sung</i> - An Improvement of Auto-Correlation based Video Watermarking Scheme using Independent Component Analysis. 6. <i>Chen Xu, Weiqiang Zhang, Francis R. Austin</i> - A Digital Watermarking Technique Based on Wavelet Packages. 7. <i>Long Ma, Changjun Li, Shuni Song</i> - A Spectral Images Digital Watermarking Algorithm. 8. <i>Niladri B. Puhon, Anthony T. S. Ho</i> - Restoration in Secure Text Document Image Authentication Using Erasable Watermarks.
Room E: Swarm Intelligence	<p>Session Chair: Prof. Shuguang Zhao</p> <ol style="list-style-type: none"> 1. <i>Teng-Bo Chen, Yong-Chang Jiao, Fu-Shun Zhang</i> - Synthesis of Antenna Array Using a Modified Particle Swarm Optimization Algorithm. 2. <i>Y. T. Bau, C. K. Ho, H. T. Ewe</i> - An Ant Colony Optimization Approach to the Degree-Constrained Minimum Spanning Tree Problem. 3. <i>Guimin Chen, Qi Han, Jianyuan Jia, Wenchao Song</i> - Crowd Avoidance Strategy in Particle Swarm Algorithm. 4. <i>Xiaohui Yuan, Jing Peng, Yasumasa Nishiura</i> - Particle Swarm Optimization with Multiscale Searching Method. 5. <i>Yuelin Gao, Chengxian Xu, Yueting Yang</i> - Outconme-Space Branch and Bound Algorithm for Solving Linear Multiplicative Programming. 6. <i>Min Kong, Peng Tian</i> - A Binary Ant Colony Optimization for the

	Unconstrained Function Optimization Problem.
18:00 pm-19:00 pm	Dinner
	Monday, 19th December
8:30 am-17:30 pm	Local Tour: Terra-Cotta Warriors and Horses Museum, Emperor Qinshihuang's Mausoleum, Huaqing Pool, the Terracotta Soldiers and Horses Reproduction Factory