

2011 International Conference on Mechatronic Science, Electric Engineering and Computer

(MEC 2011)

**Jilin, China
19 – 22 August 2011**

Pages 1-879



**IEEE Catalog Number: CFP1157N-PRT
ISBN: 978-1-61284-719-1**

Table of Contents

Sat-I-Session I: Power Electronics and Power Drives

The Characteristic Components of the Rotor Broken Based On MUSIC Method of Crosshigh-spectrum <i>Tian Wei,Zhao Yuming</i>	1
The Research and Application of Aircraft Maintenance Virtual Teaching & Training System <i>Xiaolin Quan,Shaochun Zhong,Feng Feng,Shusen Shan,Limin Qiao</i>	5
Permanent Magnet Synchronous Motor Control System Based on Auto Disturbances Rejection Controller <i>Dejun Liu,Changjin Che, Zhenxiong Zhou*</i>	8
Study on equivalent circuit model of partial discharge in Power transformers <i>Zeng De-wen, Cao Jian, Ding Jia-feng</i>	12
Cross-high-spectrum ESPRIT Algorithm and DSP Realization on Power Harmonics Detection <i>Yuhong Wang</i>	16
Measurement of PT Equivalent Circuit Model Parameters Based on Admittance Circle <i>Guo Zerong, Ji Lingling, Li Huabo,Wang Ting</i>	20
Fast Parallel Communication Technology of Power Battery Management System <i>Fan Zhongcheng, Zheng Hui, Xue Manling</i>	24
Application of Improved Elman neural network based on fuzzy input for Fault Diagnosis in oil-filled power transformers <i>Huida Duan,Dejun Liu</i>	28
A Novel Power Converter of High Voltage Switched Reluctance Drive <i>Runquan Meng,Yi Yang</i>	32
On Active Disturbance Rejection Control Technology of Precision Giant Magnetostrictive Actuator ... <i>Wu Meng,Zheng Hui, Fan Zhongcheng</i>	36
Experimental Study of Output and Ripple Voltagefrom a High Frequency Voltage Multiplying Rectifier under PWM Rectangle Waves <i>Yajun Wang,Jianing Liu</i>	40
Research on Drive Technology and Control Strategy of Electric Vehicle Based on SVPWM-DTC <i>Che Changjin,Qu Yongyin</i>	44
Research on the AC Servo System of CNC Machine Tools Based on Sliding Mode Variable Structure Theory <i>Xiuna Yu,Liyun Xing</i>	50
Double Loop Control for Magnetic Levitation Vibrator Based on Auto-Disturbance Rejection <i>Zhou Zhenxiong, Liu Dejun*</i>	54
Novel High-power Copper Electrolytic Rectifier based on Auto-Disturbance Rejection Controller <i>Liu Cheng, Qu Yongyin</i>	58
The Design and Research of permanent magnet synchronization electric machine vector control system <i>Bai lei</i>	62

Research of High Performance on PMSM Servo System	65
<i>Qu Yongyin, Cui Yang</i>	
Implementation of Motion Control Technique for Stepper Motor Translation Stages in Online Detection System	71
<i>Zurong Qiu, Shuai Shi, Xinghua Li, Lin Zhang, Wenrong Wu</i>	
On the Study of the Quality of Electric Energy of Switch Power Supply	76
<i>Li Xiaoling, Yuan Jimin</i>	
Optimization on Electrode of Gas Switch in High-power Pulse Modulation System	81
<i>Zhu Yichao, Li Hao, Luo Gen-xin, Qiu Shuang</i>	
A Study on STATCOM for Voltage Stability of Wind Power System	85
<i>Fang Li, Jia-feng Song, Meng Wang</i>	

Sat-I-Session II: Power Systems and Smart Grid

A Rule of Synchro Response Design for Squeeze Film Damper under Impact Loading	89
<i>Yang Qiu-xiao, Chu Yaxu, Fan Jiuchen, Wang Kaibiao</i>	
The whole dynamic decoupling AC Variablefrequency velocity modulation system of asynchronous machine with Adaptive Inverse Control	93
<i>Bai Jing, Ma Dandan, Wa Daliang, Zhang Yu</i>	
Reactive Power Optimization Based on Improved Social Cognitive Optimization Algorithm	97
<i>Gang-gang Xu, Luo-cheng Han, Ming-long Yu, Ai-lan Zhang</i>	
Power Battery Impedance Spectrum Test Technology Based on Current Pulse Excitation and Frequency Spectrum Analysis	101
<i>Jiang Feng, Xue Manling, Che Jinhui</i>	
Fault Diagnosis Method of Substation System Using 3/2 Connection Mode Based on the Rough Sets and Petri Net	105
<i>Wei-guo Li, Jin Li, Ao Gao</i>	
Fuzzy Adaptive Energy-saving Technology for static Hydraulic Grader	109
<i>Tao Lin, Shengjie Jiao, Xin Wang, Jianke Li</i>	
A New Algorithm for Power System State Estimation with PMU Measurements	114
<i>Defu Ni, Bing Yu, Weimin Zhang, Weiguo Gong</i>	
Identification of Vulnerable lines in Power Grid Based on Complex Network Theory	118
<i>Xi Zhu, Weimin Zhang, Bing Yu, Weiguo Gong</i>	
Dynamic Performance of Microturbine and Fuel Cell in a Microgrid	122
<i>He Wang, Guoqing Li</i>	
Rotor Bar Fault Feature Extraction of Induction Motor Base on FFT and MUSIC	126
<i>Wang Hongxi, Yang Weidong</i>	
Energy Saving and Emission Reduction Measures in Developed Countries and the Enlightenment to China	130
<i>Li Wei, Zhang Na</i>	

The Comparison of development of Sino-US low-carbon power industry	134
<i>Li Wei,Shao Dan</i>	
Analysis of dynamic characteristics and control techniques applied to permanent-magnet direct drive generator based on double time coordinate	138
<i>Tang Niang, Hao Jun-wei, Zhuo Shuang-ya, Xiao Xiang-ning</i>	
Achieving Monitoring of Buildings' Fresh Wind System by Applying Configuration Software	142
<i>Jia Xue,Wei Liming</i>	
Control Strategy of Distributed Generators in Microgrid	146
<i>Yu-yang Zhang , Ke-shuang Zhang , Wei-lian Sun , Fan Zhang</i>	
Simulation Technology Applied in the substation construction	150
<i>Li Shaohua,Yu Fusheng,Zhang Ying,Wang Zhen</i>	
Optimization design of the cascade system of dual-turbine hydrodynamic torque converter	154
<i>Chu Ya-xu,Cai Wei,Zhong Zinan,Sun Xuemei</i>	
Design and Implementation of Power Line Carrier Intelligent Home Appliance Control System	158
<i>Xin Zhang,Yihe Guo,Yonggang Gao,Jie He</i>	
Prospect and State on Power System Low Frequency Oscillation and the Prospect	162
<i>Tian-yu Chen,Meng Wang,Jia-feng Song</i>	

Sat-I-Session III: Control Theory and Its Applications in Power Systems

Linear Regressive Forecasting Parallel Control Strategy of the Ship Power Station	166
<i>Guichen Zhang,Jiqing He</i>	
Fuzzy Control of Grinding Force in Ultrasonic Aided Ceramic Grinding Process	170
<i>Jianzhong Li, Yuhui Zhao, Rongcheng Shan , Zuyuan Yu</i>	
Application of Fuzzy Controller in Drum Water-level Control	174
<i>Zhuo Wang,Qiang Wang</i>	
The Development of Electronically Controlled Engine Monitoring System Based on VB	177
<i>Tan De-rong,Wang jing,Liu Han-bo</i>	
Analysis and Design of Servo System On Multi-Position North-seeker	181
<i>Liu Chang,Zhao Yan,Shen Cheng-wu,Liu Shao-jin, Yu Shuai-bei</i>	
Novel Delay-Dependent Stability Criteria for T-S Fuzzy Time-Delay Systems	185
<i>Dawei Wang,Zejian Zhang</i>	
The intelligent down-shift control for wet dual clutch transmission	189
<i>Xiusheng Cheng,Yinshu Wang</i>	
Shape of object recognition based on RS-ANN for mobile robot	193
<i>Shuang Liu,Jie Dong,Xin Xing</i>	
Simulation Analysis of Congestion Control in WSN Based on AQM	197
<i>Shijun Zhao,Panpan Wang,Junhai He</i>	
Blind Source Separation Based On Fractional Fourier Transform	201
<i>JingHui Wang,Yuanchao Zhao</i>	

Simulation on TPMS Based On Neural Network PID Control	205
<i>Huadong Xu</i>	
Research of Irrigation Control System Based on Fuzzy Neural Network	209
<i>Guifen Chen,Lisong Yue</i>	
Design and implement a B/S model monitoring system of multi-layer soil temperature based on WCDMA	213
<i>Guifen Chen,Shuwen Jiang</i>	
Uncoiler Indirect Tensile Control System Research Based on the Active Disturbances Rejection Controller	215
<i>Zhang Guangrui, Yang Yihua, Wen Jianxin</i>	
Active Disturbances Rejection Controller ADRC Realization of Beer Fermentation Temperature Control System	219
<i>Wang Lin,Yang Yihua, Wen Jianxin, Zhang Guangrui</i>	
Parallel Evolutionary Method for Analog State Variable Transconductance Filter	223
<i>Yao Li, Xuehua Zhang,</i>	
The Study of Copper Electrolysis Rectifier System Based on PSO algorithm to Optimize PID parameters	229
<i>Xue Jian,Bai Jing</i>	
Research on the Value Control of Norm Force Machine Based on Fuzzy Control	232
<i>Shujing Sha,Xuecheng Zhang</i>	
Consistency of H_{∞} index and output variance constraints for descriptor systems	235
<i>Liu Sheng,Wang Wu-gui</i>	
A New MPPT Control Strategy	239
<i>Sun Jianping, Li Xiaozheng</i>	
An optimum layout scheme for photovoltaic cell arrays using PVSYST	243
<i>Sun Jianping</i>	
 Sat-II-Session IV: Network Theory and Communications	
The RFID-based Electronic Identity Security Platform of the Internet of Things	246
<i>Chen Bing, Dai Yuebo,Jin Bo, Zou Xiang, Zhou Lijuan</i>	
A Easy User Interface of IR System over Large Scale Deep Web	250
<i>Yimin Li, Chengjun Xie</i>	
A Network Intrusion Detection Method Based on Combined Model	254
<i>Cao Liying,Zhang Xiao xian,Liu He, Chen Guifen</i>	
Flow Limited and Risk Aware Routing Algorithm to improve performance of Wireless-Optical Broadband Access Network	258
<i>Wang Ziyuan, Du Shiyu</i>	
Design of laser carrier communication transmitter based on combined modulation	262
<i>Liu Shaojin, Wang Zhiqian, Li Jianrong, Liu Chang, Zhao Yan</i>	
ZigBee Mesh Network For Greenhouse Monitoring	266
<i>Na Pang</i>	

Design and Simulation of DRFM System Based on Digital Channelized Receiver and Transmitter	270
<i>Pengfei Tang, Shijian Guo, Zengping Chen</i>	
A Dynamic Threshold-based Packet Scheduling Scheme for Qos Sensitive Applications	274
<i>Ya-rong Hou, Yong Wang</i>	
Comprehensive Evaluation for Transmission Network Planning Scheme Based on Entropy Weight Method and VIKOR Method	278
<i>Nie Hongzhan, Yu Ting</i>	
The Application and Development of Internet of Things with its Solutions of Restrictive Factors	282
<i>Lin Ming-jie, Zhang Jin-guo</i>	
A survey: the progress of routing technology in satellite communication networks	286
<i>Deng Dexin, Zheng Zengwei, Huo Meimei</i>	
Study of Energy Media Control Protocol of Wireless Sensor Network	292
<i>Yunsheng Yang, Jing Zhang, Bin Zeng</i>	
A Novel DoS Detection Mechanism	296
<i>Yin Ke-xin, Zhu Jian-qi</i>	
Simulation on Email Worms Propagation	299
<i>Yin Ke-xin, Zhu Jian-qi</i>	
Design and Implementation of Intranet Search Engine System	302
<i>Yan Hongyin, Qi Xuelei</i>	
Hops Adaptive Algorithm for TCP Vegas in Mobile Ad Hoc Network	305
<i>Li Huang, Jian-de Lu</i>	
Design and Implementation of a Uniform Wireless OPC DA Server	310
<i>Xiaoping Zhou, Xiaoxuan Ma</i>	
A Distributed Anonymous Authentication Scheme for Mobile Ad Hoc Network from Bilinear Maps	314
<i>Zhang Tao, Yue Kang, Yao Jinkui</i>	
Design and Implementation of MCU and the Internet Communication System Based on GPRS	319
<i>Jiang Xiao-yu, Liu Zhong-xuan*, Chen Zuo, Pei Chuang, Zhu Yu</i>	
Application of Adaptive α - β Filtering Algorithm to Electronic Image Stabilization	322
<i>Huang Ying-qing, Jiang Xiao-yu, Liu Zhong-xuan*, Du Deng-chong, Yao Jun</i>	
Research for Key technologies of Internal instant messaging system Development	326
<i>Wang Xiao-yuan, Feng Xie, Wang Dong-lai*</i>	
Research on the Probabilistic Broadcasting Algorithms of Mobile Ad Hoc Network Based on Percolation Theory	330
<i>Wang Gang, Zhang Xiaorong, Cang Haitao, Li Lizhi</i>	
A Data Collecting and Processing Method in High-speed Network Based on Cluster	334
<i>Yue Gao, Shuying Zhang, Shuangli Wang</i>	
Study on Emergency Distribution Route Decision Making	338
<i>Qingfeng Sun, Fansen Kong, Ling Zhang, Qingfeng Sun, Xiangwen Dang</i>	

Design and Implementation of Emergency Evacuation Information System based on the Internet of Things	342
<i>Qingfeng Sun, Fansen Kong, Ling Zhang, Qingfeng Sun, Xiangwen Dang</i>	
Design and Implementation of Access and Control Method for NetMagic	346
<i>Qi Su, Yijiao Chen, Chunbo Jia, Zhigang Sun, Tao Li</i>	
Research on Key Technology of Savant Middleware in the Internet of Things	350
<i>Yin Laiwu, Chen Deyun, Fu Xin, Wang Donglai</i>	
Research on Key Technology of Internet of Things Based on FRID	355
<i>Yin Laiwu, Chen Deyun, Zhu Hongwei</i>	
Research on Resource Sharing Communication Model in LAN Based on P2P	359
<i>Hui Xie, Xiaoying Wang, Weitong Huang</i>	
Analysis of the Effect of Transmitting Beam on the BER Performance of FSO Communication System	363
<i>Wu Xiaojun, Wang Hongxing, Liu Min, Song Bo</i>	

Sat-II-Session V: Electronic Systems and Components

A Design of On-Line Intelligent Lock of Anti- Maloperation System	367
<i>Wang Yi-jun ,Zhang Bi-chi, Ni Jun-long, Wei Sheng-biao</i>	
Ordering heuristics for singleton arc consistency	371
<i>Chuiliu Kong, Shimei Xing</i>	
SGCMG Design and Time Accumulation Error Analysis	375
<i>Wei Xu</i>	
A Study on Electrorheological Fluid-assisted Polishing of Tungsten Carbide	380
<i>Zhao Yunwei, Geng Dexu, Liu Xiaomin, Zhang Jintao</i>	
Template Based Three Dimensional Parametric Design of Optical Fiber Dispenser	384
<i>Ma Baoji, Jin Xiaoli</i>	
Design and Realization of the Intelligent Temperature Transmitter	388
<i>Hai Sun, Yimin Li, Feng Jiang</i>	
The Reverse and Forward Gate-diode Drain Current in ultra-thin LDD nMOSFET's	392
<i>Chen Haifeng, Du Huimin</i>	
Effect of Substrate Negative Bias on GIDL Current in LDD nMOSFET's	396
<i>Chen Haifeng, Du Huimin, Guo Lixin</i>	
The Design of Analog Video Data Grabber System Based On TMS320VC33 and SAA7111A	399
<i>Geng Tian-wen, Wang Zhi-qian, Liu Shao-jin, Li Dong-ning, Yu Shuai-bei</i>	
The Application of template matching arithmetic on Strap-down North Seeking System	403
<i>Li Dong-ning, Zhu Wei, Chen Tao</i>	
Analysis of atmospheric pressure and temperature changes on the image quality of aerial camera	406
<i>Dong Bin, Tian Hai-ying</i>	
Study about Single-Pole Adaptive Reclosure of Transmission Based on Sample Entropy	410
<i>Bing Wang, Yan-ru Jiang, Yu-zhuo Fei</i>	

Research on Damage Passive Monitoring of Eccentric Compression Concrete Columns Based on Piezo-electric Sensors	414
<i>Yanyu Meng, Shi Yan</i>	
The Development and Application of a Testing System of Reaction Time Based on Mesopic Vision	418
<i>Shen Tong, Zhao Jiandong, Li Haoran</i>	
The Design and Implementation of a BF561-based Binocular Image Acquisition System	421
<i>Zhangsheng He, Zhen Wang, Chunjie Ouyang</i>	
Influence of Solid-solution Treatment on Corrosion Performance of Cast AM50 Magnesium Alloy	425
<i>Yang Miao, Liu Yaohui, Jin Hongzhe, Song Yulai</i>	
The Research on the Detection Method of Belt Deviation by Video in Coal Mine	430
<i>Zhu Aichun*, Hua Gang, Wang Yongxing</i>	
Moving Object Segmentation Based on Background Subtraction and Fuzzy Inference	434
<i>Xiao Lijun</i>	
A Low-Noise CMOS Interface ASIC for Capacitive MEMS Accelerometer	438
<i>Yuntao Liu, Ying Wang, Songsong Gao, Lei Shao, Yuntao Liu</i>	
Application of Virtual Instrument in Vehicle Detection System	442
<i>Zhao Hongyu, Xu Chunyan, Li Yimin</i>	
Migration of ThreadX Operating System on Cortex M processors	446
<i>Li Laichun, Meng Wei, Jiang Feng, Li Yimin, Wang Mingqian</i>	
Design, Application and Maintenance of HTR-10 Full Digital Safety I&C System	450
<i>Wei Liqiang, Liu Ling, Yang Zijue</i>	
Compound tracking in ATP system for free space optical communication	454
<i>Zhang Min, Liang Yanbing</i>	
Harmonic Detecting Method Based On Improved Average Current	457
<i>Wei Liming, Jing Hui</i>	
Sliding Mode Variable Structure Optimized Control for Micro-Air-Vehicle Attitude Control Systems ...	460
<i>Liyun Xing, Xiuna Yu</i>	
Topic Detection Based On Keyword	464
<i>Liang Yue, Shibin Xiao, Xueqiang Lv, Tao Wang</i>	
Comparison Methods for High Accuracy nano wood fiber Strain Measurement with the Errors Analysis	468
<i>Mingbao Li , Jun Cao, Jiawei Zhang, Na Zhang</i>	
Remote Data Acquisition System based on Fiber Transmission	472
<i>Li Chun-zhi, Shen Chuan</i>	
Fractal Features of Cracking of Self-monitoring Asphalt Concrete	475
<i>Changjun Sun,, Shaopeng Wu, Ning Tang, Guoliang Sun, Lei Chen, Shaoxu Huang</i>	
Optimized Anchor Nodes Placement for Underground Mine Localization System Based on ZigBee Technology	478
<i>Dejun Wang, Honghong Feng, Tianliang Xing, Jianan Sun</i>	

IBC System Based On near-field electrostatic coupling	482
<i>Shan Chuanwen, Jin Hongxin, Jian Chunying</i>	
Cyclic Stepping Spectrum Sensing based on Energy Detection	486
<i>Haiyuan Liu, Yongjiao Liu, Yue Huo</i>	
Data Acquisition System for Energy Management Based on OPC Protocol	490
<i>Xing Jisheng, Bai Jing, Niu Guocheng, Pu Tiecheng</i>	
Development of FPGA-based Arithmetic Module in CNC System	494
<i>Mulan Wang, Baosheng Wang, Xinghua Zhu, Xiaoxia Li</i>	

Sat-II-Session VI: Equipment Control and Industrial Design

Research on Dynamic Range Control used to Audio directional system	498
<i>Jicai Liang, Song Gao, Yi Li</i>	
Research on Dual-Thumb Pneumatic Flexible Robot Hand	502
<i>Geng Dexu, Liu Xiaomin, Zhang Jintao, Zhao Yunwei, Zhang Guilan</i>	
The Research on the New Ultra-Precision Polishing Instrument of the Internal Surface in the Elbow ..	507
<i>Zhang Yao-juan, Liu Wei-na, Yang Li-feng</i>	
A New Measurement Technology of Synchronous Sampling Based on Flying Capacitor	511
<i>Xue Manling, Jiang Feng, Che Jinhui</i>	
Design for Main Support of Long Focal Length Space Camera	515
<i>Gan Xinji</i>	
Study on a New Adjustable Hydraulic Positioning System	519
<i>Zhang Yaqin</i>	
The Remote Terminal Design and Implementation of 1553B Based on DSP	524
<i>Chen Xihui, Leng Xue, Li Wenming, Zheng Lina</i>	
Development Situation and Trend of Domestic and International Aerial Mapping Camera	527
<i>Li Wenming, Leng Xue, Chen Xihui, Li Qingjun</i>	
The Positioning Precision Analysis of the Ball Screw Drive System	531
<i>Huiduan Zhang, Junling Sun</i>	
Effects of the Crosscorrelation on Track-to-Track Association	535
<i>Wanquan Liu, Yulin Xin, Shijian Guo, Zengping Chen</i>	
Theoretical Analysis of an MRF Damper on Milling Chatter Control	539
<i>Yan Zhanhui, Guan Tieying</i>	
Flight Control System Design for a Small Size Unmanned Helicopter	543
<i>Wang Zhen, He Zhangsheng</i>	
The application of unascertained mathematics in energy- saving assessment of construction management process	547
<i>Lin Wang, Xianli Wang, Bin Zhang, Mo Liu</i>	
Simulation of Evacuation Based on Multi- Agent and Cellular Automaton	550
<i>Kan Zhiqiang, Yu Chongchong*, Tan Li, Wang Jingyan</i>	

Model-based Friction Compensation Scheme for the Linear Inverted Pendulum	554
<i>Yu-zhu Zhao, Lian-Kui Qiu, Yan-xia Zhang</i>	
Force Impedance Control of a Robot Manipulator Using a Neuro-Fuzzy Controller	559
<i>Negar Kharmandar, Amir A. Khayyat</i>	
Analyzing of Tri-axis Differential In-pipe Robot with Adaptive Differential Capability for Moving inside Pipelines	564
<i>Xinghua Gao, Shengyuan Jiang, Xudong Jiang, Huiling Sun</i>	
The Hardware Construction and Algorithm Design of Control System in Small Unmanned Gyroplane ..	568
<i>Bohu Zhang, Hui Xu</i>	
Experimental Analysis of In-Pipe Robot Accelerated Life	572
<i>Zhang Xuewen, Yang Qiuxiao, Fan Jiuchen, Jiang Shengyuan</i>	
The Development of Intelligent Measurement and Control System about the Test and Experimental Platform of Hydraulic Pump Performance	576
<i>Li Zhongshan, Zhang Jintao, Zhang Yaojuan, Zhang Yufeng</i>	
Long-range monitoring system of irrigated area water-use based on Multi-Agent	580
<i>Tinghong Zhao, Rui Ding, Zibin Man</i>	
An Improve Self-adaption NGA with Predator	584
<i>Tinghong Zhao, Guihua Li, Yu Wang, Zibin Man</i>	

Sun-I-Session VII: New Mechanism Design Systems

The Development of Air Conditioning Condensing Heat Recovery and Energy-saving Device	588
<i>Li Zhixiang, Xie Yi, Li Hengwu</i>	
Design of an Intermittent Escape Apparatus Used in High-rise Buildings Based on Escapement Mechanism	591
<i>Zhanguo Zhang, Xiaoyong Liu</i>	
Improvement of Heating System for Hot Pressure Mould	595
<i>Zhang Chizhong, Li Dongmei</i>	
Development on High Frequency Centrifugal Deicing Vehicle	599
<i>Hongzhou Li, Jie Lu, Jiuchen Fan, Xiuguo Lv</i>	
Development on Rehabilitation Instrument of genu varum and genu valgum based on biomechanics ...	602
<i>Hongzhou Li, Jie Lu, Jiuchen Fan, Xiuguo Lv</i>	
Start-up Characteristics of a Capsule Micro Robot Applied in Intestine	605
<i>Jie Lu, Hongzhou Li, Yongshun Zhang, Xiuguo Lv, Lai-fa Xiao</i>	
Dynamics Simulation Analysis on Guiding Mechanism for Cable Climbing Robot	609
<i>Jie Lu, Hongzhou Li, Xuemei Zhang, Xiaofa Lai</i>	
Mechanical Characteristics Analysis on PAM with Elongation and Torsion	613
<i>Liu Xiaomin, Wang Yiqiang, Geng Deru, Zhang Jintao, Zhao Yunwei</i>	
A Springback Reduction Method for Sheet Metal Bending	617
<i>Hu Kan, Zhang Hailing,</i>	

A Study on Tool Assembly Algorithm of Stamping Forming Simulation	621
<i>Zheng Guojun, Ma Fangwu, Men Yongxin, Hu Ping, Fan Rong, Zhao Fuquan</i>	
Research on real-time location-tracking of underground mine locomotive based on wireless mobile video	625
<i>Yu Guofang, Kou Liqiang, Zhang Yujie</i>	
The Research and Development of the Portable Picking Device for Pine Cones	628
<i>Li Jian-yong, Zhang Yao-juan, Wang long, Zhu Jia-lin</i>	
The Development of Rotation Investigation Wall-climbing Robot	632
<i>Li Jian-yong, Lv Xiang-yan, Zhang Yao-juan, Zang Jing</i>	
Optimization design of urban sewage source heat pump system with freezing latent heat collection	636
<i>Jianfeng Qian</i>	
Supplier selection method based on group decision making problems with alternative preference information in form of ordinal interval	640
<i>Zhang Enyuan, Zhang Bin</i>	
Research on auto-filling hole based on mesh information of car body panel	644
<i>Zhang Enyuan, Liu Ruijun*</i>	
Improvement of Bumper Structure for Pedestrian Lower Leg Protection Based on Euro-NCAP	648
<i>Weihai Liu, Xiusheng Cheng, Yong Shan, Hongjian Li, Haiqing Yang</i>	
Based on the Spectrum of Long-period Fiber Grating in Liquid Level Measurement	653
<i>Wang yan, Li Dan, Zhao Xiaoping, Hu Xingliu</i>	
Study on Control of Giant Magnetostrictive Piezoelectric Hybrid Actuator	657
<i>Zheng Hui, Wu Meng, Wang Chengxi*</i>	
The Application Of New Fresh Air Antifreezing Winter Heating Air Conditioner	661
<i>Jiang Ping, Wei Liming</i>	
A kind of Braille paper automatic marking system	664
<i>Li Nian-feng, Wang Li-rong</i>	
Study on the design of the variable-damper's valves with optimum damping matching	668
<i>Xuemei Sun, Jiuchen Fan, Hongzhou Li, Kaibao Wang</i>	
Heat Engine Coupling Analysis on Caliper Disc Brake	672
<i>Jiuchen Fan, Yaxu Chu, Xuemei Sun, Hongzhou Li</i>	
Design of a Portable Snake-like Search and Rescue Apparatus Used in the Gap	676
<i>Lu Chenguang, Li Jianyong, Zhang Mingyuan, Wang Long</i>	
The Recognition and Applications of Floating Cars' Driving Behaviors	680
<i>Fu Meng-yin, Shen Zhong-hong*, Yang Yi*, Wang Mei-ling</i>	
Research on Multi-LED Headlamp Lighting System Adjustment Mechanism Design	684
<i>Ben Yanqing, Yang Hongqiao</i>	
The data analysis on superheated steam control of natural circulation boiler	687
<i>Wang Huasheng, Gu Bo</i>	
Planar Four-bar Mechanism Including Revolute Joints with Clearance	692
<i>Wang Xing, Chen Pei</i>	

The design of chisel-edge ruling tool for diffraction gratings	699
<i>Jirigalantu, Zhang Fangcheng, Jirigalantu</i>	
Mechanical behaviour of self-piercing riveted two-layer joints with different surface treatment	703
<i>Liu Ruijun, Dang Xiangwen</i>	
Program Architecture Analysis and Design for Robotic Sand Core Handling Manufacturing Cell	707
<i>Liankui Qiu, Qian He</i>	
Analysis of the roller-race contact deformation of cylindrical roller bearing using a improved slice method	711
<i>Yang Hai-sheng, Cheng Guo-ding, Deng Si-er, Du Hui</i>	

Sun-I-Session VIII: Electric Vehicles Research

Third-order dynamic model of a lead acid battery for use in fuel cell vehicle simulation	715
<i>Hongyan Wang, Guangkai Li, MuLi, Zhengxin Jiang, Xintao Wang, Quanxin Zhao</i>	
The influence of parallel hybrid vehicle on synchronizer performance	721
<i>Xiangyan Xin, Zaimin Zhong</i>	
Structure Design of a Height-Adjustable Medical Transport Vehicle Based on the CAE Simulation Analysis	725
<i>Zhang Yu-feng, Zhang Yao-juan</i>	
Research on method for real-time monitoring dynamic vehicle loading based on multi-sensors	729
<i>Li Shiwu, Tian Jingjing, Sun Wencai, Yang Zhifa, Chen Lu</i>	
An Active Driver Fatigue Identification Technique Using Multiple Physiological Features	733
<i>Li Shiwu, Wang Linhong, Yang Zhifa*, Ji Bingkui, Qiao Feiyan, Yang Zhongkai</i>	
Study on Optimal Slip Ratio Identification and Traction Control for Electric Vehicle	738
<i>Qiang Gu, Xiusheng Cheng</i>	
Control System Modeling and Simulation of Parallel Hydraulic Hybrid Heavy Vehicle	743
<i>Cui Zhang, Xinhui Liu, Feng Xie, Qiang Shi</i>	
Study on Auto Maintenance and Frame Based on Car Networking Technology	747
<i>Yongzhe Xin, Cuijuan Zhu</i>	
Study on Transition Charging Method of lithium-ion battery Based on the multiple model adaptive Control	751
<i>Ma Dandan, Bai Jing, You Fahai</i>	
The application of CAN-bus technology in the vehicle	755
<i>Shuqing Guo</i>	
A Method of Performances Analysis to Improve Bus Design	759
<i>Liu Yong-chen, Sun Li</i>	
City Bus Idle Stop-Start System Simulation Analysis	763
<i>Liu Yong-chen, Sun Li</i>	

Sun-I-Session IX: Logistic and Traffic Engineering

A Collaborative Services Grid Portal Architecture Based on OGSA	767
<i>Jianmei Ge, Yue Gao</i>	
Design and Study of the Environmental Protection and Energy Saving Toilet for the Long-distance Train	771
<i>Lv Xiang-yan, Wang Kai-bao</i>	
An Application of Ontology to Test Case Reuse	775
<i>Shaojie Guo, Weiqin Tong, Juan Zhang, Zongheng Liu</i>	
Surgical Planning and Simulation Study of Orthognathic Surgery Based on Occlusal Contact	779
<i>Zesong Tan, Jia You , Xianfeng Jiang, Xianhong Shao</i>	
An international comparative study on the developments of green logistics	783
<i>Xiu Guoyi, Chen Xiaohua</i>	
Research on the third party logistics supplier selection evaluation based on AHP and entropy	788
<i>Xiu Guoyi, Chen Xiaohua</i>	
Multi-Objective Evaluation Model for Aviation Ammunition Maintenance Quality	793
<i>Gang Xu, Rubo Geng, Mingcong Ma</i>	
An Incremental Maintenance Method for Xquery Materialized View	797
<i>Xueyun Jin, Husheng Liao</i>	
The Impact of Internal Logistics Information Technology Processes to Service Performance	802
<i>Wang Baiyi, Yang Fan</i>	
Basic Research On Reverse Logistics Implemented by Enterprise	807
<i>Zhao Jian guang</i>	
Modeling Passenger Flow of Rail Station in China	811
<i>Meng Xianqiang, Mu Taiwen, Wang Kaiying</i>	
Research on Site Testing for Logistics Centre of Jilin Province	815
<i>Liu Xiaohui, Guo Xiaohui*, Zhao Xueyu</i>	
Research on Site Testing of City Logistics Distribution Center Based on Integer programming	819
<i>Liu Xiaohui, Guo Xiaohui*, Zhao Xueyu</i>	
Study On the Correlation of Logistics Industry And Local Economic	823
<i>Cuijuan Zhu, Junshuang Huo</i>	
A Two Dimensional Numerical Model Of Suspended Sediment Transport Using In The Radial Sand Ridge Field	826
<i>Sun Dawei, Feng Weibing</i>	

Sun-II-Session X: Computer Technology Development and applications

An Imaging System Based on the Integration of SoPC and Reconfigurable Computing	831
<i>Haojun Zhang*, Fanming Li , Yongge Shen , Yan Li</i>	
Research on OpenGL's Application in Precision Seed-Metering Device Designing	837
<i>Yan Hui, Yu Jian-Qun</i>	

Research and Realization on CDIO Teaching Experimental System Based on RFID Technique of Internet of Things	841
<i>Yan Hui, Hu Haiyan</i>	
The Study on Construction of Knowledge Base of Grinding Expert System Based on Data Mining	845
<i>Wang Rui, Long Duo</i>	
The Quadratic Property of the L-MBFGS Methods for Training Neural Networks	849
<i>Lin Zhao, Dali Wang, Yueting Yang</i>	
Information System Security Risk Assessment Based on Grey Relational Analysis and Dempster-Shafer Theory	853
<i>Wei Miao, Yanhua Liu</i>	
A product-set pricing approach based on price sequence matrix	857
<i>Hao Chunji, Wan Fucai</i>	
Design and Implementation of CDIO Capability Evaluation System Based on Expert System	860
<i>Wu Da-qin, Yao Wen-xue</i>	
Structure of online judge system mode based on CDIO project design	864
<i>Wu Da-qin, Yan Hui</i>	
A Solution Based on the MPP'S to Storage Mass Data	868
<i>Zhiyu Chen, Liufu Song</i>	
On Designing and Realization of Professional Teaching Evaluation System Based on Internet of Things	872
<i>Hu Haiyan, Su Chang</i>	
Study and Implementation of the Electronic voting plan on Blind signature	876
<i>Hu Haiyan, Su Chang</i>	
The Modeling of Fish Roe Based on Artificial Life Method	880
<i>Qian Xu, Meihong Zhou</i>	
An Approach of Slicing for Object-oriented Language with Exception Handling	883
<i>Hao Jie, Jiang Shu-juan, Hao Jie</i>	
Fault diagnosis of air compressor based on RBF neural network	887
<i>Xie Mu-jun, Xu Shi-yong</i>	
Precision Fertilizer Sharing System Based on Oracle Database	891
<i>Yueling Zhao, Liying Cao, Guifen Chen*, Haiyan Han</i>	
The application of Multiquadric Function in surface reconstruction	895
<i>Junbo Liu, Dejun Liu, Fushun Gao</i>	
Study on Digital Forensics Model Based on Data Fusion	898
<i>Guofu Ma, Chaochao Sun, Zixian Wang</i>	
New Visual Angle of Thinking Mode Transition In Programming Teaching	902
<i>Shuangli Wang, Shuying Zhang, Chengjun Xie, Lin Xu</i>	
Intelligent construction of DSS model based on integration of neural network and expert system	906
<i>Rubo Geng, Gang Xu, Meng Li</i>	

Information systems representation and attribute reduction	909
<i>Shaobai Chen,Xiaodan Chen,Mengfei Cao</i>	
Affective recognition from EMG signal: An approach based on correlation analysis and adaptive Tabu Search	913
<i>Hong Qiu,Guangyuan Liu, Fengru Liu</i>	
Comparative studies of visual stimuli features affect the stimulus recognize	917
<i>Liu Jun-ling,Guan Rong-qiang,Liu Jun-yi,An Xiaofeng</i>	
Image Retrieval based on Weighted blocks and Color feature	921
<i>Liu Junling,Zhao Hongwei*,Kong Degang ,Chen Chongxu</i>	
Predictive Model of Mn-Si Alloy Smelting Energy Consumption Based on Genetic Neural Network	925
<i>Yang Hong-tao,Li Xiu-lan,Wu Jie</i>	
On filters of pseudo MTL-algebras	929
<i>Wei Wang</i>	
The core of constructing the future power systems computation platform is Cloud Computing	933
<i>Li Xiuqing, Zhang Liang,</i>	
Hybrid Interval Uncertain Multi-attribute Decision Making based on Set Pair analysis	938
<i>Zhang Bin,Liao Ming-jun,Wang Kai-ying,Wang Lin</i>	
A Task Scheduling Algorithm Based on Multi- Core Processors	942
<i>Xiaozhong Geng , Gaochao Xu *, Dan Wang, Ying Shi</i>	
P Ajax-based Technology Platform for The University Educational Management	946
<i>Lu Hadong,Li Xin</i>	

Sun-II-Session XI: Algorithm Development and Software Engineering

Branch-and-Bound Algorithm for the Time Dependent Chinese Postman Problem	949
<i>Jinghao Sun, Guozhen Tan,Guangjian Hou</i>	
Graph Transformation Algorithm for the Time Dependent Chinese Postman Problem with Time Windows	955
<i>Jinghao Sun, Guozhen Tan, Xianchao Meng</i>	
Design And Analysis Of Two New DLL Discriminator Algorithms	961
<i>Long Ma, Shicheng Wang, Zhiguo Liu, Xin Zhao</i>	
Method of short-term load forecasting based on BAYESIAN theorem	966
<i>Jingzhi Wang</i>	
Particle Swarm Optimization with A Novel Mutation Operator	970
<i>Lei Chen</i>	
Faults Test Generation Algorithm Based on Threshold for Digital Circuit	974
<i>Liang Yingchun,Yang Liyuan</i>	
Real-time Tracking Method for Moving Target Based on an Improved Camshift Algorithm	978
<i>Yi-bo Li,Xiao-ling Shen ,Shan-shan Bei</i>	

The Design Of Photovoltaic Radar Target Simulator	982
<i>Yibo Li, Tao Zhang</i>	
SMC with Disturbance Observer for High Performance PMSM	986
<i>Xin Ping, Bai Jing</i>	
Combining genetic algorithm and SVM for corn variety identification	990
<i>Min Zhao, Wenfu Wu, Ya qiu Zhang , Xing Li</i>	
Data Processing Method of Multi-position Strap-down North Seeking System Based on SVD	994
<i>Shen Cheng-wu, Wang Zhi-qian, Liu Chang, Li Jian-rong, Yu Shuai-bei</i>	
The visually interval algorithm for the problem of the constraint global optimization	998
<i>Junyan Xu, Xiaodan Wang, Qinghuai Liu</i>	
Study on the Personalized Retrieval Model of BP Neural Network	1002
<i>Shuo Wang, Kaiying Xu, Jialin Li</i>	
Properties of Spin Squeezing in the Quantum Kicked Tops Model	1006
<i>Yongchao Wang</i>	
Lossless Hyper-Spectral Image Compression Based on XCJRCT, Discrete Wavelet Transform and Set Partitioning In Hierarchical Trees Coding	1010
<i>Changcheng Li, Chengjun Xie, Shuang Li, Dong Chen, Xuechao Ma, Hongxia Zhang</i>	
Realization of a LSB Information Hiding algorithm Based on Lifting Wavelet Transform Image	1015
<i>Changcheng Li, Wei Xu, Liang Meng, Baojun Liu, Yongjiang Wang, Lin Wu</i>	
Computing Ruled Surfaces Using Weighted Graph	1019
<i>Wenyong Gong, Minghao Guo, Tieru Wu</i>	
A Real-time Visualization Method based on parametric surface and IHS model	1025
<i>Xu Lin, Xie ChengJun, Li Yimin, Wang ShuangLi</i>	
A New Filter Trust Region Modified BFGS Method	1029
<i>Yunlong Lu, Wenyu Li</i>	
A Decision Tree Generation Algorithm Based on Maximum Similarity	1032
<i>Xinmeng Zhang, Shengyi Jiang</i>	
One Dynamic Configurable Channel Algorithm for CAN Bus Communication	1036
<i>Che Jinhui, Jiang Feng, Xue Manling, Li Laichun</i>	
An Improved Cooperative PSO Algorithm	1040
<i>Shen Huisheng*, Zhao Yanmin</i>	
Algebraic properties of the category of double quantale modules and its direct limit	1043
<i>Shaohui Liang</i>	
Improved Image Registration Based on SIFT Features	1047
<i>Jinxia Liu, Yuehong Qiu</i>	
A Method to Construct Self Set for IDS Based on Negative Selection Algorithm	1051
<i>Qi Jin, Ma Ming</i>	

Sun-II-Session XII: Signal Processing and Images

A Fast Fusion Method of Beijing-1 Micro-satellite Image	1054
<i>Xue Xiaorong, Xiang Fang, Wang Hongfu, Wang Aimin</i>	
Pixel Depth Approach to Deformed CAPTCHA Skeleton	1058
<i>Jingsong Cui, Gang Du, Lu Liu, Qianqi Guan</i>	
Bi-iteration Subspace Tracking Using Instrumental Variable	1062
<i>Wei-ke Nie, Cong-guang Zhu, Da-zheng Feng, Jian-qiang Liu</i>	
Evaluation of Sub-pixel Displacement Measurement Algorithms in Digital Image Correlation	1066
<i>Lei Xiong, Xiaoyong Liu, Guodong Liu, Jianying Liu, Xin Yang, Qingchang Tan</i>	
Research on the Application of Image Fusion and Second-generation Bandelet Transform in Image Denoising	1070
<i>Hongzhi Wang, Liwei Zhang, Yuhao Xu</i>	
The Distortion Correction of Large View Wide-angle Lens for Image Mosaic Based on OpenCV	1074
<i>Wang Hongzhi, Li Meijing, Zhang Liwei</i>	
Study on Image Real-Time Interpretation Based on Particle Filter	1078
<i>Wang Zhi-qian, Liu Shao-jin, Geng Tian-wen, Shen Cheng-wu, Yu Shuai-bei</i>	
A well-resolved condition for point targets in MUSIC imaging algorithm	1082
<i>Haoxing Yang, Hongxia Wang</i>	
Image Segmentation Algorithm Based on Feature Fusion and Cluster	1086
<i>Zhanguo Gao, Li Yao, Fengyu Duan</i>	
Stationary Wavelet Denoising Based on Wavelet Coefficients Obeying Prior Distribution in Subbands ..	1090
<i>Zhang Fengjun, Xie Chengjun, Yin Jianhui, Zhou Zhiqiang</i>	
An automatic method of synthesizing panoramic radiograph by unwrapping dental CT image	1094
<i>Han Bing, Chen Liang, Cai Zhen*, Pu Fang, Li Deyu, Li Shuyu, Fan Yubo</i>	
Study on the Application of SPIHT Algorithm Based on the Spectral Transformation in Color Image Lossless Compression	1097
<i>Jingli Xue, Chengjun Xie, Xiaohong Hu, Taihui Liu, Juan Guo</i>	
Research of color image lossless compression algorithm based on DWT-YCOCG-SPIHT-CABAC	1101
<i>Jingli Xue, Chengjun Xie, Xiaohong Hu, Juan Guo</i>	
A Music Question Answering System Enhanced with Dialogue Management	1105
<i>Zhao Xingtao</i>	
A Medical Image Registration Techniques Based on Improved Artificial Immune Algorithm	1110
<i>Li Xu, Du Ruihong</i>	
The Application of Multi-resolution Techniques on The Diagnostic X-Ray Coherent Scatter Images ...	1114
<i>Taihui Liu, Yanhong Li, Jingli Xue, Chengjun Xie</i>	
The Design of FIR Filter based on APA Genetic Algorithms	1118
<i>Zhao An-xin, Lu Ping, Lu Jian-jun</i>	
Image Denoising based on Bidimensional Empirical Mode Decomposition	1122
<i>Yao Pei, Yangang Wu, Dacheng Jia,</i>	

New Normalization method Of Imaging Data for Electrical Capacitance Tomography	1126
<i>Zhiheng Guo</i>	
A Non-uniform Regularization Image Reconstruction Algorithm for Electrical Capacitance Tomography	1131
<i>Zhiheng Guo</i>	
Rotation and Scaling invariant Feature Lines for Image Matching	1135
<i>Zhang Ye, Wang Yanjie, Qu Hongsong</i>	
 Poster Session-Session: Poster Session	
The Research on Adaptive Measurement of Angular Acceleration for Photoelectric Servo Turntable ...	1139
<i>Liang Wei, Chen Juan, Guo Jin, Feng Feng</i>	
Reinforcement Learning Model, Algorithms and Its Application	1143
<i>Wang Qiang, Zhan Zhongli</i>	
An improved chaos immune genetic algorithm	1147
<i>Zhan Zhongli, Wang Qiang</i>	
Energy-Considered Scheduling Algorithm Based on Heterogeneous Multi-core Processor	1151
<i>Li Wenjing, Wang Lisheng</i>	
Delineating Soil Nutrient Management Zones Based on ID3 Algorithm	1155
<i>Liu He, Cao Liying, Chen Guifen, Li Dexin</i>	
A New Algorithm for Motion Estimation from Straight-Line Optical Flow Based on Ant Colony Algorithm	1160
<i>Congxuan Zhang, Zhen Chen, Ming Li, Shuigen Wei</i>	
A Combat Effectiveness Evaluation Model Based on Interval Number and Grey Decision Making	1166
<i>Hui Li, Lihong Guo</i>	
Research on the Detection Information Intelligent Fusion of Oil Equipment	1170
<i>Yudi Zhou, Qingzhong Zhou</i>	
Development of Database Grid Service Based on GDT	1175
<i>Wang Gang, Li Guo-liang, Zhao Yan-juan, Zhang Xiao</i>	
Research On Image Vectorization Based on Mathematical Morphology	1179
<i>Zhang Xiao-xian, Zheng Guo-xun, Fu Hao-hai, Cao Li-ying</i>	
Interpolation Algorithm of Zadoff-Chu Sequence	1183
<i>Liu Yue-liang, Jiang Yu-zhong, Zhang Wei</i>	
Consistency of Estimators Under Nonparametric Regression Model for ANA Sequences	1188
<i>Xili Tan, Hui Zhang</i>	
Strong Stability of Linear Forms with Identical Distributed Pairwise NQD Random Variables Sequences	1192
<i>Xili Tan, Aihua Xu</i>	
Numerical Simulation of the Gas-Liquid- Liquid Flow in Aluminium Reduction Cells	1196
<i>Zhiming Liu, Zhiming Liu, Wangxing Li, Jianhong Yang, Yueyong Wang, Xinping Tang</i>	
CPLD Control and design of video processor SAA7111	1201
<i>Baohai Yang</i>	

Development of the automatic flame and layered cutting machine	1205
<i>Zhao Huanyu , Yu Ping, Ji Ruixing</i>	
An New Speech Recognition Method based on Prosodic Analysis and SVM in Zhuang Language	1209
<i>Yin Yeqing, Tian Tao</i>	
Image Fusion Algorithm Based on Fractal Dimension and Contrast in Multi-wavelet Transform Domain	1213
<i>Zhihui Wang, Yong Tie, Shuhua Li, Dong Li</i>	
Method of Soil Electrical Conductivity Measurement Based on Multi-sensor Data Fusion	1219
<i>Chunlong Ma , Jianguo Li , Shuhan Yu</i>	
Design of Gas Information Collection and Control System Based on GPRS	1222
<i>Chunlong Ma , Xiaoguang Li , Zhaoxi Li</i>	
Experimental Design of Gas Monitoring System in Mine Safety helmet Based on Wireless Sensors Networks	1225
<i>Chunlong Ma , Jinming Huo , Xiaohui Yang</i>	
the Latest Development of the Motor/Generator for the Flywheel Energy Storage System	1228
<i>Yu yali, Wang yuanxi, Sun feng</i>	
Experimental Analysis of the Multi-wheel Steering Control System	1233
<i>Tian Furun, Chen Guang, Song Ziwei, Li Lu</i>	
The Hardware Design of Multi-wheel Steering Electro-hydraulic Proportion Control System	1237
<i>Tian Furun , Chen Guang, Song Ziwei , Li Lu</i>	
The Algorithm Study of Data Warehouse Based on Dynamic Plan Recognition	1242
<i>Tang He-nan, Yan Hui</i>	
Design of Coal Mine Underground Drainage Monitoring and Controlling System Based on PLC and Touch Screen	1245
<i>Wu Jing, Chen Guo jie</i>	
Lightweight Web Framework Oriented on Page Flow Component	1248
<i>Huanli Pang, Lianzhe Zhou, Xin Chang</i>	
Design for Running Auxiliary Trainer Based on RF Technology	1252
<i>Kaibin Chu, Zhenwei Zhu</i>	
Research on A New Type of Multi-Link Variable Compression Ratio Engine	1256
<i>Yan Zeshuang, Lin Jiansheng , Han Xu, Ji Anjian, Liu wenjian, Jin Yusen</i>	
Superlinear Convergence Order of the Simple Iterative Method	1260
<i>Mingda Zhang</i>	
Simulation Modeling Study of Complex Particle in Equal Radius Ball-filling Method	1264
<i>Xin Gang, Yan Hui</i>	
Dynamic stress analysis of automatic weapons breech mechanism	1267
<i>Xianqing Yang, Zhihong Jia</i>	
Research of Architecture Pattern Based on .NET Distributed System	1270
<i>Xiaohong Hu, Jingli Xue, Hongjie Liu</i>	

Research and Implementation of Web Application Based on Ajax	1274
<i>Xiaohong Hu, Jingli Xue, Hui Zheng, Yimin Li, Hongjie Liu</i>	
On the Current Situation of Developing RFID Middleware in China	1278
<i>Wenchong Shi, Maohua Liu, Honggang Liu</i>	
Analysis of Power Transfer Characteristic of Capacitive Power Transfer System and Inductively Coupled Power Transfer System	1281
<i>Xia Chen-yang, Li Chao-wei, Zhang Juan</i>	
The XML filtration based on Hash Table and Stream Index	1286
<i>Xia Weijian*, Zhao Heji, Zhao Jiasheng</i>	
The Complete Convergence of Linear Process Generated by ρ^- -mixing Sequence	1291
<i>Yingjie Zhan, Xili Tan</i>	
The Complete Convergence of ρ^- -mixing Random Variables Array	1294
<i>Yingjie Zhan, Xili Tan</i>	
Web CT-based Platform Design for Interactive College English Teaching	1298
<i>Zhang Yifei</i>	
WebQuest-based College English Course Design	1302
<i>Zhang Yifei</i>	
Log Analysis for Embedded Real-time Operating System Based on State Machine	1306
<i>Yilei Shi, Renfa Li, Rui Li, Yong Xie</i>	
The Research and Implementation of Job Submission System based on VB and BPFTP Server	1310
<i>Hong Yan, Ying Li</i>	
Application of IPSO Algorithm to Inverse Kinematics Solution of Reconfigurable Modular Robots	1313
<i>Yanli Du, Yong Wu</i>	
The Numerical Simulation of the Flow Field on Toilet of Environmental Protection and Energy saving for the Long-distance Train	1317
<i>Wang Kai-bao, Chu Ya-xu</i>	
Fractional Order Proportional and Derivative Controller Design for Second-order Systems with Pure Time-delay	1321
<i>Rui-ping Wang, You-guo Pi</i>	
Analysis of Supply Chain System Stability Based on Network Structure Entropy	1326
<i>He Xijun, Wu Yuying</i>	
Energy-saving analysis of neural network control based on PMV in a ship air conditioning system	1331
<i>Liu Hongmin, Tu Shuping</i>	
An Improved Secret Image Sharing Scheme with Steganography	1335
<i>Yin-Ping Chai</i>	
Comprehensive forecast system of the thickness of coal seam and its application	1339
<i>Bo Wang, Shengdong Liu, Lanying Huang</i>	
A New Neural Network Approach for Fault Location of Distribution Network	1344
<i>Feng Yan, Wenxuan Liu, Lin Tian</i>	

Autocalibration Method of MEMS Accelerometer	1348
<i>Hu Die,Zeng Chunnian,Liang Hong</i>	
Design of High-performance Transconductance Error Amplifier for DC-DC Converter	1352
<i>Zhou Yefeng, Yu Guoyi*, Zheng Meijun, Zhang Le</i>	
Research on Transforming Continuous-time System into Discrete-time System	1355
<i>Li Jian-zhong,Li Yi, Gu Guo-hua ,Sun Ji-hong</i>	
Research on Portable Detecting System of Barrel Crack for Vehicle-mounted Howitzer	1359
<i>Li Jian-zhong,Gu Guo-hua ,Chen Yun-fei, Zhou Pu-cheng, Yu Yang</i>	
An Exhaust Muffler Structure Based On The Expansion Chamber	1362
<i>Yang Yanjun, Sun Binghan, Zhang Daizhi, Ma Wenyan</i>	
The Research of Moving Object Detection Based on Complex Background	1366
<i>Lu Bin,Liu Huanxia,Zhang Qiang</i>	
Research on Background Motion Estimation and Compensation in Image Sequences	1370
<i>Lu Bin, Zhang Qiang, Liu Huanxia</i>	
The Research of Digitized Substation Fault Diagnosis Based on 3D GIS	1374
<i>Zheng Ling,Yang Chaoran,Hu Yanxiang</i>	
Modeling and Forecast of Glazing Thickness Deposition Rate Using Artificial Neural Network	1378
<i>Sheng-rui Yu,Hao Feng</i>	
Design of Transmission of High-speed CCD Driving Signals	1382
<i>Shuyan Zhang,Xucheng Xue</i>	
Research on Real-time Scene Driving Based on Dual-engine of Open Inventor	1386
<i>Feng Jing,Hui Li,Bo Zhang,Bo Guo</i>	
The Application of Dual-parameter drive ratio regulation on Mechanical Continuously Variable Transmission	1390
<i>Yirui Zhang,Chuankai Sun,Jinyu Qu,Yingchao Zhou</i>	
An Adaptive Inverse Controller For Hypersonic Vehicle	1394
<i>Jiaxue Liu,Zengshuai Pan,Qian Wang,Wei Wei</i>	
Design of the Miniature Internal Electronic Pressure Gauge	1399
<i>Zhang Yu,Zu Jing</i>	
The Dynamic Calibration Method of High- Pressure Transducer under High-Static Pressure	1403
<i>Zhang Yu,Zu Jing,Zhang Hong-yan,Pei Dong-xing</i>	
3 Dimensional Finite Element Analysis of Vehicle Permanent Magnet Motor's Rotor	1407
<i>Liang Qiao,Xinjian Wang, Xinbo Chen,Yeqin Wang</i>	
The Optimization Design and FEA Analysis in Car Sunroof Design	1411
<i>Xiaoxia Xu,Zhiwu Han, Yingchun Han</i>	
Influence of Tubes on Flow and Temperature Fields within Water-Collecting Box	1415
<i>Xiaochuan Wang, Guo He,Ping Zhou</i>	
New improvement of the Hadoop relevant data locality scheduling algorithm based on LATE	1419
<i>Liyi Li, Zhuo Tang , Renfa Li, Liu Yang</i>	

Study on a Method of Rapid Transfer Alignment	1423
<i>Luan Hongzhong, Mao Yuliang</i>	
Research on the Fault Diagnosis of Flight Control System	1427
<i>Xu Xin-li, Jiang Zhen, Fan Bing-xiao</i>	
Communication of Multi-robot System on the TCP/IP	1432
<i>Liu Hui-ping, Chen Dai-min, Yu Miao</i>	
The Characteristic of EMP Electromagnetic Power Variation Influence Limit Cycle in Power Systems in a Weakly Non-linear System	1436
<i>Yang Chun-ling, Zhu Jian-hua</i>	
Active Disturbance Rejection Control of DSTATCOM under Unbalanced Voltage Conditions	1440
<i>Jie Tang, Yanbin Xie, Xiaofang Wang</i>	
Transformer Failure Diagnosis Based On BP Neural Network	1445
<i>Zhang Yongtao, Wang Yajuan, Zhao Yanjun, Wu Lan, Zhen Pengjie</i>	
The research and design of the network teaching platform based on multi-layer architecture	1449
<i>Wang Cheng*</i>	
Gait Recognition based on Hidden Markov Models	1453
<i>Qi Yang</i>	
Gait Recognition based on Embedded Hidden Markov Models	1457
<i>Qi Yang</i>	
Network side PWM converter voltage regulator control method	1461
<i>Lili Li, Erte Qu</i>	
Researches on Wind Turbine's Drive System Based on the Fuzzy PID Control	1465
<i>Lili Li, Erte Qu</i>	
GPS Technics with DR/MM Arithmetic and Its Application on Automobile Positioning	1469
<i>Quan Ningyi</i>	
The Study of Temporal Scheme in Temporal Database	1473
<i>Xu Chunyan, Jiang Feng, Liu Guixia</i>	
The Microstructure and Performance of Cr ₃ C ₂ /Fe/Al Composite Coating	1477
<i>Guang Chen, Wenbiao Gong</i>	
Enclosure Method for Reconstruction of 2-D Cracks	1480
<i>Wei Sun, Tian Luan</i>	
Research for Service Deployment Based on MPLS L3 VPN Technology	1484
<i>Lan jun, Lin Bi ying</i>	
A new OFDM Synchronization Algorithm using Training Cyclic Prefix	1489
<i>Yuan Feng, Shuru Liu, Nana Li, Yan Chen</i>	
An Information Service Model of Digital Energy Meter Based on IEC 61850	1492
<i>Yang Guotian, Yu Lei</i>	
The Design and Implementation of timetable system based on genetic algorithm	1497
<i>Ping Guo, Jing-xin Chen, Lin Zhu</i>	

Variational Method of Scattering by Inhomogeneous Anisotropic Layers	1501
<i>Tian Luan, Wei Sun</i>	
The study of long-term load forecasting based on method combination innovation	1505
<i>Xie Chuansheng, Jia Xiaoxi, Hou Wentian</i>	
The Design of Plugging Isolation Process Near Launcher or Receiver	1509
<i>Yu Song, Ming Zeng, Wei Liu, Shimin Zhang</i>	
An Algorithm of Scenes Description and Analysis based on MRF	1513
<i>Dongcheng Shi, Lili Wang</i>	
The Thinking of Ceramic Design to pursue the Traditional Sources under the Environment of Modern Industrial Design	1517
<i>Qi Ruiwen, Zhong Dan</i>	
The Research of Video Browsing Technology Based on the Moving Target	1520
<i>Shaobin Li, Xiaomeng Wang, Pin Xu, Gui Tong</i>	
Designing Hardware-in-the-loop Simulation System for Missile with High Level Architecture	1525
<i>Keqiang Su, Wenxing Fu</i>	
Design of back-stepping sliding mode excitation controller based on Extended State Observer	1528
<i>Kang Li, Li Huimin</i>	
A New Bionic Assisted Driving Mechanism of Ruins Rescue Robot	1532
<i>Zhen Zhang, Liling Peng, Cao Xu</i>	
Optimize Particle Filter Tracking algorithm By Features Fusion and Variable Noise Covariance	1537
<i>Xu Kehu, Li Ke</i>	
Nonlinear Robust Control for Excitation Systems Base on the ESO-BackStepping Method	1541
<i>Guo Peiyong, Chen Feng</i>	
Research of Refueling Customer Classifications Based on Kernel Clustering Algorithm under the Organic Combined Model	1545
<i>Likun Zhou</i>	
Research on Military Traffic and Transportation Path Optimization Based on Genetic Algorithm	1549
<i>Lu Bang-jun, Wang Tao, Wu Lin-li</i>	
Development and Implementation of the ABS Based on Model Library	1552
<i>Qiu Bao-mei, Lian Yi-ping, Zheng Tai-xiong</i>	
Three-Party Quantum Secure Direct Communication Base on Partially Entangled States	1555
<i>Xiujuan Zhang, Shucui Xie, Dong Wang</i>	
Identification of Peer-to-Peer Traffic Based on Process Fingerprint	1559
<i>Wen Zhang, Heng Wang</i>	
A Semantic Web Based Personalized Learning Service for Programming Course in E-learning	1563
<i>Zhang Jinghua</i>	
The Study Of Analysis Technology Of Automotive Exhaust	1567
<i>Xu Lina, Xue Rui, Zhang Jie, Wu Zhiqing</i>	

Application of Immune Genetic Algorithm Based on Autocorrelation Theory in GPS Ambiguity Solution <i>Xin Wang, Benyi Xu</i>	1571
Design of hub' flop amount measurement and detection system based on Freescale <i>Zhao Tian, Feng Zhishu, Chen Cui, Tian Chunyan, Ren Siying</i>	1575
A Research into The Simulation of Urban Land Evolution Based on Improved Cellular Automata Model <i>Wu Changsong, Gao Chunmei</i>	1578
Conceptual Analysis of Military Knowledge Based on Service-ontology <i>Liquan Han, Shufen Liu, Zhengxuan Wang</i>	1582
The Research and Implementation of Flash Intermediate Conversion Layer In Embedded System <i>Zheng-jun Zhai, Xiao-jie Suo, Jin Ji</i>	1586
The Study of Traction Control System for Omni-directional Electric Vehicle <i>Guoying Chen, Changfu Zong, Qiang Zhang, Lei He</i>	1590
A Method for a Driver Substitute in Intelligent Driving System Based on Simulation <i>Liang Chu, Yanbo Wang</i>	1594
Research on Traction Slip Control Algorithm for Parallel Hybrid Cars <i>Liang Chu, Libo Chao, Zhan Wu, Tongbo Wu</i>	1598
Investigation of cycle life of li-ion power battery pack based on LV-SVM <i>Liang Chu, Feikun Zhou, Jianhua Guo</i>	1602
An Improved Destripe Noises Method for TDI-CCD Images <i>Bin He</i>	1606
Research on Virtual Testing of Hand Pressure Distribution for Handle Grasp <i>Tao Guoqiang , Li Junyuan , Jiang Xianfeng</i>	1610
Research and analysis of the Virtual Reality with FLARToolKit <i>Yongxin Yan, Xiaolei Zhang</i>	1614
Application of the combinatorial relaxation algorithm in index reduction method <i>Yongxin Yan, Xiaolei Zhang</i>	1618
Analysis and Control of D-STATCOM under unbalanced voltage condition <i>Yueqiu Wang, Jie Tang, Xionger Qiu</i>	1623
Ship-mounted Crane's Heave Compensation System Based On Hydrostatic Secondary Control <i>Zhang Dabing, Wu Jianzhong, Lai Xin, Zhang Dabing</i>	1626
Application of Chaotic Neural Network in Power System Load Forecasting <i>Yu-hong Zhao, Jin-feng Xiao</i>	1629
Relational Databases Watermarking for textual and numerical data <i>Lizhong Zhang, Wei Gao, Nan Jiang, Liqiu Zhang, Yan Zhang</i>	1633
Research on the Nonlinear Dynamical Behavior of Double Pendulum <i>Chen Li-jie</i>	1637
On Auto Bionic Modeling Design Study Based on Cognitive Psychology Theories <i>Hou Minfeng, Fu Liming*</i>	1641

On the Study of Auto Form Design Based on Customer Perceptive Intention	1645
<i>Hou Minfeng,Fu Liming*</i>	
Accelerating Finding Euler Circuit on CPU-GPGPU Heterogeneous Architecture	1649
<i>Jiachun Ye,Songnian Yu</i>	
An Improved Algorithm of Multiple Pattern Matching	1653
<i>Yunan Liu, Yongwei Wang, Li Bian, Wenchong Xie</i>	
A Key Technique Based on MFC to Develop Structure Mode Reader of RFC Document	1657
<i>Ding Yun-zheng,Hu Zhen</i>	
Investigation and Application of High Accuracy Schemes in Numerical Simulation of Turbine Flow Field	1661
<i>Sun Yang,Bi Hui,Feng Guo-tai</i>	
Path Planing and Tracking for Multi-robot System Based on Improved PSO Algorithm	1667
<i>Mao Yang,Chun-zhe Li</i>	
Study on the model of safety evaluation in coal mine based on Fuzzy-AHP comprehensive evaluation method	1671
<i>Wu Feng-dong,Hu Nai-lian</i>	
The design of CAN/TCP embedded gateway	1675
<i>Luo Yonggang</i>	
The Design of Prepayment Energy Meter	1679
<i>Luo Yonggang</i>	
Development of Machine Vision Positioning System Based on Neural Network	1683
<i>Bai Wenfeng,Sun Yaping,Xue Bingbing</i>	
Research on Path Planning for Soccer Robot Based on Improved Genetic Algorithm	1687
<i>Wenfeng Bai, Bingbing Xue,Yaping Sun</i>	
A New Storage Scheme for Streaming Media Server Cluster	1691
<i>Jiang Haibo, Xiao Yilong, Fang Jiajia, Wang Yiding, Wang Yuantu</i>	
The static security analysis based on predicting section	1695
<i>Ge Rundong,Liu Wenying</i>	
Research in energy metering device of natural gas	1698
<i>Wang Wei*,Yang Pingxian,Guo Peng,Huang Fei,Yu Han</i>	
Analysis of Energy Consumption of Hebei Based on Energy Consumption Coefficient of Elasticity	1702
<i>Yonggui He,Ruiqing Cui,Shuxia Guo</i>	
Energy Strategy Develop Dominant Decision- Making Based on AHP	1706
<i>Yonggui He,Shuxia Guo,Ruiqing Cui</i>	
Research of the risk assessment of thermal power project investment based on Artificial Neural Networks	1710
<i>Yonggui He, Chang Liu,Tianxiang Huang</i>	
Research Of Wind Power Project Risk Assessment Based On Hierarchy-grey Analytic Method	1714
<i>Yonggui He , Tianxiang Huang,Chang Liu</i>	
Research of the Design of the ERP Application Evaluation System based on the Module Method	1718
<i>Jingmin Wang,Xiaodong Liu</i>	

Design and implementation of a WLAN intrusion detection and DoS attack analyze system	1722
<i>Huang Xiao-hui, Guo Yuan-bo , Liu Wei</i>	
Privacy Protection in Outsourced Database Services	1726
<i>Yonghong Yu, Wenyang Bai</i>	
A Study on the Engaging Process of Energy-Saving Clutch in ISG HEV	1732
<i>Xiusheng Cheng, Yinshu Wang</i>	
A New Way of Adaptive Decoding for Turbo Codes over UMTS Mobile System	1736
<i>Yadong Lv, Huaqing Zhang, Jiaye Wang</i>	
Design of asynchronous motors energy saving controller base on BP-NN-PID control	1740
<i>Xiaoguang Li, Shuyan Zhang, Shuchen Yang</i>	
The Design and Implementation of A Real-time Webpage Tamper-Proof Technology	1743
<i>Luo Yue-guo, Tan Hai-jun</i>	
Attitude Control for Unmanned Helicopter using H-infinity Loop-shaping Method	1746
<i>Mingyun Lv, Yanpeng Hu, Peng Liu</i>	
The composite function block with structure self thermal insulation	1750
<i>Xianli Wang, Lin Wang</i>	
Removable Media AuditBased on Drive Layer	1754
<i>Yang Pengying</i>	
Imaging control of airborne area CCD mapping camera	1757
<i>Yang Yongming, Li Qinjun, Chen Xihui, Zhou Gang</i>	
Analysis of High Frequency Transformer Leakage in Photovoltaic Inverter	1761
<i>Meng Ming, Wu Haibo, Guo Yu</i>	
Large Capacity Digital Audio Watermarking Algorithm Based on DWT and DCT	1765
<i>Keqiang Ren, Huihuan Li</i>	
Research on Product Innovation of Imaging Industry Based on TRIZ Theory	1769
<i>Zhang Hui, Zhang Dongsheng</i>	
Identification of Cognitive Radio Modulation	1773
<i>Zhao Jianli, Wang Tingting</i>	
A Fault Diagnosis Method Based on AWA-SVM of Complicated Equipment	1777
<i>Shi Lianyan, Chen Lin, Song Wen yuan, Wang Hongyun</i>	
Ipv6 Multicast implementation and security solutions base on .Net platform	1780
<i>Haiyan Liu, Ying Li , Yunfeng Zhang</i>	
The Effect Analysis of reinforcement on the chloride concentration distributing in Concrete	1783
<i>Guangshu Ma, Xianli Wang</i>	
Improvement algorithm of reducing the calculation error of reservoir flood dispatching	1786
<i>Yan Yaoring, Cao Yutao</i>	
The sample allocation plan of testability verification for mechatronics equipment based on integrated multi-factor	1789
<i>Yang He, Xiahui Ye, Jiangqing He</i>	

Velocity-testing of High-speed Motion Object in Special Environment Based on Electromagnetic Sensor <i>Dan Zhang, Youde Wu, Xianwen Wu, Zigen Chen</i>	1793
The FIR Window Function Design based on Evolutionary Algorithm <i>Kangshun Li, Yuan Liu</i>	1797
Nibble: an Effective K-Anonymization <i>Lei He, Songnian Yu</i>	1801
Research of Wireless Sensor Network Key Distribution Mechanism Based on Internet of Things <i>Zhang Lei, Tang Da-peng</i>	1806
Algorithm Improvement of Information Hiding Technologies <i>Jin Pan, Lijuan Wang, Qian Zou, Wei Huang</i>	1810
Analysis of the Noise Figure of Raman Fiber Amplifier <i>Haitong Wang, Jian Jin</i>	1814
Dual Watermarking Scheme Based on Dynamic Feature Set <i>Jingchun Zhang, Yanxia Xu, Huijuan Ma</i>	1818
A Real-time Fault-tolerant Scheduling Algorithm for Software/Hardware Hybrid Tasks <i>Jinyong Yin, Li Yuan, Hanguang Song, Qiangqiang Cui</i>	1822
A Non-Capacitance Dielectric Material and Its Application in the Global Characterization of High-Speed Power Delivery Networks <i>Peipei Su, Jinyong Yin</i>	1829
Calibration of Gain and Time Mismatches for Time-Interleaved ADCs Based on Digital Filter Bank ... <i>Wen-jun Shi, Bo Yan</i>	1836
Linked IPS on Octeon Multi-core Processor for New Generation Network <i>Ji-zhe Yang, Jian-de Lu</i>	1840
An Inner and Outer Ring Heuristic Algorithm for TSP <i>Zhucheng Qiu, Lei Yang, Shaolong Yu</i>	1845
A Ring Construction Algorithm for Solving VRP <i>Zhucheng Qiu, Shaolong Yu, Chaowu Xiao</i>	1849
The Research of Windings Wave Process for Large Power Transformer <i>Qiaolin Ding, Jian Chen, Jianmin Wang</i>	1853
Fast Computation Method for Route Calculation <i>Feng Wen, Shingo Mabuchi, Kotaro Hirasawa</i>	1857
The research on the furnace roller speed self-tuning PID control system of Normalizing furnace <i>Tong Jihong, Wang Jizhong</i>	1861
Software Design of SD Card Reader and Image Processor Based on FPGA <i>Yansi Yang, Yingyun Yang, Ting Yu, Yi Zheng</i>	1864
The design of the multimedia courseware combined with live-action and animation <i>Fang Xing</i>	1868
Criteria for Nonsingular H-matrix <i>Wei Guo, Yingjie Zhan</i>	1872

Dependability Analysis of SSE based on Parametric Estimation	1876
<i>Ren Zhengping,Huang Song,Yao Yi</i>	
A class of Nonmonotone Spectral conjugate gradient methods with the generalized quasi-Newton equation	1880
<i>Mingjuan Ma, Yongpo Zhang , Zilong Yang, Yufeng Shang</i>	
Critical influence factors for e-learning education system continuance intention	1884
<i>Yuan Sun, Jing Zhang, Xuzhong Zhang</i>	
System Design of Double Sheet Detection with Ultrasonic Sensor	1888
<i>Gai Yuxian ,Zhang Zijian,Yang Caijun</i>	
2D-to-3D Conversion Based on Depth-from- Motion	1892
<i>Huabing Wang, Yingyun Yang, La Zhang, Yansi Yang, Bo Liu</i>	
The Simulation of Temperature and Humidity Control System Based on PROTEUS	1896
<i>Xu Xiumei, Pan Jinfeng</i>	
Digital Implementation of A Galvanometric Optical Scanner Based on DSP and FPGA	1899
<i>Jing Feng,Jiang Zhi</i>	
MPLS Survivability Choice Schemes with QoS Guarantees	1903
<i>Xing Su,Lu Zhang</i>	
Adaptive detection and modification algorithm of GPS cycle slips based on wavelet analysis	1907
<i>Liu Ting, Li Suilao, Wang Rui , Jiang Wei, Jia Jichao</i>	
A Drive Circuit of MOSFET for Ultrasonic Power	1911
<i>Likai Zhao, Bonian Li, Xiguang Wu, Minghu Zhang, Jie Zhang</i>	
Wavelet Domain Geometrically Robust Image Watermarking Algorithm Based on Normalization	1915
<i>Wen Zhan,Huang Xiao-yan</i>	
Order Tracking Based on Gabor and Viterbi Algorithm	1918
<i>Zhao Xiaoping,Zhao Xiuli, Wang Yan, Zheng Yuhui</i>	
A Robust Instantaneous Frequency Estimation of Rotating Machinery	1922
<i>Zhao Xiaoping,ZhaoXiuli, Zheng Yuhui, Xie Shengdong</i>	
Application Investigation on Private Cloud in the Field of Group Company Financial Information Management	1926
<i>Jiamin Fang,Xianzhen Meng</i>	
Application Investigation on Cooperation and Exchange Programs between Colleges based on Morden Computing Technology	1930
<i>Jiamin Fang</i>	
A Self-healing Algorithm of Cellular-type WSN Based on Mobile Node	1934
<i>Xicheng Sun,Yunpeng Liu, Wei Sun, Yizhong Ma</i>	
Key technology analysis for active compressor stabilization control of aero-engine	1938
<i>Shunbing Huang,Sanmai Su</i>	
Analysis and Optimization for Oil-gas Separator of Automotive Air Conditioning Compressor	1943
<i>Changdong Wan,Caifen Guo</i>	

Evaluation Method of Effect from Network Attack Considering Node Multi-property Feature	1947
<i>Qing Cheng, Jincal Huang, Zhong Liu, Cheng Zhu</i>	
A QoS Routing Algorithm for Group Communications in Cognitive Radio Ad Hoc Networks	1953
<i>Liming Xie, Jingjing Xi</i>	
An Effective Image Shape Feature Detection and Description Method	1957
<i>Xiuxin Chen, Shiang Wei, Suxia Xing, Kebin Jia</i>	
Development and Implement of the IP Camera Based on DM6437	1961
<i>Baoxiu Li, Wenhui Zhang, Zhenhui Liu, Minjie Kang, Shuang Li</i>	
An Efficient Moving Query Method in Mobile Computing Environment	1965
<i>Liang Ye</i>	
Research on Encryption Technology Based on J2ME Socket Network Communication	1969
<i>Wuling Ren, Dafeng Yu</i>	
A Maintainable Model of Materialized View Based on Data Warehouse	1974
<i>Xueyu Huang, Qisheng Chen</i>	
Pulse Coupled Network Based Image Fusion	1978
<i>Luan Shuang, Li Jing, Sun Ye, Qiu Lijuan, Jin Meishan</i>	
Almost sure central limit theorem on maxima and minima	1981
<i>Liu Ke, Ren Xiang, Jiang Huanjun</i>	
Skin Color Detection under Complex Background	1985
<i>Xiaohua Wang, Xi Zhang, Jingliang Yao</i>	
Design of Monitoring Microsystem Used for Complicated Ammunitions in Storage and Transportation	1989
<i>Xuan Zhaolong, Li Tianpeng, Liu Yachao</i>	
Design of High-speed Real-time Processing Platform Faced on Video Tracking	1992
<i>Gao Xijun, Wang Chunping, Fu Qiang, Wang Wei</i>	
Cross-layer Design for Channel Assignment with Connectivity Maintenance in Wireless Mesh Networks	1996
<i>Yanbing Liu, Guoping Dan</i>	
A study on Chinese students' beliefs and attitude towards CALL	2001
<i>Tang Shifang, Lu Xiuhong*, Deng Hao</i>	
Study on Chinese College Students' Beliefs and Attitude towards Autonomous Language Learning In Computer-Assisted Language Learning Environment	2005
<i>Tang Shifang, Lu Xiuhong*, Deng Hao</i>	
Application of Compass Synchronizing Clock in Mobile Phase-comparison	2010
<i>Jiang Tong, Zhang Zhifu, Hong Yunfeng</i>	
A Novel Method for Linking Reviews with Database Objects	2014
<i>Zhang Yong-xin, Li Qing-zhong*, Sun Tao, Xu Yuan-zi</i>	
An Intrusion Detection System Based on Neural Network	2018
<i>Changjun Han, Yi Lv, Dan Yang, Yu Hao</i>	

Design and Implementation of IF Signal High- Speed Acquisition and Real-Time Storage System for Wideband Radar	2022
<i>Lin Qianqiang, Yuan Bin, Zhang Yue, Chen Zengping</i>	
A Study on the Control System of the Vehicle Steering Stability	2027
<i>Li Guo, Wang Hui</i>	
The Optimum Cooperative Controller of the Steering /Anti-lock Braking System of the Vehicle using the Coordination Model	2031
<i>Li Guo, Wang Hui</i>	
Time Frequency Analysis of Multi-component Non-stationary Signal with Filter Bank Decomposition .	2035
<i>Gao Zhi-bin</i>	
An Overview of Theory and Techniques for Reducing Ring Oscillator Supply Voltage Sensitivity in Mixed-signal SoC	2039
<i>Weilin Xu , Xi Chen, Ji Wu</i>	
Design and kinematic simulation of ratchet mechanism based on ADAMS	2043
<i>Shiyin Qiu, Haitao Wu, Hongbin Liu</i>	
The robust self-regulating control of the vehicle Steering system	2046
<i>Li Guo, Peng Sha, Tang Shihui</i>	
Research on the Steering Antilock Braking Control System for the Vehicles	2050
<i>Li Guo, Peng Sha</i>	
The fuzzy robust cooperative control of the vehicle steering/anti-lock brake system	2054
<i>Guo Li, Zebin Feng , Xu Wang</i>	
A Multi-interface Multi-channel Ad Hoc Routing Protocol For Real Time Video Transmission	2058
<i>Song Ling, Xie Pengyu, Wu Dan, Xu Bai</i>	
Formal Analysis and Verification on a Secure Microkernel	2064
<i>Xiaokun Zhang, Xuying Zhao,</i>	
Triangle Matching Combined with Singular Features in Fingerprints	2069
<i>Xuying Zhao, Xiaokun Zhang, Geng Zhao, Xiaodong Li, Kejun Zhang , Rong Qian</i>	
Application of Improved Quantum Particle Swarm Optimization Algorithm in Power Network Planning	2073
<i>Cao Cheng-dong, Chang Xian-rong</i>	
Blood Cell Image localized Segmentation Combining Mean-shift and ELM	2078
<i>Cui Feng*, Pan Chen</i>	
Research on the Application of Colored Petri Net to Fault Diagnosis of Diesel Engine Control System .	2082
<i>Pan Xing-long, He Guo, Wang Xiao-chuan,</i>	
Design and Realization of Reed-Solomon Codec Based on FPGA Technique	2086
<i>Jiabin You, Shaochuan Wu</i>	
Implementation of the Echo Cancellation for DTMB Repeater	2090
<i>Renjie Su, Jiangnan Yuan, Jianghong Shi</i>	
Immune genetic algorithm for solving nonlinear equations	2094
<i>Wang Jingfang</i>	

High-precision time-domain convolution in harmonic detection	2098
<i>Wang Jingfang</i>	
Noisy speech in real time iterative Wiener filter	2102
<i>Wang Jingfang</i>	
Construction of Chinese New Rural E-Commerce Platform and Its Key Technologies Research Based on Double E-markets	2106
<i>Lijuan Huang, Qiaoqiao Luo, Peng Yu, Guoping YU</i>	
Designing and Planning Agricultural Supply Chain Traceability System Based on Modern RFID Technology	2112
<i>Lijuan Huang, Qiaoqiao Luo, Peng Yu, Guoping YU</i>	
A CMT Congestion Window Updates Mechanism Based on TCP Westwood	2119
<i>Kou Lan, Niu Sha</i>	
The Design And Research Of The Integration For Heterogeneous Database In Campus Card System ..	2123
<i>Lu Ping, Zhao An-xin</i>	
Performance of Video over an IEEE 802.11a wireless LAN	2127
<i>Bing Zhang, Zehua Gao, Feng Gao, Dahsiung Hsu</i>	
The Design and Implement of E-government information system based on Knowledge Management	2131
<i>Dang Yuan-yuan, Wang Yong-cheng, Wang Hong-mei</i>	
An embedded real-time remote monitoring system based on B/S mode	2135
<i>Wu Xiguang, Li Bonian, Zhao Likai, Zhang Jie, Zhang Minghu</i>	
Research on Transportation Route Optimization among Emergency Evacuation	2139
<i>Xugang Du , Qingfeng Sun</i>	
Sensorless Variable Structure Adaptive Speed Control of an Induction Motor	2143
<i>Yang Zhiping, Zang Jinchun, Wu Deming, Zhou Bin</i>	
A New Decapsulating the Frame Method for DVB-S2 Based on RM Code	2147
<i>Xue Rui, Xu Lina, Li Xiaoru*, Zhou Tao</i>	
Fault Tolerant Control for Spacecraft Based on Adaptive Fast Terminal Sliding Mode	2151
<i>Lin Zhao, Xin Yan, Yong Hao, Zhonghua Su</i>	
Sliding Mode Control Based on Passive Nonlinear Observer for Dynamic Positioning Vessels	2156
<i>Guoqing Xia , Xingchao Shao</i>	
Introducing Multiple Knowledge to Workflow Modeling	2160
<i>Wang Nan, Sun Shanwu</i>	
Research on Vendor Selection in Serviced-oriented Manufacturing Enterprises Based on FWNN	2164
<i>Rong Guo, Zhen-an He</i>	
The U-boot Transplantation Based on S3C2440	2168
<i>Geng Qingtian, Sun Zhanchen, Zhao Hongwei*, Gu Jianhao</i>	
Research of the Maximum Transmission Pile Driving Force of Pile Clamping Mechanism under Pile Driving	2172
<i>Xu Zhou, Yurong Chen, Zhen Wang</i>	

Forecasting Monthly Runoff Using Wavelet Neural Network Model	2177
<i>Li Aiyun, Lu Jiahai</i>	
A Study of Cost Control System in the Construction Project of Removing Danger and Reinforce Engineering in KeKeYa Reservoir in Shanshan County of Sinkiang	2181
<i>Hongguan Zhang, Yinghong Liu</i>	
Research on Reasonable Arrangement of Ophthalmology Sickbeds in Hospital Based on Queuing Theory	2186
<i>Feng Xing</i>	
An Improved Method for the Computation of PageRank	2191
<i>Wei Huang, Bin Li</i>	
Scheme Design and Evaluation of Anti- Outburst Remote Control Rig	2195
<i>Hou zhi</i>	
A Flexible Exception Handling Framework for Semantic Programming Language	2199
<i>Zhao Kai, Zhang Linlin, Ying Shi</i>	
Implementation of Embedded System Platform Based on μ C/OS-II and S3C44B0X Microprocessor ...	2205
<i>Xuyong Guan, Qianqian Xing, Li Feng</i>	
Research on Sensitive Data Encryption Based on B/S Network	2209
<i>Qi Dejiang, Tang Henan, Yan Hui</i>	
Design of Zigbee Gateway in Intelligent Monitoring System for Agriculture	2213
<i>Yuanguai Lin, Haixia Xie, Wei Yang, Xingwu Zheng</i>	
A Hybrid Algorithm for Mid-Long Term Hydrothermal Generation Scheduling	2217
<i>Shu Jun, Hong Yunfeng, Zhang Zhifu, Huang Xianchao</i>	
Research on Enterprise Application Integration Based on Web	2221
<i>Zhuang Wu, Yan Li</i>	
Color Image Enhancement Based on Rough Set and Adaptive Genetic Algorithm	2225
<i>Zhuang Wu</i>	
Research on Test Executing System of Spacecraft	2229
<i>Zhongwen Li, Jia Huang, Shilong Ma, Ping Wang</i>	
Alarm Sequences Forecasting Based on Sparse Bayesian in Communication Networks	2233
<i>Li Tong-yan, Chen Chao</i>	
Flapping Wing Mechanism Design Based on Mechanical Creative Design Theory	2237
<i>Tao Zhang, Chaoying Zhou, Chao Wang, Xingwei Zhang</i>	
Design, Analysis, Optimization And Fabrication of A Flapping Wing MAV	2241
<i>Tao Zhang, Chaoying Zhou, Xingwei Zhang, Chao Wang</i>	
Technologies of Geographical Information Services Publication and Discovery Based on Ontology and Description Logic	2245
<i>Ge Wen, Chen Xiao-bin</i>	
Development on the DDE Based Report of Supervisory Computer	2248
<i>Yuan Anfu, Cheng Jiahui*, Zhang Donglian, Zhang Xiaorui</i>	

The Trusted Computing Environment Construction Based on JTSS	2252
<i>Wang Xingkui, Peng Xinguang*</i>	
Trajectory Tracking of a High Altitude Unmanned Airship Based on Adaptive Feedback Linearization	2257
<i>Wu Yongmei, Zhu Ming, Zuo Zongyu, Zheng Zewei</i>	
The Coarse North-Finding Based on Double MCU Control System	2262
<i>ChenDan*, Zhao Mei-rong, Lin Yu-chi</i>	
Static path planning of tracked mobile manipulator and Simulation	2266
<i>Pengmei Dong, Xinhua Zhao</i>	
Research of Barber Model in Process Concurrency Control	2270
<i>Jun Tie, Bao-zhe Zhang</i>	
Research on Optimal Algorithms in Mobile Real-Time Broadcast Environment	2274
<i>Jun Tie , Xiaorong Wang</i>	
Research on the BOF steelmaking endpoint temperature prediction	2278
<i>Cai Bing-yao, Zhao Hui*, Yue You-jun</i>	
Improved difference method in numerical simulation of linear seepage flow	2282
<i>Liu Hong, Wang Xinhai</i>	
Research on the relationship between pull-in performance and maximum-torque of permanent magnet synchronous motors with pumping unit	2286
<i>Bai Shan, Chen Rui</i>	
Synthetic Evaluation Indices System of Low- Carbon Cities and Its Application	2290
<i>Caiqing Zhang, Mengmeng Cao, Ping Xie</i>	
An Integrated Preprocessing Method on Real Estate File Images Recognition	2293
<i>Kuan Lin, Jian-qiao Yu*, Wen-lan Geng, Bin Liao</i>	
From Maxi-Min Margin Machine Classification to Regression	2297
<i>Xiaoming Wang, Xiangnian Huang</i>	
On the Optimal Solution of Primal Optimization Problem of One-Class SVM	2301
<i>Xiaoming Wang, Hong Peng</i>	
Wavelet Image Denoising Algorithm Based on Local Adaptive Wiener Filtering	2305
<i>Li Dan, Wang Yan, Fang Ting</i>	
Adaptive Redundant Second Generation Wavelet Packet in Mine Hoist Reducer Fault Detection	2308
<i>Hui Chen, Gui-yun Xu, Xiao-lei Hu</i>	
A Study on Battery Management System for Blade Electric Vehicle	2312
<i>Kun Zheng, Dong Chen, Yunfeng Liu,</i>	
Effects of Running Parameters on Blowing Performance of Impeller Blower	2316
<i>Zhiping Zhai, Yamei Wu, Xiaoling Han</i>	
Analysis and Design of an Adaptive Automated Trust Negotiation System	2320
<i>Wenliang Chen, Wenbao Jiang</i>	

Experimental Research on Optimizing the Layout of Electronic Components in Closed Electronic Equipment with Heat Pipe	2326
<i>Sun Shimei,Zheng Liqiu</i>	
Model of Excitation of Random Road Profile in Time Domain for a Vehicle with Four Wheels	2332
<i>Ren Hongbin,Chen Sizhong,Wu Zhicheng</i>	
A Multi-label Interactive Image Segmentation Method Based on Region Merging	2336
<i>Mo Chen, Yongbo Hou, Xianghui Zeng, Yinan Lu*</i>	
Design of Pin-plate Sliding Friction Coefficient Testing Platform	2341
<i>Haolei Shi,Tiequn Huang</i>	
Reliability evaluation of CNC machine tools based on Matter-Element Model and Extensional Evaluation Method	2345
<i>Shao Na,Shen Guixiang,Zhang Yingzhi,He Yu</i>	
Plan Recognition Algorithm of Data Extraction in Cloud Computing Environment	2349
<i>Tang Henan ,Qi Dejiang,Yan Hui</i>	
The Stability Design and Realization of Airborne Platform Based on TMS320F2812	2353
<i>Li Xinyang, Li Qingjun, Zhang Xuefei</i>	
Coordinated Control of AFS and ESP Based on Fuzzy Logic Method	2357
<i>Guo Jianhua, Chu Liang, Zhou Feikun ,Yao Liang,</i>	
Simulation Research of a Self-focusing Spherical Ultrasonic Transducer	2361
<i>Dong Chen, Kun Zheng, Yang Liu</i>	
A Personalized Search Engine Research Based on Bloom Filter	2365
<i>Mugen Pang,Guangwei Xu</i>	
A CMOS dB-linear Variable Amplifier Using Curvematching	2369
<i>Qi Yu, Wen Luo, Ning Ning, Zhenya Sun, Chengbi Wang, Yong Hu, Tianzhu Li</i>	
Research on Frequency Hopping Signals in Radar Receiver Based on Digital Channelized Method	2373
<i>Lili Zhang, Mingqin Wu, Zhiming He</i>	
The Data Mining of TCM Syndrome Diagnostic Criteria by the R_Apriori Algorithm	2377
<i>Yong-sen Jiang,Chu-xiang Chen</i>	
Research on modeling and application of test signal	2381
<i>Xu Aiqiang , Wen Tianzhu, Wang Yiping</i>	
Hand Tracking by Combining Enhanced Incremental Learning and Background Model	2385
<i>Xing Xiaofen, Guo Kailing, Qiu Suo, Xu Xiangmin</i>	
A Self-adaptation Data Publishing Algorithm Framework	2391
<i>Yongcheng Luo,Yaqian Jiang,Jiajin Le</i>	
Comparison between AEKF and EKF about Homing UAV under Passive Guidance	2395
<i>Cao Jian,Zhu Xiaoping</i>	
The Key Technology Of Distribution Transformer And Static Var Compensator Integration System ...	2399
<i>Xiong Qing,Zhang Zhe,Yin Xianggen</i>	

FPGA-based Energy Spectrum Measurement System Design	2403
<i>Hongguo Li,Hongyu Cao,Baohua Zheng</i>	
Research of Face Detection System Based on Skin-Tone Feature	2407
<i>Jing Bian,Wei Du</i>	
Research on Managing Private Key of PKI Users	2411
<i>Liping Zheng,Yujuan Zhao</i>	
Virtual Simulation of Fire Escape System	2415
<i>Da-chuan Wei</i>	
Improvement Based on DV-Hop Localization Algorithm of Wireless Sensor Network	2421
<i>Wangsheng Fang,Guangyu Yang</i>	
Web Service Composition Based on the Caching Pool	2425
<i>Yajuan Song, Jing Bian,Ping Feng</i>	
Implementation of Control Algorithm for Interception and Hunting by AmigoBot Robots	2429
<i>Shulin Feng,Tailei Wang</i>	
A Hybrid Constraints Scattered Genetic Algorithm with Interior Point Method	2434
<i>Wenxing Xu, Zhenyu Wang, Qunxiong Zhu*, Zhiqiang Geng,</i>	
Bisecting Grid-Based SVM Ensemble	2438
<i>Shangping Zhong,Daya Chen</i>	
KCCA feature fusion in Universal Steganographic Detection	2442
<i>Shangping Zhong,Chao Ke</i>	
A New Measurement System Based on Photoelectric Colorimetry	2447
<i>Gehua Chen,Yuhang Wang</i>	
Mechanism research on the electrical discharge WED machining of engineering ceramics materials	2451
<i>Li Xue, Xiong Jian-qiao, Yuan Xin-fang,Fan Jiu-chen</i>	
Study for spray characteristic of an internal-mixing air atomizing nozzle	2454
<i>Liuqing Xu,Yuming Xing</i>	
ANFIS-based Fault Diagnosis Cloud Model of Oil Parameter for Automobile Engine	2458
<i>Kong Lifang, Wang Zhe,Zhang Wei</i>	
Design and Implementation of Music Player based on Android	2463
<i>Yu Xiang,Chen Chao,Qi Jing</i>	
Application of active disturbance rejection controller for high precision servo system	2467
<i>Li Xinghua,Chen Wenlei,Zhang Yajuan</i>	
The Design of Underwater Speech Communication Codec System Based on AMBE-3000	2471
<i>Jian Luo, Hongwei Zhou ,Yi Li,Minglei Lu</i>	
Rule-Based Multi-Constraint Transit Signal Priority Control Strategy	2476
<i>Dong Yu-pu,</i>	
Research on Algorithm Recognition Based on Characteristic Expression	2480
<i>Fang Xia,Lv Hong</i>	

Simulation of SCI/RT Data Bus	2484
<i>Jing Yin,Nana Zhang,Shuguang Zhang,Jian Cui</i>	
Data Rapid Finding Scheme Design	2488
<i>Meng Liu,Fang Liu,Ming-hao Tian</i>	
Research and Implementation on application system development based on MDA	2491
<i>Ming Deng, Tao Tang</i>	
Study on Expansion and Non-Expansion of UKF	2494
<i>Li Heng, Zhang Jing-yuan, Luo Xuan</i>	
Error Estimation Method of SINS Based on UKF in Terrain-Aided Navigation	2498
<i>Li Heng, Zhang Jing-yuan, Shen Jian</i>	
A New Method for Detecting Real-Time Geopressure from Drilling-Logging Parameters	2502
<i>Li Gongquan,Wang Zhizhan</i>	
Research on Water Resources Decision Support System Integrated with Facilities	2507
<i>Li Gongquan,Xiao Keyan</i>	
Study on T-Test Method to Find Linear Systematic Error	2511
<i>Hairong Zou</i>	
A novel evolutionary algorithm for the traveling salesman problem	2515
<i>Chengjun Li,Si Xu,Yong Xia,Wei Zhan</i>	
The Research of Multi-modality Control Strategy of Arc Furnace Electrode Regulation	2518
<i>Hai-bo Liu</i>	
Self-adaption Wavelet Packet based on Improved Threshold Algorithm	2522
<i>Jiang Yong, Wang Yaping</i>	
The improved quantum genetic algorithm applied in the intelligent fault diagnosis of neural network ..	2526
<i>Hao Xiang,Desheng Wang</i>	
Adaptive Morphological Wavelet Filter Used in Gravimeter Signal Processing	2530
<i>Zhao Liye,Li Hongsheng*</i>	
A MST-Based and New GA Supported Distribution Network Planning	2534
<i>You Li,Xianrong Chang</i>	
Research and Implementation of Using AJAX Technology to Improve the User Experience	2539
<i>Hongyu Cao,Yue Gao,</i>	
The Application of Computational Experiments in Water Conservancy Investment	2543
<i>Fengping Wu,Decai Kong</i>	
Research on the Third Party Supplier of Reverse Logistics Selection under Low-carbon Economic Society	2547
<i>Jianguo Zhou, Bin Li,Yingxue Wang</i>	
Application of LabVIEW in the Design of Data Acquisition and Signal Processing System of Mechanical Vibration	2551
<i>Zhao Hua</i>	
A SOA Based IOT Communication Middleware	2555
<i>Wang Zhiliang, Yang Yi, Wang Lu, Wang Wei</i>	

A novel scheduling method of bandwidth optimization of the CAN network	2559
<i>Zhao Zheng-chun, Tan Yue</i>	
Feature extraction Based on the Principal Component Analysis For Pulsed Magnetic Flux Leakage Testing	2563
<i>Tang Ying, Pan Meng, Chun Luo, Fei Lu</i>	
Regression-based Modeling Methods for Solar Radiant Exposure	2567
<i>Wang Zhe, Mi Zengqiang, Wang Fei, Liu Liqing</i>	
Simulation Study on in-cylinder Combustion Process for High Pressure Common Rail Diesel Engine ...	2571
<i>Xu Yuna, Jiang Bei-ping, Hong Wei*, Cao Xiao-feng</i>	
Research on the Electric Field of Electrorotation Effect using Passive Electrostatic Human Body Detection System	2575
<i>Yan Zhang, Lixin Xu</i>	
Application of Wireless Communication Technology in the Construction of Intelligent Community Wireless Network System	2580
<i>Quanling Mu</i>	
Ring pole Assignment and Variance-constrained Synthetical Control for Random Constant System	2584
<i>Guowan Zhang</i>	
Control Strategy for Optimized Operation of Traditional Arc Suppression Coil of 35 kV Grid	2588
<i>Yanbin Xie, Xiaofang Wang, Qingyue Luo, Jiafang Liu</i>	
The Monitoring Expert System of Colliery Safety Production	2592
<i>Lu Jingxuan, Sun Jing, Li Yimin</i>	
Study on Mechanism of Energy Saving for Double Motor Configuration Hybrid Electric Vehicle	2596
<i>Liu Jishun, Li Jun, Wang Qingnian, Wang Jiayue, Song Jinhu</i>	
Fractured Vuggy Reservoir Prediction Combined Seismic and Well Logging Data Based on BP Network	2603
<i>Yixin Yu, Jinchuan Zhang, Zhijun Jin, Shixing Wang</i>	
Development of Linear Servo Control System for CNC Machine Tool Based on DSP	2607
<i>Kaiyun Xu, Jian Lin, Ning Li, Chuan He</i>	
Research on the Connection Equipment of Testing Sensor about Machinery	2611
<i>Piao Yinghua, Wang Yongli</i>	
Numerical Simulation of Springback base on Formability Index for Auto Panal Surface	2615
<i>Wang Jinwu, Ma Tao</i>	
The Research on LMS Adaptive Filter Based on Multi-Scale Domain	2619
<i>Zhang weijun</i>	
Design of Electric Loading System in Flight Simulator Based on PIDNN	2623
<i>Liu Changhua, Song Hua</i>	
Development of a Nonlinear Control Strategy for the DC Power Transferring System	2627
<i>Gang Yang, Abdelkrim Benchaib, Guillaume De-Preville</i>	

Author Index