

4th National Conference on Electrical, Electronics and Computer Engineering (NCEECE 2015)

Advances in Engineering Research Volume 47

Xi'an, China
12 – 13 December 2015

Part 1 of 2

Editors:

Jian Wang
Peng Xu

ISBN: 978-1-5108-1908-5

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2015) by Atlantis Press
All rights reserved.
<http://www.atlantis-press.com/php/pub.php?publication=nceece-15>

Printed by Curran Associates, Inc. (2016)

For permission requests, please contact the publisher:

Atlantis Press
Amsterdam / Paris

Email: contact@atlantis-press.com

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

PART 1

SESSION 1: ELECTRONICS, ELECTRIC AND POWER

RESEARCH ON QUANTIZATION SCHEME IN THE SECRET KEY EXTRACTION FROM RECEIVED SIGNAL STRENGTH	1
<i>Chengzhi Yang, Ting Jiang</i>	
RESEARCH ON DIAGRAM AUTOMATIC GENERATION BASED PANORAMA DISPATCHING TECHNOLOGIES FOR SMART GRID	7
<i>Wenchong Fang, Taifeng Kang, Yonggang Li, Shouyu Liang, Ruipeng Zhang, Ruipeng Zhang, Bin Zhang</i>	
STUDY ON RESERVE CAPACITY OPTIMIZATION MODEL OF WIND AND SOLAR POWER GENERATION SYSTEM BASED ON MULTI-OBJECTIVE OPTIMIZATION	12
<i>Xiupeng Chen, Feng Lu, Yiping Cheng</i>	
FORECAST ON SHORT-TERM WIND SPEED AND WIND FARM POWER GENERATION	21
<i>Yiping Cheng</i>	
DEVELOPMENT OF FBG TENSION AND TILT SENSORS APPLIED TO ICE MONITORING OF OVERHEAD TRANSMISSION LINES	28
<i>Dengjin Wu</i>	
RESEARCH ON THE DESIGN OF LOWER COMPUTER OF DATA ENCRYPTION SYSTEM	32
<i>Honghui Lai, Juan Zhong</i>	
EVALUATION OF LOW COST FRESNEL LENS FOR PORTABLE CONCENTRATED SOLAR CELL APPLICATION	36
<i>Bo Zhang, Chaolu Xing, Xiaolin Dai</i>	
DISCUSSION ON ELECTROMAGNETIC WAVES UNDER THE CIRCUMSTANCES OF TOTAL INTERNAL REFLECTION AND OPTICAL TUNNELING	43
<i>Yan Sun</i>	
ANALYSIS ON THE PERFORMANCE OF THE OPTICAL FIBER PRESSURE SENSOR AND APPLICATION TECHNOLOGY	49
<i>Wei Hou</i>	
TEMPERATURE AND HUMIDITY SENSOR RESEARCH BASED ON MONOBUS TECHNOLOGY	53
<i>Qingxiu Wu, Guofang Zhang, Lili Yan</i>	
STUDY OF LED ELECTRONIC WRITING SCREEN BASED ON SINGLE CHIP	57
<i>Dengjin Wu</i>	
DESIGN OF A NEW TYPE AIR-TO-GROUND POWER GRID'S HOT SPOTS' MONITORING AND CONTROL SYSTEM	62
<i>Hongzhao Li, Fumin Yang</i>	
RESEARCH ON THE INTELLIGENT POWER COMMUNICATION NETWORK MANAGEMENT INFORMATION MODEL BASED ON THE WEB TECHNOLOGY	68
<i>Qi Xue, Zhirong Liang, Dawang Cheng</i>	
RAPID TESTING METHOD OF NEW GENERATION SMART SUBSTATION NETWORK CONFIGURATION	72
<i>Wang Lei, Li Jin</i>	
AN INFORMATION SECURITY CONTROL METHOD OF SMART SUBSTATION	77
<i>Su Jin, Li Lei</i>	
HARDWARE IMPLEMENTATION OF RATE CONTROL FOR MOTION JPEG2000	82
<i>Yang Shijie</i>	
ANALYSIS OF INVERTER CIRCUIT OF SINUSOIDAL PULSE WIDTH MODULATION WITH KEYSTONE WAVEFORM	88
<i>F. Huang</i>	
A PARALLEL HEVC ENCODER SCHEME BASED ON MULTI-CORE PLATFORM	92
<i>Hu Jun</i>	
DESIGN AND REALIZATION OF PULSE COMPRESSION METHOD OF RADAR SYSTEM BASED ON FPGA	99
<i>Chenjun She, Xiefeng Cheng, Wei Jiang, Lishan Ding</i>	

THE RESEARCH AND DESIGN OF A NEW KIND OF MULTI-FUNCTIONAL LASER MARKING SYSTEM BASED ON EMBEDDED MICROPROCESSOR.....	103
<i>Yafeng Yu, Kaijin Qiu</i>	
MICRO RF SENSOR APPLIED IN GRID RADIO MONITORING SYSTEM.....	110
<i>Shi-Min Xu, Hong-Bing Yu, Fei-Huang Chu</i>	
REAL-TIME SIGNAL ACQUISITION SYSTEM FOR MULTI-CHANNEL BIOELECTRICAL SENSING APPLICATION.....	116
<i>Nan Li, Dong Wang, Qingjiang Li, Zhaolin Sun</i>	
RESEARCH ON POWER SYSTEM TRANSIENT STABILITY ASSESSMENT BASED ON STATISTICAL LEARNING THEORY.....	120
<i>Wanyu Xu</i>	
RESEARCH ON RISK ASSESSMENT OF SMART GRID PROJECT.....	126
<i>Xu Wanyu</i>	
THE ULTRASONIC SENSOR SYSTEM BASED ON THE CHIP OF SH79F32.....	131
<i>Wenkai Zhang</i>	
CHARACTERIZING INSTANTANEOUS DIFFERENCE BETWEEN RECEIVED POWERS AT TWO ENDS OF A BIDIRECTIONAL OPTICAL WIRELESS COMMUNICATION LINK THROUGH ATMOSPHERIC TURBULENCE.....	135
<i>Chunyi Chen, Huamin Yang, Chunfeng Xu, Yan Lou</i>	
THE RESEARCH ON ANTI-INTERFERENCE PERFORMANCE OF AMBIGUITY FUNCTION BASED DIGITAL COMMUNICATION SYSTEM.....	141
<i>Xiaodong Han, Fei Gao, Jiacong Fang</i>	
ARCHITECTING SENSOR NETWORKS PUBLISH/SUBSCRIBE APPLICATIONS: A SEMANTIC TECHNOLOGY-ORIENTED APPROACH.....	148
<i>Biao Dong, Jinhui Chen</i>	
DESIGN OF THE TEMPERATURE AND HUMIDITY SENSOR AND VIBRATION SENSOR INTERFACE CIRCUIT FOR THE INTELLIGENT MANAGERIAL SYSTEM OF BLASTING EQUIPMENT LIBRARY.....	153
<i>Xingshan Li, Yuanshen Guo, Jian Lu</i>	
A STUDY OF SPECTRUM SHARING TECHNOLOGY BASED ON 230MHZ PRIVATE SPECTRUM OF ELECTRIC POWER SYSTEM.....	158
<i>Yidong Yuan, Dongyan Zhao, Guangyu Wu, Gang Xie</i>	
STUDY OF CURRENT STATUS AND DEVELOPMENT OF PHOTOELECTRIC CURRENT TRANSFORMER TECHNOLOGY.....	166
<i>Haijiang Sun, Jibiao Hou</i>	
THE PRACTICAL INQUIRY OF THE AC WITHSTAND VOLTAGE TEST TECHNOLOGY OF THE SAME FREQUENCY AND PHASE BASED ON THE GIS EQUIPMENT.....	170
<i>Ting Yuan, Bingfu Xu, Qiang Gu, Bibo Chen</i>	
STUDY ON THE APPLICATION OF GIS IN THE SAME FREQUENCY AND PHASE AC VOLTAGE TEST METHOD.....	174
<i>Qiang Gu, Xiaoyu Weng, Ting Yuan, Liang Wang</i>	
OPTIMIZATION DESIGN ON RELIABILITY OF THREE-STATE ELECTRICAL REDUNDANT SYSTEM.....	178
<i>Zhiliang Wu, Yubin Yao, Dan Wang</i>	
COMPARISON AND RESEARCH ON INSULATION MONITORING METHODS FOR MARINE POWER SYSTEM.....	183
<i>Wanxuan Zhu, Zhiliang Wu</i>	
A METHOD RESEARCH BASED ON ACCELERATION UNBALANCE POWER FAST ESTIMATION OF GENERATOR TRIPPING SENSITIVE SPOT SEARCH.....	189
<i>Ying Liu, Wei-Ting Xu, Quan Tang, Han Feng</i>	
STABILIZATION METHOD OF ISLANDED DC MICROGRID BASED ON THE EXACT FEEDBACK LINEARIZATION.....	197
<i>Zhonglin Yang, Xiaoming Zha</i>	
RESEARCH ON THE HIGH-SPEED IMAGE ACQUISITION AND STORAGE TECHNOLOGY BASED ON TMS320C6748.....	204
<i>Qiang Wu, Tao Song, Xuwen Li</i>	
PAPR REDUCTION OF OFDM SIGNAL FOR VISIBLE LIGHT COMMUNICATION BY USING HARTLEY TRANSFORM AND COMPANDING TECHNIQUES.....	208
<i>Zhongpeng Wang, Fangni Chen, Jianfeng Weng</i>	
APPLICATION OF FIREFLY ALGORITHM OF SOLVING DISTRIBUTION NETWORK RECONFIGURATION.....	214
<i>Wenxiang Liu</i>	

MOLTEN AREA DETECTION IN LASER CLADDING BASED ON VISION DETECTION	220
<i>Yaowei Yong, Wei Fu, Dianbin Chen, Qilin Deng</i>	
VULNERABILITY ANALYSIS OF SATELLITES IN STRONG ELECTROMAGNETIC ENVIRONMENT	228
<i>Li-Wen Guo, Zhan-Yue Zhang, Zhe Zhang</i>	
MICROSTRUCTURE FORMATION AND TOUGHENING EFFECT OF TIAL BASED MICROLAMINATE SHEET DEPOSITED BY ELECTRON BEAM	235
<i>Lu-Ju He, Li Ma, Xian-Yi Shao</i>	
DESIGN OF HIGH PRECISION CURRENT SIGNAL SOURCE ON DDS	241
<i>Ya Kun Han, Xue Song Suo</i>	
EFFECTS OF PLUME HEAT FEEDBACK IN HEPTANE POOL FIRES: INSIGHT FROM THEORY AND SIMULATION	247
<i>Jie Li, Jinyun Pu, Kai Ren</i>	
BLIND ESTIMATION OF WIDE-BAND FREQUENCY-HOPPING SIGNAL BASED ON COMPRESSED NUMERAL CHARACTERISTICS	252
<i>Xun Lu, Lichun Li, Zhong Liu</i>	
ANALYSIS OF BUILDING LOAD AND ENERGY CONSUMPTION FOR PINGYI PASSIVE AND ULTRA LOW-ENERGY CONSUMPTION SCIENCE MUSEUM	259
<i>Wenyin Song, Zhao Wang</i>	
AN ULTRA-LOW-POWER INTEGRATED RF FRONT-END BASED ON CHIP TRANSFORMER FOR UWB SYSTEM	264
<i>Yi Li, Chunhua Wang, Kui Fu</i>	
THE DESIGN OF ELECTRICAL CONTROLLING CORE FOR THE CHINESE MEDICINE STEAM HEAT TREATMENT DEVICE	271
<i>Mu-Yuan Jiang, Yu-Duo Wang</i>	
A NOVEL NEW ENERGY POWER TRANSMISSION SYSTEM AND ITS COORDINATE CONTROL STRATEGY	278
<i>Xi Wang, Gang Chen, Pengfei Hu</i>	
ANALYSIS ON FERRORESONANCE OVER-VOLTAGE OF UHV CONVERTER TRANSFORMER BUSHING TAP	283
<i>Ming Tang, Lijie Ding, Fan Tang, Gang Chen</i>	
WAVELET-BASED POWER NETWORK DISTURBANCE IDENTIFYING PART I: THEORY AND METHOD	290
<i>Gang Chen, Ming Tang, Lijie Ding, Hua Zhang</i>	
WAVELET-BASED POWER NETWORK DISTURBANCE IDENTIFYING PART II: APPLICATION IN LARGE SCALE POWER SYSTEM	295
<i>Gang Chen, Bo Zhou, Hua Zhang, Lijie Ding</i>	
ONE TRANSFORMER INRUSH CURRENT CALCULATION METHOD BASED ON FIELD-CIRCUIT-NETWORK COUPLED CO-SIMULATION	299
<i>Xiaobin Liang, Yanbo Shen, Wei Wei</i>	
A 6GHZ INPUT BANDWIDTH TRACK-AND-HOLD CIRCUIT IN HBT TECHNOLOGY	304
<i>Yujun Yang, Yao Li, Yu Zhou, Jun'An Zhang, Jun Liu, Jing Li, Dongbing Fu, Guangbing Chen</i>	
MODELING AND SIMULATION OF DIGITAL FILTER	310
<i>Jie Zhao</i>	
DEPOSITION AND DISSOLVING OF SILVER NANOWIRES FOR MICRO CIRCUITS	316
<i>Jing Wang, Zhe Wu</i>	
THE DEVELOPMENT OF THE POWER MANAGEMENT CIRCUIT OF VIBRATIONAL ENERGY HARVESTING DEVICES	322
<i>Yushi Chen, Yuming Fang, Liqun Ding, Mengyuan Yang, Fe Niu</i>	
AN ADAPTIVE UKF FILTERING ALGORITHM FOR SELF ALIGNMENT IN THE SWAYING BASE OF SINS	327
<i>Wan-Xin Su</i>	
QUASI TWO DIMENSIONAL DEPOSITED SILVER NANOWIRES FOR NANO SCALE CIRCUITRY IN AN ULTRATHIN LAYER SYSTEM	334
<i>Jing Wang, Hao Zhu</i>	
ADAPTIVE MODULATION AND CODING WITH COOPERATIVE TRANSMISSION IN MIMO FADING CHANNELS	340
<i>Yuling Zhang, Qiuming Ma</i>	
AN IMPROVED HYBRID MULTILEVEL CONVERTER FOR RENEWABLE ENERGY GENERATION	345
<i>Pengfei Hu, Xinwei Sun, Xi Wang, Lun Tang, Wei Tang</i>	

AN IMPROVED ALLAN VARIANCE METHOD USED FOR THE CHARACTERISTICS ANALYSIS OF THE BAND-PASS MIXED NOISE	350
<i>Mingming Liu, Manman Huang</i>	
GRID EQUIPMENT MALFUNCTION PREDICTION OF ASSOCIATION RULES MERGING WITH GRAY BP	357
<i>Hu Zhang, Hongbin Wang, Feng Li</i>	
PROBLEMS IN SUBSTATION EQUIPMENT MAINTENANCE AND REPAIR.....	362
<i>Dan Yuan</i>	
STUDY AND APPLICATION OF THE TRAINING SYSTEM OF DISASTER PREVENTION AND EARLY WARNING OF ELECTRIC POWER	366
<i>Jianhua Liu, Tao Hong, Dongwei Xu</i>	
RADAR SIGNAL SORTING METHOD IN DUAL AIRBORNE-PLATFORM COOPERATIVE RECONNAISSANCE.....	370
<i>Gang He, Hao Liu, Xin Li, Qin-Huang Huang</i>	
MECHANISM RESEARCH AND DISCUSSION FOR ELECTROMAGNETIC PROJECTION BIDIRECTIONAL WEFT INSERTION GRIPPER LOOM	375
<i>Chi Zhang, Xiaolong Lei, Xiaoguang Wu, Li Zhu, Daoyu Wan, Bo Yuan</i>	
IMPROVING HEAD ORIENTATION PREDICTION WITH ELECTROMYOGRAPHY SIGNALS IN A VIRTUAL REALITY FLIGHT SIMULATOR.....	379
<i>Dongsu Wu, Peng Li, Lin Wang, Lihao Liu, Hongbin Gu</i>	

SESSION 2: COMPUTER SCIENCE AND ENGINEERING

ANALYSIS OF GRADUATION THESIS INFORMATION BASED ON DECISION TREE	384
<i>Mengyi Li, Jiuru Dai, Zhigang Zhang</i>	
CALCULATION OF WAXY CRUDE PIPELINE TEMPERATURE FIELD	390
<i>Sen Hu</i>	
RESEARCH ON UNIVERSITY DATA STATISTICS SERVICE PLATFORM BASED ON DATA WAREHOUSE.....	397
<i>Jinlian He</i>	
APPLICATION OF OPEN NETWORK KNOWLEDGE IN DATA MINING AND INFORMATION RETRIEVAL	400
<i>Ruren Deng, Yinghuan Wu</i>	
STUDY ON NUMERICAL COMPUTATION METHOD IN ADVANCED MATHEMATICS.....	403
<i>Wei Li</i>	
CHINESE TEXT CLASSIFICATION BASED ON ANT COLONY OPTIMIZATION	408
<i>Xin Luo</i>	
RESEARCH ON DYNAMIC VIEWPORT DISPLAY METHOD FOR AUTOMATIC GENERATION OF POWER FLOW DIAGRAM.....	413
<i>Wenchong Fang, Taifeng Kang, Bin Zhang, Shouyu Liang, Ruipeng Zhang, Ruipeng Zhang, Yonggang Li</i>	
CHINESE TEXT CLASSIFICATION BASED ON PARTICLE SWARM OPTIMIZATION.....	419
<i>Xin Luo</i>	
BASEBAND DESIGN OF BROADBAND WIRELESS AD HOC NETWORK AND CROSS-LAYER OPTIMIZATION OF TRANSMISSION POWER CONTROL.....	425
<i>Chun Wei, Ming Li</i>	
STUDY OF PLATFORM PASSENGER EVACUATION SIMULATION BASED ON GPU.....	430
<i>Zhiyong Cai, Qianni Deng</i>	
DESIGN AND IMPLEMENTATION OF FITNESS ENGINEERING SYSTEM BASED ON BIG DATA ANALYSIS.....	437
<i>Yongjian Li</i>	
RESEARCH ON THE APPLICATION OF PHYSICAL INFORMATION SEARCHING BASED ON THE INTERNET	441
<i>Linwang Zhou</i>	
TWO-DIMENSIONAL CODE SECURITY IMAGE AND ITS APPLICATION IN DESIGN OF FOOD TRACEABILITY SYSTEM.....	445
<i>Hui Feng, Bin Luo</i>	
RESEARCH ON APPLICATIONS OF INFORMATION TECHNOLOGIES IN MEDICAL IMAGE AREA.....	450
<i>Juan Zhong, Honghui Lai</i>	

RESEARCH OF THE DATA SECURITY RELATED ISSUES IN CLOUD COMPUTING SERVICES	454
<i>Nan Hu</i>	
THE WIRELESS NETWORKING RESEARCH BASED ON ZSTACK	458
<i>Qingxiu Wu, Shuqing Li, Guofang Zhang</i>	
APPLICATION AND DESIGN OF NEW MEDIA IN MUSEUM EXHIBITION AND DISPLAY	462
<i>Jinxiu Wang</i>	
DEVELOPMENT AND RESEARCH OF DATA ACQUISITION SYSTEM	466
<i>Cen Li</i>	
RESEARCH ON ALGORITHM OF FREQUENT SUBTREE MINING	469
<i>Xin Guo, Changguo Xiang</i>	
RESEARCH OF GRAPH MINING BASE ON CLOUD	475
<i>Cen Li</i>	
STUDY ON A FAST ALGORITHM FOR MINING DISORDER TREE	480
<i>Xin Guo</i>	
STUDY ON A RAPID EXPORT SUBTREE MINING ALGORITHM	484
<i>Xin Guo</i>	
A NOVEL TREE CLUSTER AND CLASSIFICATION APPROACH BASED ON LEAST CLOSED TREE	488
<i>Xin Guo</i>	
THE ANALYSIS OF STROKE INCIDENCE BASED ON THE MULTIVARIATE SUCCESSIVE REGRESSION ANALYSIS	498
<i>Gaofeng Hui</i>	
RESEARCH ON THE MOBILE COMMUNICATION NETWORK OPTIMIZATION BASED ON THE CLOUD COMPUTING MODEL	504
<i>Yan Guo</i>	
RESEARCH ON THE ROUTING PROTOCOL ANALYSIS IN WIRELESS AD HOC NETWORKS	508
<i>Yang Liu</i>	
DESIGN AND IMPLEMENTATION OF FOOD TRACEABILITY SYSTEM BASED ON TWO DIMENSIONAL CODE	512
<i>Tingting Li, Bo Li, Dechang Huang</i>	
THE RESEARCH ON BIG DATA SECURITY ARCHITECTURE BASED ON HADOOP	517
<i>Zhuang Miao</i>	
RESEARCH OF APPLICATION OF MATLAB NUMERICAL ANALYSIS METHODS ON ELECTRICAL ENGINEERING	521
<i>Miao Li, Ran Jia</i>	
SOCIAL WORK IN TEEN ADDICTION CORRECTION SERVICES RESEARCH UNDER THE NEW SITUATION	524
<i>Shiyong Zheng, Weili Guan, Biqing Li, De-Ze Qin</i>	
THE RAMSEY TYPE MODEL WITH ENDOGENOUS BIRTH RATE	528
<i>Wang Donghan, Yang Jun, Zhu Huan</i>	
A NEW PROCESSOR DESIGN BASED ON 3D CACHE	533
<i>Shan Lei, Liu Guangbao, Xie Song</i>	
RESEARCH ON A REMOTE SENSING IMAGE CLASSIFICATION ALGORITHM BASED ON DECISION TABLE	538
<i>Yang Dehui, Song Yong, Zhang Kai</i>	
INTELLIGENT INFORMATION SYSTEMS AND DIGITAL LIBRARIES	543
<i>Zhu Yuqing</i>	
BENCHMARK TESTING FOR TRANSWARP INCEPTOR—A BIG DATA ANALYSIS SYSTEM BASED ON IN-MEMORY COMPUTING	547
<i>Chen Mingang, Liu Zhenqiang, Liu Wanggen</i>	
A SPECTRUM EFFICIENT NODE CLUSTERING METHOD FOR WMSN	552
<i>Xiong Zheyuan</i>	
TRADITIONAL CHINESE PAINTING SIMULATION ALGORITHM BASED ON PARTICLE SYSTEM	558
<i>G. Jiang</i>	
JOINT OPTIMIZATION OF SMART ANTENNA SYSTEM AND WIRELESS MESH NETWORK	564
<i>Xie Yulong</i>	
CASCADED SIGMA-DELTA MODULATOR WITH DUAL QUANTIZATION ARCHITECTURE AND AN INTER-STAGE FEEDBACK PATH	570
<i>Xie Yu</i>	

LIVER SEGMENTATION WITH SEMI-SUPERVISED LEARNING	575
<i>Li Yonghui, Liu Xiaoxiao</i>	
RESEARCH ON MANAGEMENT PLATFORM CONSTRUCTION OF USERS AND RECOURSES BASED ON MULTI-EXPORT CAMPUS NETWORK	583
<i>Jing Qi, Sun Shan, Yang Runyuan</i>	
AN INFLUENCE CALCULATING METHOD BASED ON MOBILE PHONE DATA	589
<i>Chen Yancui</i>	
SEGMENTATION OF NOISY AND TEXTURED IMAGES BY AN EXPECTATION MAXIMIZATION AND GRADIENT DESCENT ITERATION METHOD	594
<i>Yang Zhenzhou</i>	
EFFICIENT ACOUSTIC MODELING METHOD FOR UNSUPERVISED SPEECH RECOGNITION USING MULTI-TASK DEEP NEURAL NETWORK	600
<i>Haitao Yao, Maobo An, Ji Xu, Jian Liu</i>	
RESEARCH ON RUMOR EARLY WARNING MECHANISM BASED ON KINETIC ENERGY	606
<i>Liu Li, Yang Fengming</i>	
AN EVALUATION METHOD OF ACCESS CAPACITY IN DISTRIBUTION NETWORK	613
<i>Nie Mingjun, Leng Fengchuan, Zhu Hua, Peng Liang</i>	
RESEARCH ON THE CLASSIFICATION OF THE ADVANCED MANUFACTURING MODE	618
<i>Qinghui Dai, Hongmei Li</i>	
A FREQUENCY OFFSET ESTIMATION ALGORITHMS FOR OFDM MIXED SIGNALS	622
<i>Wei-Cheng Xue, Changjiang Huang, Jun Ju</i>	
THE FEASIBILITY OF LONG CYCLE TIME SYNCHRONIZATION FOR WIRELESS SENSOR NETWORKS	629
<i>Fuqiang Wang, Xiaoming Wu, Hong Liu, Yifan Hu, Xiangzhi Liu</i>	
NEURAL NETWORK-BASED METHOD FOR ANTI-GLARE GLASS PREPARATION PROCESS PARAMETERS OPTIMIZATION	633
<i>Jianli Yu, Hongqi Huang, Xiaojuan Niu</i>	
ACADEMIC LIBRARIES DATA ANALYSIS USING DATA MINING	638
<i>Yuqing Shi, Yuelong Zhu, Jinghong Su, Lanfang Zhu, Dongmin Wu, Chen Lin</i>	
CLUTTER MODELING BASED ON SIRP PRINCIPLE	642
<i>Bin Wang, Xin Song, Fengming Xin</i>	
THE RESEARCH AND DESIGN OF REMOTE MCU LEARNING PLAFORM BASED ON THE COMBINATION OF VIRTUAL AND REALITY	646
<i>Chunrong Chen, Kaijin Qiu</i>	
RESEARCH ON THE INTEGRATION AND PERFORMANCE OF EMOTION CONCEPT IN VISUAL COMMUNICATION DESIGN	652
<i>Huifang Li, Qi Wang</i>	
RESEARCH ON GRAPHIC SYMBOL EXPRESSION IN VISUAL COMMUNICATION DESIGN	657
<i>Xueqing Shi</i>	
THE RESEARCH ON QOS ROUTING ALGORITHM BASED ON IMPROVED OPTIMIZATION SORTING ANT COLONY ALGORITHM	661
<i>Chunhui Qiu, Yue Gong, Kaixi Zhou</i>	
PERFORMANCE EVALUATION OF FIRE ALARM SYSTEM BASED ON FPNN	666
<i>Wei Gou, Na Qu, Zhenliang Lan</i>	
AN ADAPTIVE K-NEAREST-NEIGHBOR INTERFERENCE ALIGNMENT ALGORITHM BASED ON MINIMIZING PROJECTION IN CELLULAR SYSTEM	670
<i>Longzhen Dai, Ran Duan, Weijia Cui, Daming Wang</i>	
HIGH ACCURACY INDOOR IMAGING POSITIONING ALGORITHM BASED ON ANGLE FEEDBACK WITH VISIBLE LIGHT	679
<i>Wenzuo Hou, Daming Wang, Yankui Zhang</i>	
HANDLEBAR APPEARANCE INSPECTION ALGORITHM BASED ON TWO-DIRECTION TRACE AND CHECK	684
<i>Jingfei Zhang, Kaijin Qiu</i>	
APPLICATION OF PRICE DISCRIMINATION IN THE NETWORK TEAM PURCHASE	690
<i>Yanqin Zhu, Jun Zhang, Jiajia Wang</i>	
A NOVEL KNOWLEDGE MODELING FRAMEWORK POTME AND ITS APPLICATION FOR COL-LABORATIVE PROBLEM SOLVING	695
<i>Jian Jiang</i>	
RESEARCH OF MULTIPLE-TYPE FILES CARVING METHOD BASED ON ENTROPY	719
<i>Jun Guo, Jingsha He, Na Huang</i>	

RESEARCH ON LOGISTIC MANAGEMENT QUALITY EVALUATION BASED ON SUPPORT VECTOR MACHINE	727
<i>Ya-Qing Deng, Shuang Yu, Ning Wang</i>	
A NOVEL DE-INTERLACING ALGORITHM BASED ON DYNAMIC THRESHOLD MOTION DETECTION	732
<i>Ye Yuan</i>	
RESEARCH ON SOFTWARE SAFETY GROWTH TESTING METHOD BASED ON FTPM MODEL	737
<i>Zhongxiao Ji, Guohua Jiang</i>	
INFORMATION SERVICES MODEL BASED ON PUBLISH/SUBSCRIBE FOR LARGE SCALE SENSOR NETWORKS	744
<i>Biao Dong, Jinhui Chen</i>	
POWER ALLOCATION SCHEME BASED ON SYSTEM OUTAGE PROBABILITY FOR ENERGY-HARVESTING COOPERATIVE NETWORKS	749
<i>Hao Wang, Qi Zhu</i>	
OPTIMIZATION AND CALCULATION OF PT-SN PHASE DIAGRAM	755
<i>Jieqiong Hu, Ming Xie, Shaoxia Sun, Jiming Zhang, Youcai Yang, Man Men Liu, Song Wang, Saibei Wang</i>	
THE APPLICATION OF SERVICE-ORIENTED INFORMATION SHARING PROGRAM IN GEOGRAPHIC INFORMATION SYSTEM	762
<i>Han Zhang, Jianhong Ma</i>	
TOPSIS BASED MULTI-RADIO ACCESS SCHEME IN HETEROGENEOUS WIRELESS NETWORKS	766
<i>Xuewen Zhu, Qi Zhu</i>	
A STUDY ABOUT THE IMPROVEMENT OF ANT COLONY ALGORITHM	772
<i>Wen-Zhe Liang, Qing-Yin Niu, Chao Fan</i>	
WEIGHTED IMMUNIZATION STRATEGY ON REAL NETWORKS	776
<i>Jia Zhao, Simeng Wang, Zixu Zhou, Zitong Zhou</i>	
RESEARCH AND IMPLEMENTATION PAAS PLATFORM BASED ON DOCKER	781
<i>Xugang Yin, Yanlei Shang</i>	
OBJECT SEGMENTATION USING STRUCTURAL RELATIONSHIP BETWEEN SUPER-PIXELS	787
<i>Yonghui Gao, Lei Zhou, Xiaoxiao Li</i>	
THE DESIGN AND IMPLEMENTATION OF THE SERVICE HOSTING AND DELIVERY PLATFORM BASED ON CLOUD	795
<i>Yanqiao Sun, Yanlei Shang</i>	
DESIGN OF A SPR SENSOR FOR EFFICACY EVALUATION OF TRADITIONAL CHINESE MEDICINE	801
<i>Helin Zhang, Guolong Zhang, Kang Zhang</i>	
AN ADAPTIVE TEXTURE SYNTHESIS ALGORITHM	805
<i>Xuewen Ding, Subramaniam Ganesan, Jing Chen</i>	
AN IMPROVED TRUST MECHANISM BASED ON THE SIMILARITY	811
<i>Daoquan Li, Ruimin Guo</i>	
AN APPROACH FOR PROTECTING THE OPENFLOW SWITCH FROM THE SATURATION ATTACK	818
<i>Mingxin Wang, Huachun Zhou, Jia Chen, Bo Tong</i>	
IMAGE ENHANCEMENT BASED ON ADAPTIVE MEDIAN FILTER AND WALLIS FILTER	824
<i>Dongjie Tan</i>	
APPROACH FOR UNCERTAIN MULTI-ATTRIBUTE DECISION-MAKING WITH INTERVAL NUMBERS COMPLEMENTARY PREFERENCE RELATION ON ALTERNATIVES UNDER PARTIAL WEIGHT INFORMATION	830
<i>Hong-An Zhou</i>	
VIRTUAL MACHINE MIGRATION STRATEGY BASED ON THE LOAD EVALUATION AND PREDICTION UNDER THE CLOUD ENVIRONMENT	836
<i>Yueqi Zi, Yongqiang Sun, Yi Sun</i>	
FUZZY COMPREHENSIVE EVALUATION OF RUNWAY INCURSION BASED ON FAULT TREE METHOD	842
<i>Baoshun Xiong, Haolin Cui, Yihui Li</i>	

PART 2

PRELIMINARY STUDY ON CHINA'S LOW-ALTITUDE AIRSPACE OPERATION SAFETY EVALUATION METHOD	846
<i>Qian-Rui Sun, Deng-Kai Yao, Yi-Ye Zhou</i>	
APPLICATION OF PLANT GROWTH SIMULATION ALGORITHM FOR PERMUTATION FLOW SHOP SCHEDULING PROBLEM	851
<i>Baohua Yan</i>	
TASK SCHEDULING ALGORITHM IN CLOUD COMPUTING BASED ON FAIRNESS LOAD BALANCE AND MINIMUM COMPLETION TIME	856
<i>Yizhen Wang, Yongqiang Sun, Yi Sun</i>	
OPTIMIZATION AND DESIGN ON HOTEL MANAGEMENT INFORMATION SYSTEM	863
<i>Chen Guo</i>	
INTERFERENCE DETECTION ALGORITHM OF AIRCRAFT COMPONENTS ASSEMBLY BASED ON MEASURED DATA	874
<i>Wei Zhang, Luling An, Qilin Jiang, Ruiheng Xiao</i>	
A NEW METHOD FOR THE DIAGNOSIS OF POWER BACKBONE COMMUNICATION NETWORK BASED ON EXTENSION RATING	881
<i>Li Li, Tiantian Luo, Huiqi Shen, Runze Wu</i>	
RESEARCH OF CYBERSPACE SITUATIONAL FACTORS ORGANIZATION CRITERION	887
<i>Zi Juan Luo, Cong Lin Wang</i>	
SYNTAX VALIDATION OF THE SQL CONDITIONAL EXPRESSION BASED ON POSTFIX-EXPRESSION EVALUATION	892
<i>Lijun Wei, Yang Pan, Hao Wang, Yan Zhang</i>	
RESEARCH ON CROWD BEHAVIOR BASED ON THE VELOCITY FIELD	899
<i>Fang Yuan, Ke Ma, Jia-Hong Liang, Yong-Jing Chao</i>	
RESEARCH ON PROTOCOL CONFORMANCE TESTING METHOD BASED ON PETRI NET	908
<i>De Qin Shu, Hao Fang, Liang Zhang</i>	
AN ENERGY EFFICIENT NODE SCHEDULING ALGORITHM OF WIRELESS SENSOR NETWORK	915
<i>Jie Chen, Xiao-Yu Li, Hai-Feng Zhao, Yue-Tong Chen</i>	
THE ANALYSIS OF THE THICKNESS-PREDICTIVE MODEL BASED ON THE SVM	922
<i>Xiu-Ming Zhao, Yan Wang, Zhimin Bi</i>	
RESEARCH ON PROCESS DATA COMMUNICATION THEORY IN THE EMU RECONNECTION UIC GATEWAY AND SIMULATION	927
<i>Tong Zhang, Changxian Li, Ke Zhao</i>	
RESEARCH ON FEATURE SELECTION AND KNN CLASSIFICATION METHOD IN CHINESE TEXT CLASSIFICATION	933
<i>Chao Xiao, Ping Wu</i>	
A NEW WATERMARKING ALGORITHM FOR POINT MODEL USING ANGLE QUANTIZATION INDEX MODULATION	940
<i>Xiaoqing Feng</i>	
RESEARCH ON CONVEXITY-PRESERVING OF THE WEIGHT FACTOR OF CUBIC NURBS INTERPOLATION CURVE	946
<i>Jiyuan Liu, Shaoping Chen</i>	
RESEARCH ON IDENTIFICATION AND CONTROL OF NETWORK TRAFFIC BASED ON SDN TECHNOLOGY	953
<i>Yangqun Li</i>	
ANALYSES OF PHP DYNAMIC WEBSITE DEVELOPMENT TECHNOLOGY IN THE ERA OF INTERNET +	958
<i>Yan-Xia Wu, Man-Li Jiang</i>	
IMAGE PROCESSING AND ANALYSIS BASED ON PARTIAL DIFFERENTIAL EQUATION METHOD	962
<i>Yeyang Jiang, Tianfu Chai</i>	
THE DESIGN OF PRIVATE CLOUD PLATFORM FOR COLLEGES AND UNIVERSITIES EDUCATION RESOURCES BASED ON OPENSTACK	968
<i>Guoxia Zou</i>	
THE DESIGN OF COLLEGES AND UNIVERSITIES EDUCATION RESOURCE PLATFORM BASED ON CLOUD COMPUTING	974
<i>Guoxia Zou</i>	
CORRELATION POWER ANALYSIS FOR AES ENCRYPTION DEVICE	980
<i>Xiaoyu Zhang, Kaiyan Chen, Yang Zhang, Weilong Gui, Lei Li</i>	

METHOD REALIZING BOTH PROTOCOL PERFORMANCE EVALUATION AND VALIDATION BASED ON PETRI NET	987
<i>De Qin Shu, Hao Fang, Liang Zhang</i>	
FAST AND ACCURATE DYNAMIC POWER ESTIMATION METHOD BASED ON COMPONENT	995
<i>Zhao Li, Yede Li, Xinghua Wu</i>	
STUDY ON AN INFORMATION SYSTEM OF VEGETABLE SAFETY PRODUCTION AND MANAGEMENT	1001
<i>Yihua Zhang, Dongming Li, Yu Wang, Jun Liu, Liang Gao</i>	
THE DATA ANALYSIS OF COLLEGE CAMPUS MEDIA WECHAT PUBLIC PLATFORM -- TAKE “VOICE OF NCIST” AS AN EXAMPLE	1007
<i>Dongmei Liu, Junsong Zhang</i>	
STUDY AND APPLICATION OF APRIORI ALGORITHM IN STUDENTS’ BEHAVIOR OF TAKING COURSES	1011
<i>Jing Lin</i>	
A FRAMEWORK OF APT DETECTION BASED ON DYNAMIC ANALYSIS	1017
<i>Yunfei Su, Mengjun Li, Chaojing Tang, Rongjun Shen</i>	
EFFICIENT REGULAR EXPRESSION GROUPING ALGORITHM BASED ON LABEL PROPAGATION	1024
<i>Xi Chen, Shuqiao Chen, Ming Mao</i>	
THE FIRST-ORDER DERIVATIVE OF ATMOSPHERIC ELECTRONIC FIELD IN AN OPTIMAL TIME WINDOW IMPROVES THE ACCURACY OF LIGHTNING WARNING	1031
<i>Fei Luo, Shuai Feng, Yajing Bian, Juan Liu</i>	
A DYNAMIC ID-BASED AUTHENTICATED GROUP KEY AGREEMENT PROTOCOL	1037
<i>Jun Zheng, Cheng Yang, Jinrong Xue, Can Zhang</i>	
AN IMPROVED FIREFLY ALGORITHM FOR TRAVELING SALESMAN PROBLEMS	1043
<i>Ming-Bo Wang, Qiang Fu, Nan Tong, Mengmeng Li, Yiming Zhao</i>	
AN EFFICIENT CPK-BASED KEY MANAGEMENT SCHEME IN WIRELESS SENSOR NETWORKS	1051
<i>Jun Zheng, Zhifu Chen, Jinrong Xue, Fan Wu</i>	
SURVEY OF ACTIVE LEARNING FOR NETWORKED DATA	1058
<i>Xinlei Wang, Bo Yang, Jing Huang</i>	
THE APPLICATION OF THE CAPON METHOD TO THE PARAMETER ESTIMATION OF INFRASOUND SIGNALS	1063
<i>Liang Meng, Xi-Hai Li, Wan-Gang Zhang, Dai-Zhi Liu</i>	
AN ALGORITHM OF THE TIME-DELAY ALIGNMENT BASED ON ITERATIVE ESTIMATION	1068
<i>Yang Li, Xiao-Yi Zhang, Yun-Peng Hu, Zhi-Xiang Shen, Biao Zhao</i>	
THE DIRECTION-FINDING STATIONS SCHEDULING ALGORITHM BASED ON BPSO	1076
<i>Tai-Chuan Sun, Jing Zhang, Xiao-Min Ran, Yao-Dong Li</i>	
THE TEMPORAL AND SPATIAL POSITIONING MODEL BASED ON THE PRINCIPLE OF ANALEMMATIC SUNDIAL IN DIFFERENT PARAMETERS	1082
<i>Yu Liu, Xuedong Zhu, Xuefa Xia</i>	
STUDY ON AN ADAPTIVE CODING AND DECODING SCHEME ON DISTRIBUTED SPACE-FREQUENCY CODING	1088
<i>Yu Li, Zemin Hou, Bao-Long Zhang</i>	
INFORMATION INTEGRATION OF ENGINEERING CONSTRUCTION PROJECT BASED ON MANAGEMENT PROCESS	1093
<i>Bo Cui</i>	
DESIGN OF CONSTRUCTION PROJECT MANAGEMENT INFORMATION SYSTEM BASED ON CPR THEORY	1099
<i>Bo Cui</i>	
COOPERATIVE COMMUNICATION IN CLUSTERED WIRELESS SENSOR NETWORK BASED ON LDPC CODES	1105
<i>Yuling Zhang, Wenwei He</i>	
INTELLIGENT BUILDING SECURITY SYSTEM DESIGN BASED ON INTERNET OF THINGS TECHNOLOGY	1111
<i>Bo Zhang</i>	
INFORMATION SECURITY TECHNOLOGY UNDER CLOUD COMPUTING TECHNOLOGY	1115
<i>Xiaojin Zhao</i>	
FUZZY PRINCIPLE ALGORITHM BASED ON MATHEMATICAL THEORY	1119
<i>Zhiliang Zhang</i>	

THE DESIGN AND APPLICATION OF GIS MATHEMATICAL MODEL DATABASE SYSTEM WITH META-ALGORITHM	1124
<i>Zhijiang Li</i>	
WEB SERVICES PLATFORM ARCHITECTURE MACHINE AND SOA MODEL DESIGN	1129
<i>Hongtao Liang, Jianliang Xu, Mingtao Liu, Xiaohong Wang</i>	
A NEW ALGORITHM FOR INTERNET IP LEVEL TOPOLOGY MEASUREMENT	1133
<i>Shaolei Wang, Lei Zhang, Chaojing Tang</i>	
IMAGE CONTOUR EXTRACTION METHOD BASED ON COMPUTER TECHNOLOGY	1139
<i>Huanliang Li</i>	
THE DESIGN AND IMPLEMENTATION OF REAL-TIME BUS MONITORING BASED ON 4G MOBILE INTERNET	1144
<i>Jian He, Yongtai Zhang, Mingwo Zhou, Yi Han</i>	
TEST CASE GENERATION FOR VULNERABILITY DETECTION USING GENETIC ALGORITHM	1152
<i>Bo Shuai, Haifeng Li, Jian Wang, Quan Zhang, Chaojing Tang</i>	
SEMI-SUPERVISED GAUSSIAN MIXTURE MODELS CLUSTERING ALGORITHM BASED ON IMMUNE CLONAL SELECTION	1158
<i>Wenlong Huang, Xiaodan Wang</i>	
DISCUSSION ON THE CONSTRUCTION OF DISASTER PREVENTION GREEN INFRASTRUCTURE NETWORK PLANNING	1165
<i>Yao Feng, Lusi Zhang, Mingqi Shao, Qi Meng</i>	
RESEARCH ON STRATEGIES OF SAFETY EVACUATION SIMULATION IN THE URBAN PUBLIC SPACE BASED ON VIRTUAL SIMULATION TECHNOLOGY	1172
<i>Yao Feng, Jieying Yang, Guanghao Li, Bingmiao Zhu</i>	
TACKLING MULTI-MEMBER PROBLEM IN IPTV RECOMMENDATION WITH VIRTUAL USERS	1178
<i>Peng Zhou</i>	
PROCEDURE-ORIENTED UNIVERSITY DIGITAL ADMISSIONS SYSTEM UNDER BIG DATA ENVIRONMENT	1186
<i>Yun Liu</i>	
WEB SERVICE COMPOSITION MODELING BASED ON PI CALCULUS	1194
<i>Yan Yang, Rong Li, Sai Wang</i>	
EVALUATION ON THERMAL PERFORMANCE OF SOLAR WATER HEATING SYSTEM OF HIGH-RISE HOUSE IN JINAN CITY	1199
<i>Jinglei Shi, Zhen Li, Di Li</i>	
THE STUDY ON DEVELOPMENT STRATEGY OF LOGISTICS SERVICES INDUSTRY IN CHINA	1205
<i>Yu Liu</i>	
RECOMMENDATION ALGORITHM OPTIMIZATION BASED ON MATRIX FACTORIZATION	1211
<i>Zhenzhen Liu, Dongping Xu</i>	
PARAMETER ESTIMATION OF DOUBLE EXPONENTIAL PULSE BASED ON ARTIFICIAL NEURAL NETWORK	1215
<i>Zhizhen Zhu, Yuewu Shi, Jing Yang, Xin Nie, Hui Zhou</i>	
VIRTUAL MACHINE SCHEDULING TO MINIMIZE RESOURCE WASTAGE IN CLOUD COMPUTING ENVIRONMENT	1221
<i>Yahui Zhu, Dan Chen</i>	
CLUSTERING ALGORITHM BASED ON TIME SERIES SIMILARITY TO WEB DATA CLUSTERING	1228
<i>Yan Yang, Hua-Xiong Yao, Rong Li</i>	
RESEARCH ON THE APPLICATION SCHEME OF ENTERPRISE DATA MINING BASED ON EXTENSION SET	1233
<i>Chunxu Jiang, Bo Guan</i>	
RESEARCH ON VIDEO OBJECT SEGMENTATION ALGORITHM	1237
<i>Bo Guan</i>	
MINING BIOMEDICAL ENTITY FROM LITERATURE BASED ON CRF	1241
<i>Lejun Gong, Ronggen Yang, Jiacheng Feng, Geng Yang</i>	
RESEARCH ON DATABASE DESIGN OF MILITARY EQUIPMENT DATA ENGINEERING	1245
<i>Xinhui Zhang, Wei Chen, Yiping Bao</i>	
SIMULATION OF POISSON PROCESS	1249
<i>Xinyue Hu, Tian Lei, HuaiPeng Zhang, Shuxiang Chen, Yang Xie</i>	

A NOVEL APPROACH TO RECOMMENDER SYSTEM BASED ON ASPECT-LEVEL SENTIMENT ANALYSIS	1254
<i>Yu Zhang, Ruifang Liu, Aodong Li</i>	
AN ELECTRICITY PRICING ORIENTED MEMORY CALCULATION HYBRID APPLICATION MODE	1260
<i>Haohan Hu, Chen Qi, Jinglin Guo</i>	
ELECTRIC VEHICLES OPERATIONS ORIENTED NETWORK AND DATA ANALYSIS	1264
<i>Haohan Hu, Qiang Luo, Jinglin Guo</i>	
A DESIGN METHOD FOR DIGITAL PHASE-LOCKED LOOP	1268
<i>Jiyuan Ru, Yujia Liu, Wei Xue</i>	
AN IMPROVED KNN ALGORITHM FOR PRODUCT QUALITY AND SAFETY INCIDENT INFORMATION TRACKING	1273
<i>Yingcheng Xu, Zhongbao Sun, Wei Jiang</i>	
RESEARCH ON CASE LIBRARY CONSTRUCTION OF ENERGY LOSS IN COUNTRY DISTRIBUTION NETWORKS WITH GREY RELATIONAL ANALYSIS	1277
<i>Ze Yuan, Xuefei Zhu, Jianhua Yang, Weizhou Wang</i>	
ENERGY EFFICIENT OPTIMIZATION METHOD FOR GREEN DATA CENTER BASED ON CLOUD COMPUTING	1281
<i>Runze Wu, Wenwei Chen, Li Li, Kuangyi Zhao</i>	
A VOD SYSTEM MODEL BASED ON BC GRAPHS	1286
<i>Xiaoqiang Chen, Jianxi Fan, Cheng-Kuan Lin, Baolei Cheng, Zhao Liu</i>	
ANOMALY DETECTION APPROACH BASED ON FUNCTION CODE TRAFFIC BY USING CUSUM ALGORITHM	1293
<i>Ming Wan, Wenli Shang, Peng Zeng</i>	
DOA ESTIMATION WITH NON-CIRCULAR REDUCED DIMENSION PM ALGORITHM FOR LINEAR ARRAY	1299
<i>Wang Zheng, Weihua Lv, Xiaofei Zhang</i>	
2D-DOA ESTIMATION OF NONCIRCULAR SIGNALS FOR UNIFORM RECTANGULAR ARRAY VIA NONCIRCULAR-ESPRIT	1304
<i>Weihua Lv, Wang Zheng, Xiaofei Zhang, Licen Zhang</i>	
DESIGN AND IMPLEMENTATION OF KEY MANAGEMENT SYSTEM IN IC CARD APPLICATION FOR PUBLIC TRANSPORTATION	1310
<i>Xin Yang, Ye Du, Dawei Zhang</i>	
2D-DOA ESTIMATION FOR CO-PRIME L-SHAPED ARRAYS WITH PROPAGATOR METHOD	1314
<i>Bin Hu, Weihua Lv, Xiaofei Zhang</i>	
REMOTE-SENSING FUSION BY MULTISCALE BLOCK-BASED COMPRESSED SENSING	1320
<i>Senlin Yang, Xin Chong</i>	
ANOVA FOR SPATIAL DATA AFTER FILTERING OUT THE SPATIAL AUTOCORRELATION	1324
<i>Yumin Chen, Yan Lu, Jiang Zhou, Mo Cheng</i>	
IMAGE FUSION ALGORITHM BASED ON DENG CORRELATION AND IMAGE SALIENCY IN CURVELET FRAMEWORK	1329
<i>Yuanli Liu, Yi Yang, Jian Sun</i>	
THRESHOLD SELECTION ALGORITHM OF JOINT METRIC FOR TOA ESTIMATION IN 60GHZ SENSOR NETWORKS	1334
<i>Ning Du, Hao Zhang, Tingting Lv, Qingfang Zeng</i>	
MODEL CHECKING OF SOFTWARE DEVELOPMENT IN DISTRIBUTED ANIMATION RENDERING SYSTEM	1338
<i>Zhiguo Hong, Yongbin Wang, Minyong Shi</i>	
LANDSLIDE SUSCEPTIBILITY EVALUATION BASED ON GIS AND INFORMATION VALUE MODEL	1343
<i>Yumin Chen, Qianqian Ba, Qianjiao Wu, Xiangfei Li</i>	
GLOBAL EXISTENCE AND BLOW-UP TO A CLASS OF DEGENERATE PARABOLIC EQUATION WITH TIME DEPENDENT COEFFICIENTS	1349
<i>Anyin Xia, Xianxiang Pu, Shan Li</i>	
NETWORK EQUIPMENT FAULT PREDICTION BASED ON CUSUM ALGORITHM	1353
<i>Peishun Liu, Lifang Lin, Changjian Zhao, Peiwei Jia</i>	
A SPECIAL RESOURCE CONSTRAINED PROJECT SCHEDULING PROBLEM: MODEL UPDATE AND ANT COLONY OPTIMIZATION SOLVING	1358
<i>Mingwei Li, Kun Jiang, Sheng Han, Xingye Dong</i>	
DISTRIBUTED CLUSTER MULTIDIMENSIONAL TRANSCODING FOR STEREOSCOPIC VIDEO STREAM	1364
<i>Fengfeng Duan</i>	

A NOVEL ROUTING ALGORITHM FOR CONTENT-BASED PUBLISH/SUBSCRIBE SYSTEMS	1370
<i>Shaohui Guo</i>	
RAO-BLACKWELLIZED FREE CLUSTERING PARTICLE PHD FILTER FOR MULTI-TARGET TRACKING	1374
<i>Ping Ye, Hui Chen</i>	
A NEW ALGORITHM OF SYMBOLIC EXPRESSION SIMPLIFICATION BASED ON RIGHT-THREADED BINARY TREE	1382
<i>Dechuan Yang, Zeliang Song, Ri Yu, Xihe Jiang, Hongwei Zhao</i>	
IMAGE RETRIEVAL ALGORITHM BASED ON FEATURE FUSION AND BIDIRECTIONAL IMAGE MATCHING	1386
<i>Kaixuan Ji, Chuan Guo, Shengfu Zou, Yang Gao, Hongwei Zhao</i>	
DESIGN AND IMPLEMENTATION OF ANDROID IT JOB ALLIANCE SYSTEM	1392
<i>Hai Wang, Lan Huang, Wuchao Li, Wei Luo</i>	
3D MODELING ALGORITHM BASED ON VEHICLE-BORNE LASER POINT CLOUDS	1397
<i>Xu-Dong Xu, Rui-Jie Wen, Ze Li</i>	
A STUDY OF CYBER VIDEO TECHNOLOGY APPLICATION BASED ON CLOUD COMPUTING PLATFORM	1402
<i>Yanfang Zhou</i>	
THE RESEARCH ON SPORTS TRAINING AIDS SYSTEM BASED ON DATA WAREHOUSE TECHNOLOGY	1406
<i>Yan Liu, Xiaofang Liu</i>	
FEATURES TAGGING TECHNIQUE IN THE SPORTS VIDEO ANALYSIS	1411
<i>Yongwang Wu</i>	
THE APPLICATION RESEARCH OF 3D SIMULATION MODELING TECHNOLOGY IN THE SPORTS TEACHING	1416
<i>Jun-Wa Yang</i>	
DESIGN AND IMPLEMENTATION OF CREDIT ASSESSMENT SERVICE PLATFORM FOR INTERNATIONAL TRADE	1421
<i>Ting Dai</i>	

SESSION 3: AUTOMATION, CONTROL AND MEASUREMENT

ON DESIGN AND IMPLEMENTATION OF LOCOMOTIVE VIDEO MONITORING SYSTEM	1426
<i>Hai Feng Yuan, Jie Peng</i>	
THE PIG FOOD INTAKE MEASUREMENT SYSTEM BASED ON TINYOS AND WSN	1432
<i>Shuai Wang, Yun Gao, Xuan Li, Minggang Lei, Kun Chen, Tianyang Chen, Shipeng Tian, Yanliang Guo</i>	
RESEARCH REPORT ON FAN BLADES INTELLIGENT CLEANING ROBOT	1438
<i>Hao Zheng, Yicun Gong, Ying Long, Si Li</i>	
RESEARCH ON APPLICATIONS OF FUZZY SELF-ADAPTIVE PID CONTROL IN SYNCHRONOUS CONTROL SYSTEM BASED ON ELECTRO-HYDRAULIC PROPORTIONAL TECHNOLOGY	1443
<i>Jinsong Chen</i>	
STUDY OF POWER NETWORK LINE DAMAGE IDENTIFICATION BASED ON IMAGE FEATURE ANALYSIS	1447
<i>Hongzhao Li, Fumin Yang</i>	
ADOPTIVE LAMPS BASED ON THE PATTERN RECOGNITION	1453
<i>Ya Mou</i>	
THE STUDY ON THE APPLICATION OF SENSOR TECHNOLOGY IN THE DEVELOPMENT OF REMOTE MONITORING SYSTEM	1458
<i>Wei Hou</i>	
DEVELOPING SITUATION AND RESEARCH ADVANCES OF STRUCTURAL DAMAGE DETECTION USING BP NETWORK	1462
<i>Jinsheng Fan, Ying Yuan, Xiuling Cao</i>	
APPLICATION OF RFID TECHNOLOGY IN CLINICAL MONITORING SYSTEM OF HOSPITAL	1466
<i>Yu Helin, Jin Ying</i>	
FACE RECOGNITION BASED ON RADON TRANSFORM	1470
<i>Cao Meixia</i>	
DESIGN OF SELF-SERVICE CAR WASHING MACHINE CONTROL SYSTEM BASED ON ARM	1475
<i>Sun Zhengmin</i>	

AUTOMATIC RECOGNITION OF THE HITS LINE IN SEARCH ENGINE RESULT PAGE	1480
<i>Qian Haibo, Qian Zhongmin</i>	
DESIGN AND OPTIMIZATION OF KNEE VARUS VIBRATION ORTHOPEDIC REHABILITATION CORRECTION MECHANISM CONTROL SYSTEM	1487
<i>Yan Bai, Wengang Zheng, Jingbo Zhou</i>	
DESIGN OF VEHICLE INTELLIGENT ANTI-COLLISION WARNING SYSTEM	1492
<i>Qiguo Yao, Yuliang Liu</i>	
A VEHICLE SEAT RATTLE NOISE DIAGNOSIS STUDY CASE	1498
<i>Chunqing Yang, Cansong Gu, Lili Su</i>	
ANALYSIS OF OLD AND NEW DRIVER'S REAR-END COLLISION RISK	1505
<i>Xiaowei Lian, Fujun Liu, Xudong Li</i>	
ILLUMINATION CHANGE UNDERNEATH BRIDGE INFLUENCES DRIVER BEHAVIOR	1510
<i>Xudong Li, Xiaowei Lian, Fujun Liu</i>	
ONLINE MEASUREMENT AND CONTROL SYSTEM BASED ON DEVICENET FIELDBUS	1515
<i>Hu Zhou, Jiang Liu, Guangping Qi, Zongyou Xiang</i>	
COMPARISON OF DIFFERENT CONTROL METHODS APPLIED IN AIR CONDITIONING SYSTEMS	1520
<i>Hua Jiao, Jingyun Liu, Chunfa Ge</i>	
WALL-STABILITY ANALYSIS OF A CLIMBING ROBOT	1525
<i>Binliang Hu, Guoliang Chen, Guangcheng Chen</i>	
DEVELOPMENT OF THE ADJUSTING AND INSPECTING EQUIPMENT FOR EDM	1531
<i>Haipeng Huang, Maosheng Li, Guanxin Chi, Zhenlong Wang</i>	
ATTITUDE CONTROL SYSTEM DESIGN OF UAV	1538
<i>Guo Li, Xiaoliang Lv, Yongqing Zeng</i>	
MOBILE SATELLITE ANTENNA AZIMUTH CONTROL SYSTEM	1543
<i>Guo Li, