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Part I ISA 2009 Conference Schedule

23 May, 2009

9:00-20:00 **Registration** **Wuhan Bashanyeyu Hotel**

Sunday morning, May 24

Time	Activity	Location
8:30-8:45	Opening Ceremony	
8:45-9:15	Keynote Speech: Fault Monitoring, Diagnostics and Security of Critical Infrastructure Systems Speaker: Prof., IEEE Fellow, Marios M. Polycarpou, Director of the KIOS Research Center for Intelligent Systems and Networks, Department of Electrical and Computer Engineering University of Cyprus	
9:15-9:45	Keynote Speech: Adaptive Control and Its Applications Speaker: Prof., IEEE Fellow, Shuzhi Sam Ge, Director, Social Robotics Lab, Interactive Digital Media Institute (IDMI) & Department of Electrical & Computer Engineering National University of Singapore	Ballroom 9 th floor Wuhan Bashanyeyu Hotel
9:45-10:00	Coffee Break	
10:00-10:30	Keynote Speech: A New Classification Mechanism for Retinal Images Speaker: Prof., IEEE Fellow and IET Fellow, Chin-Chen Chang (Department of Information Engineering and Computer Science Feng Chia University)	
10:30-11:00	Keynote speech: Adaptive Dynamic Programming - A New Tool for Intelligent Control Speaker: Prof., IEEE Fellow, Derong Liu Institute of Automation, Chinese Academy of Sciences	
11:00-11:30	Keynote Speech: Remarks on different reviews of Chinese character recognition Speaker: Prof., IEEE Fellow, IAPR Fellow, Yuanyan Tang, Chair of Technical Committee on Machine Learning in IEEE Systems, Man, and Cybernetics Society (IEEE SMC)IEEE SMC Fellow Committee Member Chair Professor, Department of Computer Science, Hong Kong Baptist University	
11:30-12:00	Keynote Speech: Neurodynamic Optimization with Its Application to Model Predictive Control Speaker: Prof., IEEE Fellow, Jun Wang, Department of Mechanical & Automation Engineering, The Chinese University of Hong Kong	

Sunday noon, May 24

12:30-13:30	Launch Buffet	Wuhan Bashanyeyu Hotel
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Sunday afternoon, May 24

Time	Activity (coffee Break 15:50-16:10)	Location
	Oral session 1: Intelligent Systems and Applications	Room 926
14:30-17:30	Oral session 2: Intelligent Systems and Applications	Room 927
	Oral session 3: Intelligent Systems and Applications	Room 928

Sunday Evening, May 24

18:30-20:00	Welcome Banquet
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Monday, May 25

Time	Activity	Location
8:30-17:00	One day tour in Wuhan	Wuhan

Part II Keynote Speeches

Keynote speech: Fault Monitoring, Diagnostics and Security of Critical Infrastructure Systems

Speaker: Prof., IEEE Fellow, Marios M. Polycarpou, Director of the KIOS Research Center for Intelligent Systems and Networks, Department of Electrical and Computer Engineering University of Cyprus

Time: 8:45 -9:15, May 24, 2009

Location: Ballroom, 9th floor, Wuhan Bashanyeyu Hotel



Abstract- Modern societies have reached a point where everyday life relies heavily on the reliable operation and intelligent management of critical infrastructures, such as electric power systems, telecommunication networks, water distribution networks, transportation systems, etc. Designing, monitoring and controlling such systems is becoming increasingly more challenging as their size, complexity and interactions are steadily growing. Moreover, these critical infrastructures are susceptible to natural disasters, frequent failures, as well as malicious attacks. There is an urgent need to develop a common system-theoretic framework for modeling the behavior of critical infrastructure systems and for designing algorithms for intelligent monitoring, control and security of such systems. The goal of this presentation is to motivate the need for fault diagnosis and security of critical infrastructure systems and to provide a methodology for detecting, isolating and accommodating both abrupt and incipient faults in a class of complex nonlinear dynamic systems. A detection and approximation estimator based on computational intelligence techniques is used for online health monitoring. Once a fault is detected, a bank of isolation estimators is activated for the purpose of fault isolation. A key design issue is the adaptive residual threshold associated with each isolation estimator. Various adaptive approximation techniques and learning algorithms will be presented and illustrated, and directions for future research will be discussed.

Bibliography

Marios M. Polycarpou is a Professor of Electrical and Computer Engineering and Director of the KIOS Research Center for Intelligent Systems and Networks at the University of Cyprus. He received the B.A. degree in Computer Science and the B.Sc. degree in Electrical Engineering both from Rice University, Houston, TX, USA in 1987, and the M.S. and Ph.D. degrees in Electrical Engineering from the University of Southern California, Los Angeles, CA, in 1989 and 1992 respectively. In 1992, he joined the University of Cincinnati, Ohio, USA, where he reached the rank of Professor of Electrical and Computer Engineering and Computer Science. In 2001, he was the first faculty and the founding department Chair of the newly established of Electrical and Computer Engineering Dept at the University of Cyprus. His teaching and research interests are in intelligent systems and control, adaptive and cooperative control systems, computational

intelligence, fault diagnosis and distributed agents. Dr. Polycarpou has published more than 185 articles in refereed journals, edited books and refereed conference proceedings, and co-authored the book Adaptive Approximation Based Control, published by Wiley in 2006. He is also the holder of 3 patents.

Prof. Polycarpou is currently the Editor-in-Chief of the IEEE Transactions on Neural Networks. He serves as an Associate Editor of two international journals and past Associate Editor of the IEEE Transactions on Neural Networks (1998-2003) and of the IEEE Transactions on Automatic Control (1999-2002). He served as the Chair of the Technical Committee on Intelligent Control, IEEE Control Systems Society (2003-05) and as Vice President, Conferences, of the IEEE Computational Intelligence Society (2002-03). He is currently an elected member of the Board of Governors of the IEEE Control Systems Society and an elected AdCom member of the IEEE Computational Intelligence Society. Dr. Polycarpou was the recipient of the William H. Middendorf Research Excellence Award at the University of Cincinnati (1997) and was nominated by students for the Professor of the Year award (1996). His research has been funded by several agencies in the United States, the European Commission and the Research Promotion Foundation of Cyprus. Dr. Polycarpou is a Fellow of the IEEE.

Keynote speech: Adaptive Control and Its Applications

Speaker: Prof., IEEE Fellow, Shuzhi Sam Ge Director, Social Robotics Lab, Interactive Digital Media Institute (IDMI) & Department of Electrical & Computer Engineering National University of Singapore

Time: 9:15 -9:45, May 24, 2009

Location: Ballroom, 9th floor, Wuhan Bashanyeyu Hotel



Abstract- Many complex systems are usually difficult to model and governed by general (non-affine) nonlinear systems. The well developed control schemes for affine nonlinear systems find of little use. By elegantly utilizing the Mean value and implicit function theorems, the existence of ideal stabilizing control laws are first established for non-affine nonlinear systems. Then, by combining the adaptive control and neural network parameterization techniques, stable adaptive neural network control is presented rigorously, which demonstrate that intelligent control can do what traditional adaptive control could not, and intelligent control provides the fundamentals for further development of advanced adaptive control for complex industrial systems. Because of the inherent differences of operators, adaptive controls are presented for nonlinear systems in both continuous time and discrete-time. Finally, a new control design is presented for a class of nonlinear systems in strict feedback form with output constraint, though our newly introduced - Barrier Lyapunov Function - which grows to infinity when its arguments approaches certain limiting values. The key principle is that, by ensuring boundedness of the Barrier Lyapunov Function in the closed loop, we also ensure that the barriers are not transgressed. Asymptotic tracking is achieved without violation of constraint, and all closed loop signals remain bounded, under a mild condition on the initial output.

Bibliography

Shuzhi Sam Ge, IEEE Fellow, P.Eng, is the Director of Social Robotics Lab, Interactive Digital Media Institute, and Supervisor of Edutainment Robotics Lab, Department of Electrical and Computer Engineering, The National University of Singapore. He received his PhD degree and DIC from the Imperial College, London, and BSc degree from Beijing University of Aeronautics & Astronautics. He has (co)-authored three books, and over 300 international journal and conference papers. He serves as Vice President of Technical Activities, 2009-2010, and Member of Board of Governors, 2007-2009, and Chair of Technical Committee on Intelligent Control, 2005-2008, of IEEE Control Systems Society. He served as General Chair and Program Chair for a number of IEEE international conferences.

He is the Editor-in-Chief, International Journal of Social Robotics, and Springer. He has served/been serving as an Associate Editor for a number of flagship journals including IEEE Transactions on Automatic Control, IEEE Transactions on Control Systems Technology, IEEE Transactions on Neural Networks, and Automatica, and Book Editor for Taylor & Francis Automation and Control Engineering Series. He was the recipient of Changjiang Guest Professor, MOE, China, 2008; and Fellow of IEEE, USA, 2006.

