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Part I SMSEM2011 Conference Schedule

Friday, 22 April, 2011

9:00-19:00	Registration	International Academic Exchange Center of HUST
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Saturday Morning, 23 April, 2011

Time	Activity	Location
9:00-9:15	Opening Ceremony	
9:15-9:50	Keynote Speech: An Information Hiding Scheme Using Sudoku Speaker: Prof. IEEE and IET Fellows, Chin-Chen Chang,(Feng Chia University,Taiwan)	
9:50-10:25	Keynote Speech: Modeling and Optimization of Nonlinear Model Predictive Control Systems Based on Recurrent and Feedforward Neural Networks Speaker: Prof. IEEE Fellow, Jun Wang (The Chinese University of Hong Kong, Hong Kong)	Conference Room of the Building No. 8 (8号楼 学术报告厅)
10:25-10:40	Coffee Break	
10:40-11:15	Keynote Speech: Integrated Safety Mechanisms for the Distributed Computer Systems Speaker: Prof. Vadym Mukhin (National Technical University of Ukraine “KPI”, Ukraine)	
11:15-11:50	Keynote Speech: SYNERGY BETWEEN BIOLOGY AND MATHEMATICS: PAST, PRESENT, AND FUTURE Speaker: Prof. Matthew He (Nova Southeastern University, USA)	

Saturday Noon, 23 April

12:00-13:30	Launch Buffet	Lvyuan, Huazhong University of Science and Technology
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Saturday Afternoon, 23 April

Time	Activity (Coffee Break 15:50-16:10)	Location
14:30-17:30	Oral session	Room 312 of the Bulding No. 1

Saturday Evening, 23 April

18:00-20:00	Welcome Banquet	Lvyuan, Huazhong University of Science and Technology
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Sunday, 24 April

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

Part II Keynote Speeches

Keynote speech: An Information Hiding Scheme Using Sudoku

Speaker: Prof. IEEE and IET Fellows, Chin-Chen Chang (Feng Chia University, Taiwan)

Time: 9:15-9:50, April 23, 2011

Location: Conference Room of the Building No. 8



Abstract-Steganography is the science of secret message delivery using cover media. A digital image is a flexible medium used to carry a secret message because the slight modification of a cover image is hard to distinguish by human eyes. In this talk, I will introduce two methods: Zhang and Wang's method and Sudoku solutions. A selected Sudoku solution is used to guide cover pixels' modification in order to imply secret data. Because the number of possible Sudoku solutions is very large, the proposed method is more secure than Mielikainen's method and Zhang and Wang's method. From the experimental results, the visual quality of stego images produced by the Sudoku method is higher than 44 dB in average, which is slightly less than that of related works; however, the embedding capacity of the proposed method is 1.5 bit per pixel, which is greater than that of the related works.

Biography

Professor C. C. Chang was born in Taichung, Taiwan. He obtained his Ph.D. degree in computer engineering from National Chiao Tung University. His 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.

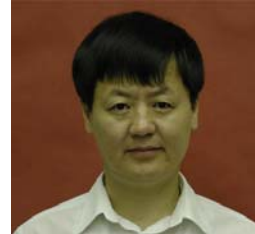
Professor Chang's specialties include, but not limited to, data engineering, database systems, and computer cryptography and information security. A researcher of acclaimed and distinguished services and contributions to his country and advancing human knowledge in the field of information science, Professor Chang has won many research awards and honorary positions by and in prestigious organizations both nationally and internationally. He is currently a Fellow of IEEE and a Fellow of IEE, UK. And since his early years of career development, he consecutively won Outstanding Youth Award of the R. O. C., Outstanding Talent in Information Sciences of the R. O. C., AceR Dragon Award of the Ten Most Outstanding Talents, Outstanding Scholar Award of the R. O. C., Outstanding Engineering Professor Award of the R. O. C., Chung-Shan Academic Publication Awards, Distinguished Research Awards of National Science Council of the R. O. C., Outstanding Scholarly Contribution Award of the International Institute for Advanced Studies in Systems Research and Cybernetics, Top Fifteen Scholars in Systems and Software Engineering of the Journal of Systems and Software, and so on. On numerous occasions, he was invited to serve as Visiting Professor, Chair Professor, Honorary Professor, Honorary Director, Honorary Chairman, Distinguished Alumnus, Distinguished Researcher, Research Fellow by universities and research institutes. He also published over 1000 papers in Information Sciences. In the meantime, he participates actively in international academic organizations and performs advisory work to government agencies and academic organizations.

Keynote Speech: Modeling and Optimization of Nonlinear Model Predictive Control Systems Based on Recurrent and Feedforward Neural Networks

Speaker: Prof. IEEE Fellow, Jun Wang (The Chinese University of Hong Kong, Hong Kong)

Time: 9:50-10:25, April 23, 2011

Location: Conference Room of the Bulding No. 8



Abstract—In this talk, a model predictive control (MPC) scheme will be presented for unknown nonlinear dynamical systems based on recurrent neural networks (RNNs). Two RNNs (i.e., the echo state network and the simplified dual network) are adopted for system identification and dynamic optimization, respectively. Based on an echo state network, the original nonconvex optimization problem associated with nonlinear MPC is reformulated as a convex one by means of decomposition via Taylor expansion. An online supervised learning algorithm is developed for estimating the unknown residual term resulted from the decomposition. To save time, offline supervised learning is also carried out based on feedforward neural networks for the parameter estimation. The proposed neural network approach has many desirable properties such as global convergence and low complexity. Simulation results are provided to demonstrate the effectiveness and performance of the proposed approach.

Biography

Jun Wang is a Professor and the Director of the 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. He also held various short-term visiting positions at USAF Armstrong Laboratory (1995), RIKEN Brain Science Institute (2001), Universite Catholique de Louvain (2001), Chinese Academy of Sciences (2002), and Huazhong University of Science and Technology (2006–2007). He has held a Changjiang Chair Professorship in computer science and engineering at Shanghai Jiao Tong University since 2008 on a part-time basis. 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, 12 book chapters, 8 edited books, and numerous conference papers in these areas. He has been an Associate Editor of the *IEEE Transactions on Systems, Man, and Cybernetics – Part B* since 2003 and 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 Neural Networks* (1999-2009) and *IEEE Transactions on Systems, Man, and Cybernetics – Part C* (2002–2005), as a guest editor of special issues 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 the Asia Pacific Neural Network Assembly in 2006. He is an IEEE Fellow, an IEEE Distinguished Lecturer, and a recipient of the Research Excellence Award from the Chinese University of Hong Kong for 2008-2009, Shanghai Natural Science Award (first class) in 2009, and the Outstanding paper Award of the *IEEE Transactions on Neural Networks* in 2011.

Keynote Speech: Integrated Safety Mechanisms for the Distributed Computer Systems

Speaker: Prof. Vadym Mukhin (National Technical University of Ukraine “KPI”, Ukraine)

Time: 10:40-11:15, April 23, 2011

Location: Conference Room of the Bulding No. 8



Abstract—The paper describes the security problems and challenges faced in a environment of distrubuted computing. There are shown the specifics of security mechanisms for distributed computer systems based on the modern security technologies and standards. The structure of the mechanism for the security risk minimization in the distributed computer systems is suggested. There are suggested the estimation of the level of security threats, the integrated estimation of damage due to the attacks on the vulnerability and the estimation for risk of the security threats realition. Also, there is suggested an approach to the risk analysis based on estimation of the risk factors of the security threats. Also, the special security risk matrix for risk minimization is suggested.

The main principles for design and the basic elements of security policy in distrubuted computer systems are described. A model of security policy for distributed computer systems is suggested. This model allows formulate and substantiate the main principles of security policy for administrating of the distributed computer systems.

Biography

Candidate of science, docent Muhin Vadim. The field of scientific researches – designing of information security systems, user and message authentication in computer systems, theory of risk for security monitor tasks, methods and approaches of security adaptive control in computer systems, designing of Security Policy for computer systems and networks. Is the author of 110 papers (3 of them are monographies, 1 guide certified by Ministry of Science, 2 pats). Trained 2 candidates of science, 12 MPhils. Took part in 40 scientific conferences in 8 countries around the world. Got ‘Soros pastgraduate’ prize in 1996.