Keynote speech: A New Classification Mechanism for Retinal Images

Speaker: Prof., IEEE Fellow and IET Fellow Chin-Chen Chang (Department of Information Engineering and Computer Science Feng Chia University)

Time: 10:00-10:30, May 24, 2009

Location: Ballroom, 9th floor, Wuhan Bashanyeyu Hotel



Abstract—In this paper, we propose a classification mechanism for retinal images so that the retinal images can be successfully distinguished from nonretinal images, egg yolk images for example. The proposed classification mechanism consists of two procedures: training and classification. The image features of retinal images and nonretinal images are extracted at the beginning of the training procedure to make sure the precision rate of the proposed classification mechanism is as high as possible while maintaining acceptable execution time of training procedure. In this paper, we design two classification mechanisms: one is pure SVM and the other is a hybrid that combines PCA and SVM mechanisms. Experimental results confirm that the accuracy rate of pure SVM is up to 96% for both 10-image and 20-image data sets. Moreover, PCA+SVM not only successfully reduces the features of images by using PCA but also maintains the accuracy rate above 90% for 10- and 20-image data sets.

Bibliography

Professor C.C. Chang was born in Taichung, Taiwan on Nov. 12th, 1954. He obtained his Ph.D. degree in computer engineering from National Chiao Tung University. He's first degree is Bachelor of Science in Applied Mathematics and master degree is Master of Science in computer and decision sciences. Both were awarded in National Tsing Hua University. Dr. Chang served in National Chung Cheng University from 1989 to 2005. His current title is Chair Professor in Department of Information Engineering and Computer Science, Feng Chia University, from Feb. 2005.

Prior to joining Feng Chia University, Professor Chang was an associate professor in Chiao Tung University, professor in National Chung Hsing University, chair professor in National Chung Cheng University. He had also been Visiting Researcher and Visiting Scientist to Tokyo University and Kyoto University, Japan. During his service in Chung Cheng, Professor Chang served as Chairman of the Institute of Computer Science and Information Engineering, Dean of College of Engineering, Provost and then Acting President of Chung Cheng University and Director of Advisory Office in Ministry of Education, Taiwan.

Keynote speech: Adaptive Dynamic Programming - A New Tool for Intelligent Control

Speaker: Prof., IEEE Fellow, Derong Liu, Institute of Automation, Chinese Academy of Sciences

Time: 10:30 -11:00, May 24, 2009

Location: Ballroom, 9th floor, Wuhan Bashanyeyu Hotel



Abstract- Adaptive Dynamic Programming (ADP) has received increasing attention recently. ADP scheme is a design that approximates dynamic programming in the general case, i.e., approximates optimal control over time in noisy, nonlinear environments. There are many engineering problems in practice which can be formulated as cost maximization or minimization problems. Dynamic programming is a very useful tool in solving these problems. However, it is often computationally untenable to run dynamic programming due to the backward numerical process required for its solutions. Over the years, progress has been made to provide approximate solutions to dynamic programming. The idea is to approximate dynamic programming solutions by using neural networks to approximate the cost function. The methodology is a very useful tool for building intelligent agents/controllers in almost any environment. This talk will review the theoretical development of ADP. Details about the training of the neural networks used in the present design will also be presented. The pole balancing (inverted pendulum) problem will be used as the benchmark in this presentation to show the applicability of ADP.

Bibliography

Derong Liu received the Ph.D. degree in electrical engineering from the University of Notre Dame in 1994. From 1993 to 1995, he was a Staff Fellow with General Motors Research and Development Center. From 1995 to 1999, he was an Assistant Professor in the Department of Electrical and Computer Engineering, Stevens Institute of Technology. In 1999, he joined the University of Illinois at Chicago, where he became a Full Professor of Electrical and Computer Engineering and of Computer Science in 2006. In 2008, he was selected into the "100 Talents Project" by the Chinese Academy of Sciences. He is coauthor of eight books.

Dr. Liu is an Associate Editor of Automatic. He was a member of the Conference Editorial Board of the IEEE Control Systems Society (1995-2000), an Associate Editor of the IEEE Transactions on Circuits and Systems-I: Fundamental Theory and Applications (1997-1999) and the IEEE Transactions on Signal Processing (2001-2003), and the Letters Editor of the IEEE Transactions on Neural Networks (2004-2008). Since 2004, he has been the Editor of the IEEE Computational Intelligence Society's Electronic Letter. Currently, he is an Associate Editor of the IEEE Transactions on Neural Networks, the IEEE Computational Intelligence Magazine, and the IEEE Circuits and Systems Magazine. He is an elected ADCOM member of the IEEE Computational Intelligence Society (2006-2008), Founding Chair of the Technical Committee on Adaptive Dynamic Programming and Reinforcement Learning of the IEEE Computational Intelligence

Society, and Past Chair of the Technical Committee on Neural Systems and Applications of the IEEE Circuits and Systems Society. He received the Michael J. Birck Fellowship from the University of Notre Dame (1990), the Harvey N. Davis Distinguished Teaching Award from Stevens Institute of Technology (1997), the Faculty Early Career Development (CAREER) Award from the National Science Foundation (1999), the University Scholar Award from University of Illinois (2006-2009), and the Overseas Outstanding Young Scholar Award from the National Natural Science Foundation of China (2008).

Keynote speech: Remarks on different reviews of Chinese character recognition

Speaker: Prof., IEEE Fellow, IAPR Fellow, Yuanyan Tang, Chair of Technical Committee on Machine Learning in IEEE Systems, Man, and Cybernetics Society (IEEE SMC)IEEE SMC Fellow Committee Member Chair Professor, Department of Computer Science, Hong Kong Baptist University

Time: 11:30 -12:00, May 24, 2009

Location: Ballroom, 9th floor, Wuhan Bashanyeyu Hotel



Abstract- This paper gives an introduction and remarks on two review papers for Chinese character recognition. One review is made by Chinese authors, another is from American scientists. They investigate Chinese character from different language environments; they do the research from different points of view.

Thus, a more comprehensive view on Chinese character recognition, which is an important branch of pattern recognition, can be provided to the readers. Meantime, one article pays attention to online process, and other paper deals with offline recognition, which complement each other.

Bibliography

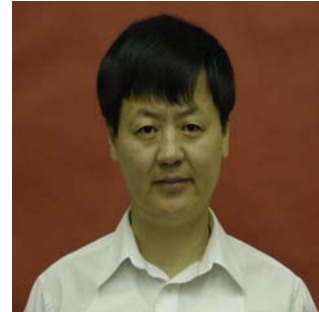
Yuan Yan Tang is an IEEE Fellow and IAPR Fellow, Chair of Technical Committee on Machine Learning in IEEE Systems, Man, and Cybernetics Society (IEEE SMC) IEEE SMC Fellow Committee Member, As well he is the Chair Professor of Department of Computer Science, Hong Kong Baptist University. He received a B.S. degree in Electronic & Computer Engineering at Chongqing University, China and an M.S. degree in electrical engineering at Beijing University of Posts and Telecommunications, China. He received his Ph.D. degree in Computer Science at Concordia University, Montreal, Canada.. His current research interests include Pattern Recognition and intelligent system, signal processing,image processing, Circuits and Systems, Computer Processing of Chinese and Oriental Languages, Wavelet Analysis and Its Applications etc. He published over More than 300 international publications, including 22 books/chapters, the number of citations is over 1500. He is the Life Member of Chinese Language Computer Society (CLCS), Co-founder of a new international research center (International Center for Wavelet Analysis and Its Applications) in China with researches in Mainland, USA and Taiwan, 2000, and founder of a new journal: International Journal on Wavelets, Multiresolution, and Information Processing (IJWMIP) 2001.

Keynote speech: Neurodynamic Optimization with Its Application to Model Predictive Control

Speaker: Prof., IEEE Fellow, Jun Wang, Department of Mechanical & Automation Engineering, the Chinese University of Hong Kong

Time: 11:00 -11:30, MAY 24, 2009

Location: Ballroom, 9th floor, Wuhan Bashanyeyu Hotel



Abstract- Optimization problems arise in a wide variety of scientific and engineering applications. It is computationally challenging when optimization procedures have to be performed in real time to optimize the performance of dynamical systems. For such applications, classical optimization techniques may not be competent due to the problem dimensionality and stringent requirement on computational time. One very promising approach to dynamic optimization is to apply artificial neural networks. Because of the inherent nature of parallel and distributed information processing in neural networks, the convergence rate of the solution process is not decreasing as the size of the problem increases. Neural networks can be implemented physically in designated hardware such as ASICs where optimization is carried out in a truly parallel and distributed manner. This feature is particularly desirable for dynamic optimization in decentralized decision-making situations arising frequently in robotics and control. In this talk, I will present the historic review and the state of the art of neurodynamic optimization models and selected applications in robotics and control. Specifically, starting from the motivation of neurodynamic optimization, we will review various recurrent neural network models for optimization. Theoretical results about the stability and optimality of the neurodynamic optimization models will be given along with illustrative examples and simulation results. It will be shown that many problems in robotics and control systems, such as robot motion planning and model predictive control, can be readily solved by using the neurodynamic optimization models.

Bibliography

Jun Wang is a Professor and the Director of Computational Intelligence Laboratory in the Department of Mechanical and Automation Engineering at the Chinese University of Hong Kong. Prior to this position, he held various academic positions at Dalian University of Technology, Case Western Reserve University, and University of North Dakota. Besides, he also holds a Cheung Kong Chair Professorship in computer science and engineering at Shanghai Jiao Tong University since 2008. He received a B.S. degree in electrical engineering and an M.S. degree in systems engineering from Dalian University of Technology, Dalian, China. He received his Ph.D. degree in systems engineering from Case Western Reserve University, Cleveland, Ohio, USA. His current research interests include neural networks and their applications. He published over 140 journal papers, 11 book chapters, 8 edited books, and numerous conference papers in the areas. He is an Associate Editor of the *IEEE Transactions on Neural Networks* since 1999 and *IEEE Transactions on Systems, Man, and Cybernetics – Part B* since 2003, a member of the Editorial Advisory Board of the *International Journal of Neural System* since 2006. He also served as an Associate Editor of

the *IEEE Transactions on Systems, Man, and Cybernetics – Part C* (2002-2005), a guest editor of the special issue of *European Journal of Operational Research* (1996), *International Journal of Neural Systems* (2007), and *Neurocomputing* (2008), He was an organizer of several international conferences such as the General Chair of the 13th International Conference on Neural Information Processing (2006) and the 2008 IEEE World Congress on Computational Intelligence. He served as the President of Asia Pacific Neural Network Assembly in 2006 and as a member of several IEEE technical committees over the years. He is an IEEE Fellow.

Part III Oral Sessions

Oral Session 1: Intelligent Systems and Applications

14:30-17:30, May 24

Paper ID	Paper Title	Author
45	A Kind of Exponential Inertia Weight Particle Swarm Algorithm	Qiang Li
1530	PCA-Based Analog Fault Detection by Combining Features of Time Domain and Spectrum	Chaojie Zhang
1635	Design for Multi-Machine Power System Damping Controller Based on Particle Swarm Optimization	Zhiyuan Duan
1766	A Tutorial on Characteristic Extraction and Description of Channel Reservoir	Junhua Zhang
1691	Multi-Parameter Control for Precalciner Kiln System of Cement Using Adaptive Dynamic Programming	Xiaofeng Lin
1677	BN Approach for Dimensional Variation Diagnosis in Assembly Process	Yinhua Liu
1807	Optimal Torque Based Fuzzy Logic Control Strategy of Parallel Hybrid Electric Vehicle	Yang Zhu
1953	CT Image De-Noising Using Wavelet Transform and Dynamic Fuzzy Logic	Guangming Zhang
4155	Segmentation for Satellite Cloud Image by Combining Fractal Features and Continuous Wavelet Transform	Changjiang Zhang
180	A Simple and Fast Particle Swarm Optimization and Its Application on Portfolio Selection	Wenjun Wang
489	On Computing Models of Internet Traveling Diameter	Ye Xu
1096	On Control System of the Cable-Supporting Parallel Mechanism Including Actuator Dynamics	Bin Zi
1136	Design and Research of Unconnected Point Numeric Recognition System Based on Neural Network	Yibo Li
1969	A Rough-Set Based Approach to Predict Consumers' Brand Preference	Nan Cui

Oral Session 2: Intelligent Systems and Applications

14:30-17:30, Sunday, May 24

Paper ID	Paper Title	Author
490	On a Distributed Fusion Algorithm in Oil Forecast	Ye Xu
1846	Modified PSO-FLAC Coupling Optimum Method and Application in Underground Engineering Design	Quan Jiang
1899	Adaptive Template Matching Based on Improved Ant Colony Optimization	Lianmei Yao,
1977	The Exploration of Buried Hill Reservoir By Multi-Scale Coherence Analysis	Junhua Zhang
4129	Design of Robust Controller of Interconnected Power System Considering Signals Transmission Delay	Zhiyuan Duan
1157	Influence of Cavity Effect on the Dynamic Performance of Resonant Vibration Cylinder Pressure Transducers	Dezhi Zhen
1542	Moving Object Detection Based on Edged Mixture Gaussian Models	Ying-Hong Li
1576	Robust Predictive Control for a Class of Uncertain Singular Time-Delay Systems	Lijie Wang
1672	The Optimal Control of Sugar Crystal Process Based on Action Dependent Heuristic Dynamic Programming	Xiaofeng Lin
1756	The Application Research on Fuzzy PI Control Arithmetic of Photoelectric Stabilized Platform	Huajie Hong
1792	A Bottom-Up Method for Facial Feature Extraction Using Active Shape Models	Min Jiang
4011	Weak Current Detection Technique for Electrostatic Droplet Ejection	Huilan Huang
4040	Research and Simulation on Multiplexed Movement Control of Subaqueous Robot Based on CMAC	Wenqiang Hu
4089	WF-LLL: An LLL Method Based on Whitening Filter for GPS Ambiguity Decorrelation	Ronghua Yang
4128-a	Design of Generator Synchronizing Device Based on PIC16F877 and FPGA	Xiao-Ying Zhang

Oral Session 3: Intelligent Systems and Applications

14:30-17:30, Sunday, May 24

Paper ID	Paper Title	Author
4128-b	Harmonic Suppression Using the Improved p-q Theory in the Power System	Cunlu Dang
181	An Improved Decision Tree Algorithm on Bayesian	Jing Xu
473	Wind Turbine Control Strategy at Lower Wind Velocity Based on Neural Network PID Control	Xingjia Yao
1113	An Efficient Activation Function for BP Neural Network	Jie Hu
11	Realization of Robot Communication System Based on Linux	Man Bao
510	An Object-Oriented Multi-Scale Retrieval Method for Image of Educational Resource	Shixi Tang
1679	A Design of the Automatic Anti-Collision System	Honghui Zhu
1721	A Vector-Control System Based on the Improved MRAS for PMSM	Huazhong Xu
1740	Building Learner Profile for Group Learning Recommender System from Learning Process	Xin Wan
4010	Design of Elite Sports Team Management Information System	Simin Li
4304	Prediction on the Future Passengers Touring the Three Gorges Dam Tourism Area	Youfu We
4333	A Brief Report to the Symmetry-Relationship Database Management System and its Application in Geomatics	Zhengcai Liu

Part IV Poster Sessions

Poster Session 1: Intelligent Systems and Applications

Chair: Prof. Junqi Wu

14:30-17:30, Sunday, May 24

Paper ID	Title	Author
24	Research of Electronic Patient Record Mining Based on Rough Concept Lattice	Weiping Ding
40	A 3D Color Measurement System	Henghai Fan
49	Adaptive Genetic Algorithm Simulating Human Reproduction Mode and Its Application in Multi-Peak Function Optimization	Tai-Shan Yan
122	Investigation on the Nonlinear Time Series Predication of Monitoring Data in Geotechnical Engineering	Jiawen Zhou
177	Systems Reliability Analysis and Fault Diagnosis Based on Bayesian Networks	Wenxue Qian,
337	Wave Reproduction Simulation for Road Simulator with Iterative Learning Control Applied to Nonlinear Plant Model	Bin Wang
474	Solution to 2D Rectangular Strip Packing Problems Based on ACOs	Chunyu Yuan
478	Combined Simulated Annealing Algorithm for Logistics Network Design Problem	Jin Qin
480	Insulators ESDD Predicting Based on Wavelet Neural Network	Jun Wu
482	Enhanced Genetic Algorithm for Selecting Traffic Counting Location	Chao Yang
504	A Supplier Selection Model Based on P-SVM with GA	Sheng Xu
524	Performance of a Low Sampling Rate RAKE UWB Receiver in Multipath Environments	Ai-Jun Liu
527	A Novel Automatic Weighted Image Fusion Algorithm	Le Song
530	Study on the Controlled Volume Method of Operation of Canal System	Zhiliang Ding
532	Generalized Possibilistic C-Means Clustering Based on Differential Evolution Algorithm	Fuheng Qu
544	PQPSO Algorithm in Multi-Stage Portfolio Optimization System	Yan Ma
552	Multi-Agent in Ant Colony Algorithm Approach for Solving Traveling Salesman Problem	Dong-Sheng Xu
784	New Methods of Transforming Belief Functions to Pignistic Probability Functions in Evidence Theory	Wei Pan
1029	Fuzzy Inference Trust in P2P Network Environment	Hongwei Chen
1039	A New Scheme of Gyroscope Free Inertial navigation System Using 9 Accelerometers	Fangjun Qin
1047	An Investigation on Image Segmentation Algorithm of Distantly-Viewed Trees	Yuqin Yan
1051	Face Recognition Based on WKPCA	Wenqing Ma
1055	Weighted Center Particle Swarm Optimization	Baokun Hu
1062	Image Corner Detection Technique Research on Machine Vision	Wei Wang
1072	Hybrid Artificial Fish School Algorithm Based on Mutation Operator for Solving Nonlinear Equations	Yongquan Zhou
1089	The Query Expansion Method Based on Semantic Skeleton	Wensheng Yin
1090	Automatic Recognition for Losing of Train Bogie Center Plate Screw Based on Multiple-Fuzzy Relation Tree	Peng Dai
1093	Study on the Behaviour of Access Domain PLC Channel with Low Rate, Low-Voltage	Shewen Sun
1101	Study on Prediction of Gas Emission by Data Fusion	Min-Ming Tong
1102	Robust Active Vibration Control of Flexible Structures Based on H/spl infinity/ Control Theorem	Jingjun Zhang
1105	Modified S-Plane Control of AUV Based on Motion Compensation	Lei Zhang
1147	Intelligent Learning Control of Electrohydraulic Proportional Variable Displacement Pump Based on Fuzzy Neural Network	Xiao Li

Paper ID	Title	Author
1149	IM-Based Communication Mechanism for an On-Line Monitoring System	Fenggui Wang
1160	Research of Autonomous Control Based on Multi-Agent for AUV	Xin Qian Bian
1505	A Material Control Modeling in MES System of Automobile Engine Assembly Line	Wei Zhou
1506	Fusion of Infrared and Visible Image Based on Genetic Algorithm and Data Assimilation	Liang Hong
1520	Joint Power Control and Channel Assignment in Wireless Ad Hoc Networks	Xiwen Hu
1527	Face Expression Recognition Based on Feature Fusion	Peng Wu
1529	The Elasticity Algorithm for Automated Route Design Based on Electronic Chart	Qing-Hui Tang
1585	Evolving Classification Rules by Unconstrained Gene Expression Programming	Jianwei Zhang
1592	An Influence Diagram for Maintenance Strategy Decision Making	Zhiqiang Cai
1593	Rough Sets Based Hybrid Intelligent Fault Diagnosis for Precision Test Turntable	Baiting Zhao
1629	One Reduced-Rank Blind Fresh Filter for Spectral Overlapping Interference Signal Extraction and DSP Implementation	Xiaohuan Li
1640	Robust Discrete Optimization for the Minimum Cost Flow Problem	Rui Mao
1645	Urban Short-Term Traffic Forecasting Based on Grey Neural Network Combined Model: Macao Experience	Yong-Dong Shi
1646	Analysis on Influential Factors for Meta-Level Control of the Anytime Algorithm for Dynamic WTA Problem	Peng Li
1652	Genetic Algorithm-Based Fuzzy Cluster Analysis for Flood Hydrographs	WeiShuai Cheng
1658	Improved Design of Remote Wireless Transmission Terminal using GPRS/GSM Integrated Network	Cheng Li
1669	A New Neural Network Approach to Machine Tool Thermally Induced Error	Wenjie Tian
1670	Synchronization of Neural Networks with Mixed Time-Varying Delays Based on Parameter Identification and via Output Coupling	Xiaozheng Mou
1716	Qualitative Simulation and Its Application Framework in Human Reliability Analysis	Long Li
1725	Multiscale Image Segmentation Using Markov Random Field and Spatial Fuzzy Clustering in Wavelet Domain	Xuchao Li
1755	A Fast Method for Building and Updating Background Model	Juan Zhu
1759	Ant Colony Optimization for Resource-Constrained Multi-Project Scheduling	Jin-Chao Zhao
1777	A WHD-Based Method for Printer Identification	Liang Huang
1793	A Hybrid Genetic Algorithm with Hyper-Mutation and Elitist Strategies for Automated Analog Circuit Design	Mingguo Liu
1819	An Adaptive Repulsive Particle Swarm Optimization for Makespan and Maximum Lateness Minimization in the Permutation Flowshop Scheduling Problem	Jingyu Qiu
1825	A Stereo Matching Algorithm based on Genetic Algorithm with Propagation Stratagem	Zhuoyun Zhang
1828	Application of DEA Cross-evaluation Model in Project Dynamic Alliance Subcontractors Selection	Honglian Yin
1833	An Improved K-Means Algorithm Based on Multiple Feature Points	Z. Wang
1866	A Extended DCCP Congestion Control in Wireless Sensor Networks	Yong-Min Liu
1872	Forecasting Method of Product Behavior Change Under Working Environment	Pengzhong Li
1890	Improved Differential Evolution Algorithm for Location Management in Mobile Computing	Wen-Hong Wang
1891	Research on Fiber Amplify Sources with Double Direction Pump for Fiber Optical Gyroscopes	Yanling Hao
1892	A Normalization Method Based on Rough Set Theory	Chu Jian
1894	A Novel Real-Coded Scheme for Evolutionary Analog Circuit Synthesis	Jingsong He
1915	A Improved Fuzzy Controller for Air-Condition with Frequency Change	Zipeng Zhang
1925	Tracking and Counting People in Complex Environment	Liqin Xue
1958	Attitude Control of Asymmetric Satellites on Polar Near-Circular	Wei Zhao
1960	A Many-Sorted Logic Model for Privacy Control Policy in Ubiquitous Computing	Mijun Kang
1972	Visual Navigation and Target Tracking Based on Dynamic Approach	Shiqiang Yang
1983	Application of Variable Structure Theory to Direct Field-Oriented Induction Motor Speed Controllers	Junhong Li
1994	Adaptive Backstepping Learning Control for a Class of Nonlinear Time-Varying Systems	Jin Zhao

Paper ID	Title	Author
2030	Restudying the Artificial Immune Model for Network Intrusion Detection	Xianjin Fang
4003	The Annual Runoff Forecasting Research Based on the Theory of Cointegration and Error Correction Model	Li-Ping Zhang
4004	The Simulation of Launch Vehicle Guidance System	Bo Guo
4078-a	Computational Study of Flow Around a Car Body	Xiangyun Liu
4085	Surface Roughness Prediction for Aluminum Alloy Wheel Surface Polishing Using a PSO-Based Multilayer Perceptron	Changlin Wu
4091	GIS Dynamic Service Technology Based on Mobile Agent	Min Peng
4125	A Hybrid Approach of Path Planning for Mobile Robots Based on the Combination of ACO and APF Algorithms	Xin Tan
4303	A Novel Feature Selection Approach Based on Swarm Intelligence	Zhiwei Ye
4306	Evaluation of Regional Sustainable Development Based on Particle Swarm Optimization	Sheng Chang
4309	IPSO Algorithm of Texture Segmentation Based on MRF Model	Huazhong Jin
4315	Fingerprint Verification Based on Ridgeline Representations	Wei Liu
86	Local Information Preprocessing of Engineering Equipments Based on Rough Set	Jianhui Liu
124	Risk Evaluation of the Electric Power Communication Network Based on Compatibility Rough-Fuzzy Set	Hui-Sheng Gao
138	Research Into Maximum Power Point Tracking Method of Photovoltaic Generate System	Chun-Xia Liu
157	Complex System Reliability Allocation Based on Fuzzy Decision Method	Hong-Bin Zhang
182	Nonlinear Dynamic Friction Compensation of Hydraulic Simulator	Yan-Liang Dong
226	Diagnostic Method of Causal Network Model Based on Swarm Intelligence Algorithm	Cunbao Ma
347	Non-Interacting Control of PMSM Based on Exact Linearization Via State Variable Feedback	Zhaojun Meng
349	Distributed ODV-CFAR Detection Based on Fuzzy Logic	Chengpeng Hao
454	Calibration Algorithm Based on Linear Feature Between Two-Dimensional Laser Range Finder and Platform	Jiancheng Li
464	The Approach Based on Dividing and Conquering for Non-Negative Matrix Factorization	Xiaobing Pei
472	Substation Plan Based on Improved Model and Adaptive Mutation Particle Swarm Optimization Algorithm	Zhiqiang Wang
477	A New Method Based on KFDA and SVM for Gait Identification	Jian Ni
485	A Hybrid Particle Swarm Optimization Algorithm for Multimodal Function Optimization	Jirong Gu
497	Design and Implementation of a Computerized Embroidery Machine's Controller Based on ARM and DSP	Changhua Lu
506	Improving the Performance of Fractional Order Differential Filter by the Fractional Sampling Delay	Zhu-Zhong Yang
525	A Multiple Criteria Decision Making Model Based on DEA/AR with AHP Preference Cone	Jianyong Liu
547	KPCA SVM with GA Model for Technological Achievements of College Students Forecasting	Jinhua Zhao
555	Coal-Rock Interface Recognition Based on Multiwavelet Packet Energy	Shuanfeng Zhao
788	A Tabu Search Approach for Distribution Network Reconfiguration Based on GIS	Xuejun Xu
790	Fuzzy Model Reference Learning Control for a Nonlinear Model of Hydrogenerator Unit	Daijian Ling
792	Study of Non-Destructive Measurement on Crop Nitrogen Nutrition Based on Mutual Information and PSO Algorithm	Tao Chi
1007	Kinematics Simulation to Manipulator of Welding Robot Based on ADAMS	Guojun Wen
1012	DSP-Based Control of the New Current Hysteresis PWM Rectifier System	Kexin Wei
1048	Target Detection Algorithm Based on Fractal Features of Variance	Wen-Ming Dong
1054	Dynamic Compensation of Pt100 Temperature Sensor in Petroleum Products Testing Based on a Third Order Model	Qingyang Lang
1058	Fault Detection Based on Data Mining Theory	Yagang Zhang
1094	A Model of High Voltage Electric Field Affects on Human Blood Based on LS-SVM	Jiang Qiang
1107	A Job Shop Scheduling Algorithm Using Chaotic Neural Network	Chang-Wu Wang
1119	Adaptive Control for a Class of Mismatched Uncertain System	Jianqing Min
1122	Adaptive Fuzzy Sliding-Mode Control for Direct Drive Electro-Hydraulic Servo Rotary Vane Steering Gear	Wenhai Su
1137	The Application of BP Neural Network to Bed Temperature Control System of CFB Boiler	Jingjian Wu
1159	A Military Maneuver Engineering Support Evaluation Model Based on ANN and Super-Efficiency DEA	Jianyong Liu

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1504	Research on Characteristics of Runaway Escapement Driven by Double-Slider Mechanism	Guang-Lin He
1511	A BBN-Based Approach for Fault Localization	Xuemei Liu
1512	MMAAS Based on Grey Prediction and Cloud Association Rules	Feng Mu
1553	Multimapping Chaotic Mind Evaluation Algorithm	Jianxia Liu
1556	Development of Automatic Visual Inspection Sensor in Robotic Tailored Blank Welding	Lei Zhang
1558	A Hybrid Fault-Tolerant Scheduling Algorithm of Periodic and Aperiodic Real-Time Tasks to Partially Reconfigurable FPGAs	Jin-Yong Yin,
1567	Intelligent Three-Dimensional Shape Recovery System for Shoes	Limei Song
1586	Estimating the State of Charge for Ni-MH Battery in HEV by RBF Neural Network	Hongyu Guo
1599	An Ant-Based Algorithm for Balancing Assembly Lines in a Mass Customization Environment	Zeqiang Zhang
1656	A Novel Naturally Sampled Space Vector Pulse Width Modulation Algorithm	Yuntao Yue
1665	Effect of Front Window Angle on The Automobile Dynamic Performances	Zhizhen Zheng
1681	An Novel Dynamical Multiscale ASM for Facial Feature Location	Gang Lei,
1685	Interactive Control for the Arm Rehabilitation Robot	Shan Liu
1695	A Hybrid Method of GA and ACO for 2-D Entropic Automatic Thresholding of Digital Images	Xiaohong Shen
1708	LIS-No-Classification Wavelet Image Coding Algorithm Based on Lifting Scheme	Guowei Tang
1722	Power Plant Equipment Performance Feature Reduction and Weight Allocation Based on Fuzzy Rough Set	Xiao-Feng Dong
1723	An Evolutionary ANN Based on Rough Set and Its Application in Power Grid Fault Diagnosis	Sheng Lin
1729	Study of Emotion Model on the Learner in the Network Environment	Liji Han
1761	Adaptive Determination Algorithm of Wavelet Decomposing Scale Based on 3 sigma Criterion	Li Su
1773	Research on Fine-Grain Cache Assignment Scheduling Algorithm for Multi-Core Processors	Benhai Zhou
1779	Location-based Services Applied to an Electric Wheelchair Based on the GPS and GSM Networks	Zhihong Tian
1802	Multi-Class Image Recognition Based on Relevance Vector Machine	Huilan Wu
1827	Immune-Based Data Fusion Mechanism in Wireless Sensor Network	Nan Zhang
1830	Particle Swarm Optimization Algorithm Based on Space Mutation and its Application	Shengli Song
1844	Temperature Control Strategies for Microwave Hot In-Place Recycling of Asphalt Pavements	Tongsheng Sun
1885	Locally Linear Embedding Algorithm with Adaptive Neighbors	Lingzhu Huang
1888	Study of Grey PID Control for Discrete System	Yulin Zhang
1912	An IRVS Based Human-Machine Interaction System Using Head-and-Eye Coordination Movement	heng He
1937	Study on Bi-Objective Traffic Counting Location Optimization Using Ant Colony Method	Yanping Du
4112	Stereo Matching Algorithm Using Population-Based Incremental Learning on GPU	Dong-Hu Nie
4139	Peanut Shape Recognition Based on Fourier Descriptor	Hong Chen
4142	The Improving of BP Algorithmic and Its Application in Robot' s FSM	Kuo Liu
4163	Research and Design of Filter in Ship-Based Passive Tracking System	Hui Chen
4001-a	An Application of Support Vector Machines in Cooling Load Prediction	Zhijian Hou
4065	Multi-Scale Soft-Threshold De-Noising of MEMS Gyro by Wavelet	Peipei Yang
4151	An Improved Fingerprint Segmentation Algorithm Based on Mean and Variance	Feng Wang
77	Application of Internal Model Control in Hydraulic Servo System	Tao Shi
98	Adaptive Control of Nonlinear Continuous-Time Systems	Lin Niu
101	A Dynamic and Self-Adaptive TCP-Friendly Congestion Control Mechanism in Next-Generation Networks	Wei-Yan Liu
111	Model Selection of Least Squares Support Vector Regression Using Quantum-Behaved Particle Swarm Optimization Algorithm	Xiang-Li Li
121	The Unemployment Rate Forecast Model Based on Neural Network	Guangming Wang

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150	Research on the Key technologies of Simulation Grid Resource Scheduling Based on Machine Learning	Xiaoming Xu
160	Study of a Prediction Model for Forest Fire-Initial Burnt Area on Meteorological Factors	Zhilin Qu
170	Self-Balance Control of Two-Wheeled Robot Based on Skinner's Operant Conditioning	Xiao-Gang Ruan
184	Evaluation of Enterprises Learning Capacity Based on BP Neural Network	Tian-Ying Jiang
193	Intelligent Fire Alarm System Based on Fuzzy Neural Network	Qiongfang Yu
201	The Upper Bound on the Number of Hidden Neurons in Multi-Valued Multi-Threshold Neural Networks	Nan Jiang
208	Optimization Design of 3-TPT Parallel Robot Based on ADAMS Simulation Technology	C. H. Li
209	Integrated GIS and Interactive Spatial Data Mining for Land Evaluation	Zelu Jia
449	Research on an Improved Evolution Algorithm and its Application in Function Optimization Problem	Juan Li
450	Research of Predictive Function Control of Basis Weight and Moisture Content	Zhongjun Xiao
465	Real Time Control Method Based on Fuzzy Logic for Autogenous Mill Power	Chong Liu
491	Intelligent Control on Work-in-Progress Inventory Based on Biological Modulation Mechanism	Jiang Wei
514	Design of the Inner Communication Bus in Underwater Detection System	Bo Li
516	Correspondence Analysis for Groundwater Quality System	Fu-Quan Ni
517	Decision Support System for Drinking Water Safety in Rural Area in Ya'an of China	Fu-Quan Ni
529	Synchronization of Neural Networks with Time-Varying Delays by Decentralized Linear Feedback	Zhongsheng Wang
533	Decision-Feedback Equalizer Based on Zeros-Order Statistics in Impulsive Noise	TianCheng Huang
536	Research on Sensor Management Algorithm of Midcourse Object Tracking	Bo Wang
537	Minimal Unembedded Renamable Horn Sets	Yongbin Qin
539	An Outlier Detection Method Based on Voronoi Diagram for Financial Surveillance	Jilin Qu
540	A Novel Feature Extraction Method - alpha-Based Supervised Orthogonal Projection Reduction by Affinity	Run Jiang
541	A Formal Refinement Method for Transactional Web Service Composition Compensation Based on Paired Petri Net	Xiaoyong Me
543	Generalized Rough Fuzzy Sets Based on Soft Sets	Feng Feng
548	Pneumatic Servo Ball & Plate System Based on Touch Screen and Oscillating Cylinder	De-Hu Yuan
550	Basic Properties of Balanced Triangular Norms	Xiaoshu Guo
781	Research on Work-in-Progress Control System of Integrating PI and SPC	Wei Li
782	New Differential Evolution Algorithm with a Second Enhanced Mutation Operator	Changshou Deng
800	Calibration System of Large Diameter Flowmeter Base on LabVIEW	MingJian Huang
1006	A New Level Measurement Method of Acoustic Standing Wave Based on Particle Filter	Jianjun Chen
1011	The Research on Torsional Predictive Control of Rotary Machine	Dongxiao Hou
1013	Optimal Inversion of Open Boundary Conditions Using BPNN Data-Driven Model	Mingchang Li
1041	Inertial Navigation Position Algorithm in Frequency-Domain with Gibbs Oscillation Restraining in Acceleration Signal Reconstruction	Guobin Chang
1043	Research on the Integration Interface Techniques for Library Management System and Campus Smart Card System	Hongying Peng
1057	An Adaptive Weighted Support Vector Machine	Limin Sun
1064	An Ontology-Based Framework for the Construction of Teaching Resource Library	Xiangsheng Yang
1065	Survivability Analysis of Integrative Emergency Communication Network for Power System	Qiang Gao
1067	An Efficient Materialized Views Selection Algorithm Based on PSO	Xia Sun
1078	Research on a Scale-Free Network with Tunable Clustering Coefficient	Qin Yang
1080	Research on Serial ATA Hard Disk Initialization	Wei Wu
1081	A Flexible CBR Tool for Intelligent System of Vehicle Body Conceptual Design	Wenbin Hou
1086	Three Sub-Swarm Particle Swarm Optimization Algorithm	Hui Sun
1087	The Algorithm of Data Repairing for Expendable Current Profiler Based on Neural Networks	Jichang Sun

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1083	Research on Customer Relationship Management Intelligent Decision-Making Mechanism of University Based on System Dynamics	Bing Liu
1088	A Large-Scale Open Space Emergency Evacuation Model	Jianfeng Li
1092	Tide Table Digit Recognition Based on Wavelet-Grid Feature Extraction and Support Vector Machine	Shuang Liu

Poster Session 2: Intelligent Systems and Applications

Chair: Prof. Fazhi He

14:30-17:30, Sunday, May 24

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1098	Application of an Integration of Uninformative Variable Elimination and Least-Squares Support Vector Machine for Discriminating Soy Milk Powder Based on Visual Near-Infrared Spectral Calibration: Discrimination of Milk Powder	Xiaojing Chen
1114	Multi-Document Summarization Using Clustering Algorithm	Xiao-Chen Ma
1116	Research on the Model of the Dispatching System of the Industrial Railway Based on GWFN	Jin Guo
1129	A Novel Algorithm Based on TOPSIS Group Ideal Solution for Adaptively Adjusting the Weights of Experts in Group Decision	Junying Wang
1146	Research and Implementation of Wushu Video Retrieval Based on Semantic	Yaqi Hu
1165	Toward a Comprehensive Evaluation of Effectiveness of Organizational Culture	Weiping Wu
1503	Application Research of an Improved HSIC Controller in Autonomous Soccer Robot Based on Omni-Directional Vision	Tian-Song Zhai
1508	Development of Hardware Driver for MATLAB/Simulink Real-Time Simulation	Lidong Miao
1516	Multi-Target Decision-Making of Saturation Attack for Anti-Ship Missile Weapon-Target Assignment	Fei Yang
1526	Optimal Retailer's Replenishment Policy under Multiple Stages Trade Credit Linked to Payment Time	Tao Liu
1535	Fault Diagnosis of Relay Control Circuit Based on Discrete Event System	Xing-Long Pan
1540	Optimization and Application Research of Wavelet Neural Network	Guihua Li
1541	Robot Simultaneous Localization and Mapping Based on Non-Linear Interacting Multiple Model	Yingmin Yi
1584	Adaptive Sliding-Mode Tracking Control Laws Applied to Fault-Tolerant Flight Control Systems	Zhi-Jun Yang
1587	Evaluation on Performance of the Tertiary Industry of Lucheng District in Wenzhou: A DEA Application	Ying Zhang
1588	Dynamic Polling Scheme of Network Fault Management Based on Cloud Model	Li Zhang
1595	Constructing Fuzzy System Directly from Numerical Data Based on GA	Zhao-Jun Shi
1603	The Analysis of Wind Gust Disturbances on the Cassegrain Antenna Pointing Accuracy	Guolong He
1605	Performance Evaluation of Enterprise's Marketing Team Members Based on BP Neural Network	Zhi-Qiang Ma
1622	An Improved Multi-Objective Genetic Algorithm Based On Pareto Front and Fixed Point Theory	Jingjun Zhang
1627	Color CCD Temperature Imaging	Rongbao Chen
1630	Study on CAD System for Float Valve Tray	Liang Sun
1631	An Algorithm of Coalition Structure Generation with Given Required Bound Based on Cardinality Structure	Shanli Hu
1633	A Mutation-Based GA for Weapon-Target Allocation Problem Subject to Spatial Constraints	Peng Li
1636	Study on Optimal Delivery Strategy Based on the Third-Party Storage Cost	Zhengchi Liu
1644	Decision Table Reduction Method Based on New Conditional Entropy for Rough Set Theory	Lin Sun
1664	Particle Filter-Weight Estimation and Dual Particle Filter	Pengpai Fan
1674	Study of Internal Model Control Based on Feedforward Compensation	Shu-Fen Qi

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1683	A Clustering Model Inspired by Humoral Immunity	Yuling Tian
1686	Fuzzy PID Control of the PH in an Anaerobic Wastewater Treatment Process	Jiayu Kang
1688	TOPSIS Algorithm with Optimal Weights and its Application on Enterprises' Performance Evaluation	Xiaorui Zhang
1693	Study on the Measurement Model of Product Customer Satisfaction Analysis System for Garment Enterprises	Guofu Li
1700	Generating New Chaos with a Switching Piecewise-Linear Controller	Jun Li
1701	Gradient Threshold Based Image Transition Region Extraction and Segmentation	Chengxin
1714	Self-Positioning via Machine Vision for Web-Based Tele-Operation of Pneumatic Manipulator	Shanfeng Chen
1718	Research on Rollover Early Warning Algorithm for Heavy Tractor- Semitrailer Based on PTR Metric	Tianjun Zhu
1719	The Road Friction Coefficient Estimation Based on Extended Kalman Filter	Tianjun Zhu
1742	Planning Model of Multi-Objective and Multi-Stage Material Reserve Based on Rough Set Theory	Zi-Li Zhang
1760	Research on Fast Charge Method for Lead-Acid Electric Vehicle Batteries	Siguang Li
1763	Laser Guided Measuring Robot Localization Using Wireless Network Technology	Wanli Liu
1769	Parameters Selection of Hybrid Kernel Based on GA	Y. Y. Meng
1772	Genetic Algorithm for Nodes Location in Wireless Sensor Network to Monitor Abrupt Geological Hazards	Hongwen Xu
1823	Research on Drivers' Understanding to Traffic State Information According to Their Individual Identities	Shoupeng Tang
1829	The Design and Research of Intelligent Interface System	Yanjie Yang
1832	Solve Zero-One Knapsack Problem by Greedy Genetic Algorithm	Yuxiang Shao
1840	Azimuth-Keeping Characteristic Analysis and Computer Simulation for a Dynamically Tuned Gyro Based North-Finder	hang-Song Yang
1843	Based on Data Fusion Multi- Data Sources Intrusion Detection Model	Min Li
1851	Quantitative Evaluation Model Based on Objective Weighting Methods to Evaluate the Indoor Air Quality	Yu Zhao
1860	Induction Motor Drive System Based on ADRC and PI Regulator	Liyang Liu
1865	A Dynamic Bandwidth Allocation Based Call Access Strategy of Wireless Multimedia Service	Changyuan Luo
1867	A General QoS-Aware Service Composition Model for Ubiquitous Computing	Qingcong Lv
1870	An On-Line Arterial Route Travel Time Prediction Application Using ANFIS	Miao Zhang
1871	Parametric Optimization and Harmonic Analysis on Damper Winding with Direct Time-Step Field and Circuit Coupling Finite Element Method	Xiaohe Ma
1873	Data Fusion Approach Based on High Precision Barometric Altimeter and GPS	Zhenhai Hao
1874	Fuzzy Synthesis Evaluation Procedure for Road Safety Level of Cities in China	Wei Sun
1883	Prediction of Groundwater Quality Using Combined Grey Neural Network Model	Changjun Zhu
1887	Railway Passenger Volume Forecast by GA-SA-BP Neural Network	Qing Chen
1895	Improvement of UKF Algorithm and Robustness Study	Zhong-Kai Mou
1896	A Multi-Agent Based Resource Discovery Scheme for P2P Systems	Yunsong Tan
1901	New Membership Transformation Method on Bridge Safety Fuzzy Evaluation	Kaidi Liu
1904	Research in Method of Complex System Reliability Evaluation Based-On Fuzzy Sets	Zhi-Xin Jia
1911	Design of Tax Management Information System	Bo Yan
1914	Layer Framework of Tax Management Information System	Bo Yan
1916	A Control Method of Tendency Surface Based on Cubic Polynomial	Yucheng Li
1919	Application of Soft Computing in the Control of Hydroelectric Generating Unit	Shuqing Wang
1930	The Integrated Ship Monitoring Systems: from Small Size to Large Size	Wangqiang Niu
1932	The Development of an Ultra-Precision Motion Control System Based on a Master-Slave Mode	Bojie Hou
1936	Performance Indexes for SCARA Type Robot	Pin Wang
1939	A New Possible Protocol Model for Next Generation Internet Based on Trustworthiness	Yong-Min Liu

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1940	An Interest-Based Recommending Framework of Folksonomies	Ruliang Xiao
1945	Aquifer Parameter Identification with Ant Colony Optimization Algorithm	X. He
1963	Identifying Solid-Fluid Parameters of the Subsea Tunnel Based on Evolutionary ANN	Annan Jiang
1967	Study on Technologies and Methods of the Traffic Safety Intelligent Warning Decision	Yin Zhu
1975	Research on Clamping Dexterity of Manipulator and Application of Minimally Invasive Surgery Robot	Lingtao Yu
1980	Reduced TCP/IP Protocol Implement in VHDL	Renbo Wang
1986	Utilization of Process Variation for System Evolution	Genbao Zhang
1987	Design and Realization of Dynamic Performance Detection Test Bench for Automatic Mechanical Transmission Electric Control System	Yiming Man
1989	A State Transition Model for Anti-Interference on the Embedded System	Yong-Hui Chen
1992	CMAC Neural Networks Based Combining Control for BLDC Motor	Zheng Li
1995	The Relationship Between Energy Consumption and Economic Growth in China Based on ANFIS	Xingping Zhang
2000	Research into the Evaluation of Distance Learning Support Service Based on Uniform Design and Nearest Neighbor- Clustering RBPNN	Shiyang Kang
2002	Flowfield and Dynamic Contact Computation of Thrust Vector Control System in a Certain Solid Propellant Rocket Motor	Wenzhi Liu
2009	Nonlinear Model Predictive Control of pH in Rolling Mill Wastewater Treatment	Wenfeng Wang
2028	Application of an Improved Analogical Reasoning Based on Similarity Measure Applied in Fault Detection and Diagnosis of Centrifugal Chillers	Yifei Wang
Ep-026	UML Design of Power Automation Human Machine Interface System Based on SVG and AJAX	Zhijian Qu
Ep-039	Research of RST Model Based on CWA and OWA	Xiaofeng Zhang
4001-b	Application of Temperature Fuzzy PI Controller Based on PLC	Zhijian Hou
4013-b	Particle Swarm Algorithm for the Shortest Bezier Curve	Shang Gao
4014-a	Method of Signal Timing Based on Bus Priority	Yuyang Zhao
4014-b	Calibration of Forced Lane Changing Model Based on Close-Range Photogrammetry	Yuqin Feng
4017	The Research Based on TMS320F2812 Full-Digital Inverter	Xuezhi Hu
4030	Obstacle Avoidance Method Study of Electric Wheelchair	Zhihong Tian
4035	Market Entry of Duopoly Wharf Enterprises at Container Port with Network Externality	Yu Tian
4036	Classification of Remote Sensing Agricultural Image by Using Artificial Neural Network	Haihui Wang
4037	Automatic Object Extraction Based on Fuzzy Mask	Haihui Wang
4038	Approach of Image Denoising Based on Discrete Multi-Wavelet Transform	Tongzhou Zhao
4056-a	A VPRS and NN Method for Wood Veneer Surface Inspection	Meng-Xin Li
4060	Research on the 10kV Resistive Voltage Transformer	Xiaohui Bao
4080	The Impact of Arm-Lever Effect Error Based Large Initial Misalignment Transfer Alignment Technology Study	Guoqiang Ding
4088	A Reservation Strategy Model of Finite Berth Based on Active Parking Guidance and Information System	Jun Yang
4113	The CAPM Applicability Study on Chinese Stock Markets	Ping Zhang
4114	Study on a New Approach of Harmonics Suppression Based on Fuzzy Controller	Shihong Wu
4119	Configuration and Kinematic Analysis of a Novel Hybrid Surgical Robot with a Ball Joint	Yan Diao
4134	Research on the Control of Mobile Robots in Network Based Teleoperation System	Q. P. Wang
4148	Design of New PID Neural Network Models for the Control of Vertical-Joint Industry Robot	Du-Kun Ding
4167	Study on Chaos Control for Nonlinear Power System	Mei-Ju Liu
4168	Effective Features Extraction Approach to Blind Steganalysis	Fan Feng
4300	Analysis for Elastic Modulus of Main Fill Materials to Stress Properties of High Fill Embankment Structure	Hui Li
4302	Computation on The Stability of Soil Cave Foundation Under The Role of Building Load in Karst Area	Echuan Yan

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4308	Design and Realization of Ammeter Management System of Electric Locomotive in Railroad	Yunyan Wang
4310	Learning Structure of Bayesian Network Using Ant Colony Algorithm Assisted by Genetic Algorithm	Xijun Li
4311	Research of the Environmental Applicability and Decision Aid System of Equipment Based on GIS	Xu-Bing Zhang
4313	The Simulation Analysis of Energy Price Shock and Business Cycle	Li Li
4316	Ridgeline Based 2-Layer Classifier in Fingerprint Classification	Wei Liu
4320	The Research of Routing Protocol in Ad Hoc Network: A Kind of Modified Protocol Based on AODV Protocol	Jun Tu
4324	3D Laser Scanning Technique and Pattern Recognition Algorithms for Rock Fracture Measurements	Weixing Wang
4325	Online Vision System and Measuring Parameters for Bubbles in Mineral Flotation	Weixing Wang
4329	The Construction of Urban and Rural Integrative Cadastral Management Information System	Mei Zhong
4330	The Discovery of the Basic Terrain Features Based on Integration Technology between GIS and Spatial Data Mining	Mei Zhong
4331	The Theory and Practice of Optimal Operation and Scheme Evaluation Technology for Water Supply System Based on Heuristic Algorithm	Lu Mou
4334	Orthorectification of TerraSAR-X Images Based on Precise Orbit Information	Rui Hou
4336	Study of Surface Reconstruction Based on Contours of CT Image Slices	Yudong Guan
4338	ALRS: Agent-based Literature Recommendation System	Lijian He
4352	Designation and Implementation of Tube Test System Based on Multi-Frequency Eddy Current	Jun-Zhe Gao
38	A DNA Algorithm of Horse Traversing Problem Based on Adleman Model	Yuan-Qing Zhao
51	A Pseudo-Parallelism Genetic Algorithm Framework to Optimization of Neural Networks	Shu-Hai Zhao
116	UAV Simulator-Based Simulation of Flight Control System	Guo-Dong Jin
127	Maximum Entropy Estimation of Distribution Algorithm for JSSP under Uncertain Information Based on Rough Programming	Lu Lin
161	Research on Application of 1-Wire Bus Technology in Long Distance and Multi-Spot Temperature Monitoring	Hongmei Xue
213	Random Viscosity Approximation Methods for Nonexpansive Mappings in Banach Spaces	Qiang Lin
224	A Gait Recognition Method Based on KFDA and SVM	Jian Ni
338	Medium-Long Term Prediction of Monthly Discharge at Xiangjiang River Based on Neural Network	Guohua Hu
346	Image Compression Based on a New Second-Generation Wavelet	Binglian Xu
467	Data Mining on Test Data of Physical Health Standard	Lan Yu
470	A Method for Multiple Attribute Decision Making with Incomplete Weight Information in Triangular Fuzzy Setting	Yuan-Yuan He
476	Research and Realization of RIA WebGIS Based on Flex	Linlin Wang
EP-68	Real-Time Control of Autonomous Underwater Vehicles Based on Fuzzy Neural Network	Fang Wang
780	Cascade Control for a Class of Process with Integrator and Time Delay	Chengqiang Yin
787	Image Segmentation Algorithm of Variable Precision Based on Granular Matrix Model	Xiaoli Hao
798	A Novel Method for Sorting Unknown Radar Emitter	Qing-Yun Wei
1025	Fault Diagnosis Model of Rotating Machinery Based on Artificial Immunity and Its Application	Jian Cen
1030	The Synchronization Problem Research of OFDM in FH Communication System	Zhongqiao Zheng
1052	Long-Term Vibration Trend Prediction of Rotor System State Based on Support Vector Regression and Discrete Wavelet Decomposition	Hang Xie
1077	Tactile Detection System Using PVDF Sensor	Xu Chen
1106	The Design and Realization of One-Stage Inverted Pendulum Based on Sliding Mode Control	Qiang Ma
1127	Influence of Temperature Gradient on Measurement Accuracy of BOTDR System	Qiu-Feng Shang
1135	Cellular Genetic Algorithms with Evolutional Rule	Yuming Lu
1164	A New Approach on Parameter Identification in 2-DOF Localized Nonlinear Vibrating System	Yong Wang
1502	Hybrid Intelligent Algorithm for Optimization Design of Annular Water Supply Network	Shanshan Wan

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1536	Technology Program Financial Forecast Model Based on CACO-SVM	Xiu-e Yuan
1554	Application of Fuzzy Algorithm Based on Similarity Degree in Hand-Shape Identification	Jingmiao Zhang
1609	Building Logistics Cost Forecast Based on High Speed and Precise Genetic Algorithm Neural Network	Meijuan Gao
1624	Fiber-Optic Ice Detection System for Aeroplane Application	Wei Li
1703	AHP Model and Fuzzy Theory Applied to Port Logistics Competitiveness Judgment	Xinlong Jiao
1704	A Semi-Physical Simulation of RR/S Attitude Algorithm	Guodong Fu
1707	Enhancement of Radiograph Images Based on Chaos Optimization	Yinjie Sun
1711	An Improved Method of Motion Detection Based on Temporal Difference	Shuigen Wei
1737	The Study on Precise Positioning Method of Autonomous Mobile Robot Based on Three-Point Location Principle	Shuai Guo
1910	Dam Safety Monitoring Forecast Model Based on CPSO	Lei Zhang
1924	Human Motion Tracking Based on Adaptive Template Matching and GM(1,1)	Xuhua Fang
1935	Application of Comprehensive Relational Grade Theory in Expert System of Transformer Fault Diagnosis	Jianpo Li
1962	Research on Optical Communication Network Based on GMPLS Technology	Ning Zhang
4043	KPCA Feature Extraction Based on CBPSO	Zhao Min
4305	A Visibility Judge Algorithm for Message Communication in Distributed 3D GIS Environment	Fang Wan
4321	Dimensionality Reduction in Webpage Categorization Using Probabilistic Latent Semantic Analysis and Adaptive General Particle Swarm Optimization	Yala Tong
522	Ant Colony-Based Multi-Path Routing Algorithm for Wireless Sensor Networks	Jing Yang
46	A Novel Analysis Method for Broadband Noise Signal	Wenyan Wang
62	Research of an Algorithm Based on Web Usage Mining	Shuyan Bai
64	AHP and Grey Relational Analysis of Synthetical Evaluation Index System of Grinding Process	Yuxun Liu
134	The Gas Frequency Conversion Speed Regulation System Based on Fuzzy Control	Chunhua Li
147	Application of an Intelligent Integrated Planning and Scheduling System for DHCR	Zhimin Lv
158	A Reliability Prediction Method of WEDM Based on Fuzzy Comprehensive Evaluation	Hong-Bin Zhang
174	Design of Multi-Model Controller Based on Neural Network Sets	Suyu Zhang
183	Measurement Instrument Design Based on Different Multi-Processors	Wenliang Niu
199	To Resolve Policy Conflict by Weight Constraint Rule Programming	Xin Li
200	Patent Property Appraisal Discussion in the Transaction Process of Intellectual Property Rights	Xueming Li
204	Application of Multi-Sensors Data Fusion in Dam Safety Monitoring	Hongsheng Li
447	On Generalized Fuzzy R-Subgroups of Near-Rings	Xueling Ma
455	Interval-Valued Fuzzy Reasoning with Interval-Valued Fuzzy Truth	QianSheng Zhang
466	Digital Design and Reliability Analysis of Reactor Power Control System	Chong Liu
493	Design of Inference Model Based on Activation for Fuzzy Cognitive Map	Wei Zhang
495	Study on Soft-Sensing Model of Tower Crane Load Based on Functional Link Neural Network	Quanmin Guo
499	An Adaptive Clonal Selection Algorithm and Its Applications	Guangzhou Chen
500	Improved SLM for PAPR Reduction in OFDM Systems	Lingyin Wang
502	Evaluation of Steer Simulation for China Coast Guard Ship in Narrow Waterway	Yufeng Yang
505	Common Lyapunov Functions for Stable Second Order Systems	Zheng Chen
520	An SFL-Based Multicast Routing Optimization Algorithm	Xia Sun
523	On the Construction of Knowledge Management System of Engineering Project Based on Project Flow	Liping Li
528	Real-Time Playing of Network Audio-Video System Based on DataSet	Jingfeng Zhang
545	A System Architecture Design Scheme of the Secure Chip Based on SoC	Luguo Zhang
554	DEA-Discriminant Analysis on Regional Knowledge Management Based on Data Mining Technology in China	Pengzhong Dong

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785	A Novel Fractional-Order Hyperchaotic System and its Synchronization via Feedback Control	Ping Zhou
786	Multi-Criteria Decision-Making Based on Fuzzy Number Intuitionistic Fuzzy Geometric Amelioration Operators	Yuxun Liu

Poster Session 3: Intelligent Systems and Applications

Chair: Prof. Wenbin Hu

14:30-17:30, Sunday, May 24

Paper ID	Paper Title	Author
789	Application of Virtual Instrument in Sewage Multi-Parameter Online Monitoring System	Huaigang Zang
791	Modeling and Simulation for an Aircraft of Seamless Aeroelastic Wing	ZhengPing Wang
803	Application of Adaptive Neuro-Fuzzy Inference System to Forecast of Microwave Effect	Ke Li
1008	Man-Machine Interaction in Virtual Machining Center	Linhong Xu
1016	A Routing Protocol Based on Flooding and AODV in the ZigBee Network	Zheng Sun
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4327	Research on Production Optimization Prediction Based on Gray Theory	Zhaoxia Zheng
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Part V Instructions for Presentations

Oral Presentation

Devices Provided by the Conference Organizer:

Laptops (with MS-Office & Adobe Reader)

Projectors & Screen

Laser Sticks

Materials Provided by the Presenters:

PowerPoint or PDF files

Durations of each Presentation (Tentatively):

Regular Oral Session: about 15 Minutes of Presentation, 5
Minutes of Q&A

Keynote Speech: 25 Minutes of Presentation, 5 Minutes of Q&A

Part VI Hotel Information

We have arranged the special discounted rates at the following selected hotel for the conference. The hotel and its rate are as follows. Please note that the conference will take place in Wuhan. We won't be able to guarantee you a room if you choose not to pay the deposit. We highly recommend that you book your accommodation as early as possible.

Conference Hotel: Wuhan Bashanyeyu Hotel



Address: No.786 Xin Minzhu Road, Wuchang District, Wuhan City, Hubei Province, China.

How to get to the hotel

8 km to Wuchang Railway Station, 40 km to Tian He Airport.

From the Tian He Airport:

Take a taxi to No.786 Xin Minzhu Road, Wuchang District, Wuhan (fee: about RMB 100. Time: 90 minutes)

From the Railway Station:

Take a taxi to No.786 Xin Minzhu Road, Wuchang District, Wuhan (fee: about RMB 15. Time: 10 minutes (Wuchang Railway Station) fee: about RMB 40. Time: 40minutes (Hankou Railway Station))

From the Long Distance Bus Station:

Take a taxi to No.786 Xin Minzhu Road, Wuchang District, Wuhan (fee: about RMB 8 Time: 10minutes)



Homepage: <http://www.hbbsyy.cn/>

Tel: +86-027-87735777; +86-027-87735888; +86-027-87735999

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Rate: Standard Room RBM 350/ night (about 50USD/night).

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