Keynote Speech: SYNERGY BETWEEN BIOLOGY AND MATHEMATICS: PAST, PRESENT, AND FUTURE

Speaker: Prof., Matthew He (Nova Southeastern University, USA)

Time: 11:15-11:50, April 23, 2011

Location: Conference Room of the Bulding No. 8



Abstract—Although biology and mathematics have long been intertwined over the last half millennium, an explosive synergy between biology and mathematics seem poised to enrich and extend both fields and biomedical engineering greatly in the coming decades. The avalanche of biological data generated by contemporary high-throughput computational biology has changed the traditional landscape of biology. As a science, biology depends increasingly on data, algorithms, and models in virtually every respect. It is becoming more quantitative, more computational, and more mathematical. All three methods-quantitative, computational, mathematical-are spreading across the entire landscape of biological science, from molecular to cellular, organismic, and ecological. Two disciplines that have extraordinary potential to meet these biological challenges are mathematics, computer science, and bioinformatics.

Biography

Matthew He, Ph.D., is Full Professor and Director of the Division of Math, Science, and Technology of Nova Southeastern University, Florida, USA. He is Full Professor and Grand Ph.D. from the World Information Distributed University since 2004. He has been awarded as an Academician of European Academy of Informatization since 2004. He received the World Academy of Sciences Achievement Awards in recognition of his research contributions in the field of computing in 2003 and 2010.

Matthew He received his Ph. D. in Mathematics from University of South Florida in 1991. He was a research associate at the Department of Mathematics and Theoretical Physics, Cambridge University, Cambridge, England in 1986 and at the Department of Mathematics, Eidgenossische Technische Hochschule, Zurich, Switzerland in 1987. He was also a visiting professor at National Key Research Lab of Computational Mathematics of Chinese Science of Academy and University of Rome, Italy in 1998.

Dr. Matthew He has authored/edited 8 books/proceedings and published over 120 research papers in the areas of mathematics, bioinformatics, computer vision, information theory, mathematics and engineering techniques in medical and biological sciences. He is an editor of International Journal of Software Science and Computational Intelligence, International Journal of Cognitive Informatics and Natural Intelligence, International Journal of Biological Systems, and International Journal of Integrative Biology. He is an invited series editor of Biomedical and Life Sciences of Henry Stewart Talk “Using Bioinformatics in Exploration in Genetic Diversity”. He is a Chairman of International Society of Symmetry in Bioinformatics and a member of International Advisory Board of "International Symmetry Association (ISA). He is a member of American

Mathematical Society (AMS), Association of Computing Machinery (ACM), IEEE Computer Society, World Association of Science Engineering (WASE), and International Advisory Board member of Bioinformatics Group of International Federation for Information Processing (IFIP). He was an international scientific committee co-chair of International Conference of Bioinformatics and its Applications (ICBA 2004), a general co-chair of International Conference of Bioinformatics Research and Applications (ISBRA 2009), and a keynote speaker of many international conferences in the areas of mathematics, bioinformatics, and information science and engineering.

Part III Oral Sessions

Oral Session

Room 312 of the Bulding No. 1

14:30-17:30, Saturday, 23 April, 2011

Paper ID	Title	Author
575	Discriminative Training for Native Chinese Speakers' Pronunciation Proficiency Evaluation	Ke Yan
834	Stability Analysis for Uncertain Neural Networks of Neutral-Type with Interval Time-Varying Delays and Stochastic Perturbations	Guoquan Liu
316	Variational Iteration Method for Solving Differential Equations with Piecewise Constant Arguments	Qi Wang
803	LinDOS: A Linear Distraction Osteogenesis Simulation System for Maxillofacial Surgery based on FEM	Xiaodong Wang
822	Multidisciplinary Optimization of Autonomous Rendezvous Spacecraft Using Updated Analytical Target Cascading Method	Beibei Wu
580	Evaluation Oriented Acoustic Models Training for Computer Assisted Language Learning Systems	Ke Yan
187	Demand Analysis of Urban Institutional Service Resource for the Aged Based on System Dynamic—A Case Study of Beijing	Zhang Xiaomei
463	Novel User Scheduling Schemes Based on Nonlinear Precoding for Multiuser MIMO Systems	Cunyi Zhang
350	Simulation Analysis for Cancer Detection Based on Manifold Learning and Genes Characteristics	Rui Hou
292	Traffic Volume Forecasting Based on PSO-WSVM	Fei Xu
33	Fast identification algorithm of time-varying model parameter based on two-layer linear neural network learning	Kai Yang
791	A Morphological Analysis Method for Geological Bodies and Its Application on Three-dimensional Visualization Environment	Yanhong Zou
785	Application of Multidisciplinary Design Optimization to a Resource Satellite	Wenrui Wu
506	Simulation of a Single-radio Multi-channel Vehicular Node Structure for VANET in NS-2	Jie Wang
369	Lattice Boltzmann Simulation of High Reynolds Number Flow around Blade Hydrofoil of Tidal Current Energy Conversion Device	Shujie Wang

Part IV Poster Sessions

Poster Session

Chair: Prof. Huamin Wang

Room 312 of the Bulding No. 1

14:30-17:30, Saturday, 23 April, 2011

Paper ID	Title	Author
645	Man-made Object Detection Based on Texture Visual Perception	Cai Fei
677	Dynamic Load modeling Based on Extreme Learning Machine	Zhonghui Liu
906	Structural Damage Identification Based on the Modal Data Change	Jianhua Zhao
17	An Improved Particle Swarm Optimization Algorithm	Changyuan Jiang
102	Powerful Gear Shifting Control for all-rounders Truck with Automated Manual Transmission	Chen Yongdan
204	Task-driven Teaching Model of University Mathematics Based on Constructivism and Information technology	Ma Qiao-yun
297	Study on contact fatigue life prediction for clasp joint structure of mooring buoy	Daojia Du
310	Simulation-based optimization by combined direction stochastic approximation method	Zi Xu
390	Single Component, Multiphase Fluids Flow Simulation in Porous Media with Lattice Boltzmann Method	Xinming Zhang
402	Cooperative Spectrum Sensing Based on Biological Learning Mechanism in Dynamic Electromagnetic Environment	Qing Liu
430	A New Disassembly Network Graph Model and Its Automatic Generation	Jin Xiaohong
452	Real-time Flame Simulation Based on GPU	Wei Wei
490	Calculation of Failure Probability of Series and Parallel Systems for Imprecise Probability	Bin Suo
510	Simulation for Mixture of Archimedean Copulas	Shide Ou
562	Simulation of Novel Three-level Shunt Active Power Filter	Xinggang Li
609	An analysis of delay-dependent stability of boundary value methods for DDEs	Wenhao Li
665	Road network pattern classification using GEV distribution parameters	Chao Yang
707	Computing Method and Circuit Realization of Neural Network on Finite Element Analysis	Likun Cui
768	Fractional Ambiguity Function based Parameter Estimation of a Quadratic FM Signal	Qu Qiang
769	Identification and Equalization of Nonlinear Channel Based on ANFIS	Qu Qiang
770	Modeling of CNC Machine Tool Energy Consumption and Optimization Study Based on Neural Network and Genetic Algorithm	Dong Xie
773	Epipolar Geometry Estimation for Wide Baseline Stereo	Zhang Dazhi
786	Translating SQL Into Relational Algebra Tree Using Object-Oriented Thinking to Obtain Expression Of Relational Algebra	Xu Silao
829	Implicit Simulation for Three-dimensional Spatial Morphology of Geological Body Based on Marching Cubes Algorithm	Yanhong Zou
895	Particle swarm optimization with adaptive parameters and boundary constraints	Hui Niu
936	An Engineering Model for the Impact Breakup of the Space Target	Weijie Wang
994	Interior Ballistics Simulation of Modular Charge Gun System Using Matlab	Lingke Zhang
776	Almost sure stability of the split-step forward Euler method for stochastic delay differential equations	Xiaomei Qu
334	Measurement of Flux Linkage Characteristics of SRM	Chuntang Zhang

Paper ID	Title	Author
422	A Hybrid Process Modeling Method and Its Application in Equipment Support System	Yabin Wang
210	A Parameter Free Iterative Method for Solving Projected Generalized Lyapunov Equations	Yiqin Lin
71	The analysis for the two-stage model on scale-free networks	Maoxing Liu
97	Dynamics Modeling of the Planar double inverted pendulum	Wang Hongqi
165	Oscillatory Behavior of a Class of Second-order Nonlinear Dynamic Equations on Time Scales	Da-Xue Chen
184	A General Simulation Framework Based On CAN Bus For Satellite Design	Cheng Long
235	A Service-oriented Dual-bus BAM System Model	Yalei Yang
270	Reliability Analysis of Combat Architecture Model based on Complex Network	Wang Xiao-guang
280	Application of AC Algorithm Based on RS in Stock Index Prediction	Wang Xiao-guang
373	Influences of the Front Wheel Steering Angle on Vehicle Handling and Stability	Ren Chuanbo
524	Design and Study of Two-Dimensional Supersonic Projectile Inlet	Wei Wang
526	Modeling and Simulation of Parameter Self-tuning Fuzzy PID Controller for DC Motor Speed Control System	Chi Xue
666	Four-dimensional Vector Matrix Determinant and Inverse	A J Sang
731	Application of set pair analysis model based on entropy weight for comprehensive evaluation of water resources carrying capacity	Liang Ma
783	Investigation of Infrared Image Prediction for Subsonic Exhaust Plume	Fei Mei
788	Modeling and Testing of a Seamless Wing Trailing Edge Control Actuation System	Yuanyuan He
826	SVM based P2P traffic identification method with multiple properties	Yao Zhao
827	A Heterogeneous Agent-based Asset Pricing Model and Simulation	Haiying Ren
830	Simulation of Transient EMP Effects Coupling through Apertures using Sub-gridding FDTD Algorithm	Jin-shi Xiao
833	The Control and Model of Synchronous Generator on Ship	Le Luo
836	Coordination decisions of a two-stage supply chain with consumer returns policies under demand information update	Chenglin Shen
901	New Approach for software Modeling and Transformation	Jinwei Yu
983	Convergence of SAOR method for the linear complementarity problems	Shan Jiang
1015	Government Expenditures, Transfer Payments and Economic Growth	Lai Yue
1019	Reverse Supply Chain Management with Consumer Returns Policies under Demand Information Update	Chenglin Shen
126	The Control of Hexapod Parallel Mechanism	Pan Chun-ping
200	Simulation and Analysis of Microstrip Characteristics Based on the Finite Difference Time Domain Method	Jianbo Mao
252	On a GARCH Model with Normal Scale Mixture Innovations	Feng Feng
289	Study on model validation of logistics system based on Petri Nets	Zhang Guanxiang
333	Cellular Automaton Modeling Driver Behavior at a Single-lane Roundabout	Xiaoping Yu
457	The existence of homoclinic solutions for second order differential equation	Jie Gao
778	Harmonics Analysis Based on FFT of Special Hanning Interpolation Combined with Wavelet Transform	Yundong Cao
781	High-Accuracy Carrier Frequency Offset Estimation for MPSK Signals	Zhang Dong-ling
790	Research Advances on Multi-Scale Modeling of Properties of Cement-Based Materials	Haitao Zhao
796	Stability Analysis of Slope Based on Finite Element Method	Bo He
920	Comparative Analysis for the Equilibrium Bidding Strategies of the Standard Auction based on the Revenue Equivalence Principle	Lei Wang
866	The Cleaning Performance Simulation and Optimization of Rear Rolling Type Sweeper	Xueliang Bian

Paper ID	Title	Author
155	An Alternating Direction Implicit Method for Solving Projected Generalized Continuous-Time Sylvester Equations	Yiqin Lin
4	Green Functions for Sub-Laplacian on Half Spaces of the Heisenberg Group	Na Wei
21	Simulation of Cantilever Column under the Isolation Device Considering Additional Moment	Zhang Huaying
29	Numerical Study of a Combined Ventilation System for Residence and Office	Jianfang Chen
223	Multiple positive solutions of two-point boundary value problems for systems of nonlinear third-order differential equations	Zhongmin Sun
364	Meshing Method of High Precision FEM in Large Complex Structural Simulations	Yanhua Xue
372	Application of bifurcation method to the modified Benjamin–Bona–Mahony equation	Ming Song
445	Modeling Changing Graphical Structure	Fengjing Cai
489	Testing Coefficients of Autoregressive Conditional Heteroskedasticity Models by Graphical Approach	Fengjing Cai
535	The Application of the Intelligence Method in the Area of Pile's Health Detection	Xu Shaohua
615	Dynamic Characteristics Simulation for Lifting Mechanism of Dump Truck Based on Virtual Prototype	Rongchao Jiang
795	Fracture Mechanics Analysis of Functionally Graded Material Based on Finite Element Method	Bo He
797	CFD Numerical Simulation on Swirl-flow Combustion in Freon Decomposition Burner	Gao Hong
804	Estimation of one parameter exponential family Under a Precautionary loss function based on record Values	Haiping Ren
812	Option Pricing Under Stochastic Interest Rates	Haowen Fang
816	Empirical Bayes Test for Parameter of Inverse Rayleigh Distribution	Zhaoming Ding
838	Project-based Collaborative Group Teaching Mode and Application in Business Administration Undergraduate Education	Chenglin Shen
958	Estimation of Loss and Risk Function of One Parameter Exponential Distribution Based on Record Values	Haiping Ren
549	Simulation and Performance Analysis of FH Spread Spectrum Communication System under Repeater Jamming	Yu Zhang
550	The Design and Realization of the Networked Virtual Experiment Platform for Sensor Technology	Huifeng Wang
354	Research on Hierarchical Teaching Strategy of mathematical experiment for Agricultural universities	Dianli Cao
439	Evaluation of the College Classroom Teaching Quality based on Fuzzy Comprehensive Evaluation	Yawei Wang
657	Quantitative economic analysis of the industrial structure of coastal city of Shandong Province	Ma Hui
670	Formulas of expectation and variance of the cumulative processes of Markov skeleton processes	Dong Hailing
998	A Macromodel of Memristor using Symbolically Defined Devices	Jianhua Deng
999	Estimation of One-parameter Exponential Family Under Entropy Loss Function based on Record Values	Jinping Li
359	Some Inequalities of Partial Sums for Negatively Dependent Random Variables	Haiwu Huang
378	Heat Conduction Equation Finite Volume Method to Achieve on MATLAB	Xue Qiong
661	Research on P2P Service Discovery Model Based on QoS	Gao Xiaoyan
789	An Application of System Dynamic Approach to Urban Sustainable Development Evaluation	Hai-yang Shang
970	Dual-Brain Training Mode of Undergraduate Education in Business Administration	Shen Chenglin
12	Structural Topology Optimization Based on the Hybrid Cellular Automaton Method	Jianqiao Chen
178	Modeling and simulation for hydraulic system of separation device based on AMESim / simulink	Busuan Xu
190	The Investigation of Anti-swing Control for Floding-Boom Aerial Platform Vehicle	Yinglong Jing
322	Modeling, Simulation and Verification of Shrapnel Fragment Field	Chen Yan
407	On Synchronization for Complex Network with Nonidentical Nodes	Shao-hui Sun
525	A Modified Artificial Bee Colony Algorithm with Multi-Perturbation Strategy	Wei-Ping Lee

Paper ID	Title	Author
610	Research on Determination of Precise Satellite Attitude in Multi-Coordinates Based on Gyro and Star-Sensor	Kang Guo
633	Genetic-Particle Swarm Optimization outliers identification	Weiwei Wang
685	An Artificial Immune Diagnostic Network for Fault Location of Analog Circuits	Guo He
746	Analysis of Influence Factors to Simulation Precision in Numerical Manifold Method	Jiakun Gong
750	Research of Modeling and Simulation of Fiber Optical Gyroscope Temperature Drift error	Weijing Xie
820	Hardware Accelerated Real-Time Modeling of Fire Animation	Jianwen Fang
841	Comparison and Choice of Turbulence Models of Bluff Bridge Decks Based on CFD Method	Tianhua Jiang
910	Modeling and Design of High Power Half-Bridge LLC Resonant Converter	Gao Tian
42	Design of Single-Stage Power Factor Correction LED drive Power Supply	Gao Tian
61	Network Throughput Model of IPSec VPN Based Linux Operation System	Lei Li
70	Complexity Metrics for Software Architecture Based on Complex Networks	H.-B. Qin
81	Analytical Solution of Temperature Field for Cylinder Cooled and Heated by Semiconductor	Xiaofeng Liu
92	The simulation of ship motion in marine environment	Qu Kai
139	Model of BP Neural Network for Evaluation of Turfgrass Quality	Bo Xiao
174	Modeling and Performance Analysis of ARQ Protocol Based on CPN	Zhiqiang Zhang
315	Contract Design for a Drop-Shipping Supply Chain Coordination	Y.-J. Tu
343	Application of DNA 3D Self-assembly Algorithm on Maximum Clique Problem	Jingjing Ma
363	A XML-based MIB Data Modeling	Ma-kun Guo
382	A research based on multi-agent model of terrorist organization network	Li Ben-xian
424	Local Search Algorithm of Dynamic Pickup And Delivery Problem with Time Window	Xia Liu
435	An Improved Algorithm of Building Extraction Based on the Snake	Luo Weiqun
462	Numerical Simulation of Blast Furnace Hearth Erosion based on Boundary-fitted Coordinate Transformation Finite Difference Method	Ling Jian
544	Research of an Infrared Image Recognition Algorithm Based on BP Neural Networks and Invariant Moments	Wang Qi
588	Chinese Text Zero-Watermark Based on Verb Character	Meng Yingjie
608	Properties Analysis of Petri Net Based on Petri Net State Transition Graph	Ji-jun Zhang
624	An Improvement Protocol of WLAN MAC based on Fuzzy Logic Control	Li Sha
630	Modeling and Simulation of High Power Electromagnetic Wave Coupling to Computer Cabinet based on XFDTD in Time-domain	Jin-shi Xiao
794	Synthesis of transition gestures for chinese sign language vedio based on 3D model	Yingjie Jiang
646	A study of security issues in local storage and cross-domain communication of HTML5	Zhen Chen
681	Analog Fault Detection by Testing Dynamic Power Supply Current	Chaojie Zhang
720	Simulation Study on Construction Process of P.C. Continuous Rigid Frame Bridge	Xue Pengfei
753	Investigating of Dynamic Modeling and Simulating in Naphtha Pyrolysis	Shuo Cheng
798	Analysis on a Class of Fourth-order Rouge-Kutta Algorithm for Real-Time Simulation	Zhen Q.Huang
800	Analysis of Error Estimation and Continuous Runge-Kutta Formulae for Real-time Simulation	Zhen Q.Huang
806	Study on Reynolds Number Effect of Aerostatic Coefficients of streamlined bridge decks	Tianhua Jiang
824	A Lightweight Simulation System for Dynamic Resource Scheduling in Cloud Datacenter	Yuanliang Zhong
832	The choice between the Drop-shipping model and the traditional supply chain model with price-dependent demand	Li Ming

Paper ID	Title	Author
170	Score evaluation in graduation design of water and electricity power engineering speciality based on improved Grey statistics	Rui-lian Wang
260	Fatigue Life Analysis of CNC Milling Machine's Clamping Sleeve based on Finite-element Method	Li Zhen
415	Initial Value Problem of Second Order Integro-differential Equation on Half-line in Banach Space	Wang Jiayu
465	Study on Effective population of urban transportation trips	Yingjun Yang
496	The Research of Model-driven Development Method Based on Modeling Tools	Bi-sha Zhao
528	A Survey of Edge-derived Vertex Coloring	Shuli Liu
739	The Dispersed Algorithm Analysis of the Curved Surface Processed Model Based on Virtual Environment	Zhao Ling
774	Software Design of Smart HART Pressure Transmitter using UML	Hongpeng Wang
972	The Study on the Merger of Companies Based on the Bankruptcy Probability and Dividend	Wei Zhang
241	Research on selecting graduation design thesis system on network modeling based on UML	Max E.-P.Zhao
485	Investigation on Extended Number Field	Ma Ning
498	Heterogeneous Agent Models in Financial Markets	Hongquan Li
543	Practice and Investigation into the Syllabus and Model of Bilingual Teaching	Yuanyuan He
584	Simulation of new products diffusion process and profits in a duopoly market	Zhan Cai-cheng
48	Score evaluation in experiments of Principle of Automatic Control based on improved Grey statistics	Ruilian Wang
82	Research on Service Discovery Based on QoS in the Composition of Web Services	Zhou Min
138	Simulation Analysis of Fuel Consumption of The Equal Condition Based on AT and CVT'S Automobile	Danping Zhao
393	Numerical efficiency calculation of centrifugal pump	Ge Xin-feng
423	Optimal Model of Bus Frequency Based on Sojourn Delay of Bus-station	Zhilin Lu
469	Formalizing Battle Management Language based on Improved BNF	Guang-yu Bao
551	Key Technologies Research of Road Surface Data Management System of Chinese Typical Road	Hu-Ming Duan
557	Reduced Order Model for Aeroelastic Simulation Based on BEM Method	Xiaomin An
637	Study on the Influence of Buried Depth of Soft Soil on Bearing Behavior of Cement-soil Piles Composite Foundation	W.-L. Zhang
725	Simulation of the droplet multi-coupling drying process	Lili Zhang
755	Analysis of Distributed Network Management Model Based on Independent Self-organized Domain	Ma-kun Guo
764	Research on Assignment Problem Based on the Vogel Method	Zhang Lifeng
766	Coarse/ Precise Coordinated Control for the Compound Servo Platform for Linear Motion	Yu Zhandong
821	Propeller Load Characteristics Simulation of Pod Electrical Propulsion System	Jiang Yang
825	Analysis of Cloud Resource Allocation and Scheduling Policies in Cloud Datacenter	Jinan Hu
941	EFFECT OF DELAY ON SPATIOTEMPORAL SYNCHRONIZATION OF NEURONAL NETWORKS	Bing Shuqin
950	Research and Simulation of a Full-Scale Attitude Algorithm for Strapdown Inertial Navigation Based on a Rotation Vector	Yan Cao
964	Research on Feature Recognition and Extraction Based on NX System	Yan Cao
989	Application of genetic algorithm and neural network in construction cost estimate	Guangli Feng
1009	Radar Modeling and Simulation Based on ECM Test in System Counterwork	Wang Xiang
68	Based on Tourists Flow Prediction of Markov Chain Models	Fu Fang-jian
394	To develop the old age computer education under the life-long education idea	Fan Changxing
1005	Portfolio Risk Model Based on Dual Markov Regime Switching	Jia-peng Liu

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: 35 Minutes of Presentation, 5 Minutes of Q&A

Part VI Hotel Information

Conference Hotel: *International Academic Exchange Center of HUST*



International Academic Exchange Center of HUST is located at No. 1037 Luoyu Road in the campus of Huazhong University of Science and Technology (HUST).

Address: No.1037 Luoyu Road, Hongshan District, Wuhan, Hubei Province, China.

How to get to the hotel

10 km to Railway Station, 47 km to Tianhe Airport.

From the Tian He Airport:

Take a taxi to No.1037 Luoyu Road, Hongshan District, Wuhan (fee: about RMB 140. Time: 90 minutes)

From the Railway Station:

Take a taxi to No. 1037 Luoyu Road, Hongshan District, Wuhan (fee: about RMB 25. Time: 30 minutes)

From the Long Distance Bus Station:

Take a taxi to No. 1037 Luoyu Road, Hongshan District, Wuhan (fee: about RMB 25. Time: 15 minutes)



Homepage: <http://www.husthotel.com>

Tel: +86-027-87540188

Fax: +86-027-87540108

Rate: Standard Room RBM 338/ Night (8[#], about 60USD/Night).

Rate: Single Room RBM 328/ Night (8[#], about 50USD/Night).

请送我到:

华中科技大学国际学术交流中心 (8#楼)

Please take me to:

CONFERENCE HOTEL: International Academic Exchange Center of HUST, No. 1037 Luoyu Road, Hongshan District, Wuhan, China

Part VII Contact Us

Contact Information

Email: smsem2011@vip.163.com, smsem2011@vip.sina.com

Phone: +86-13659863351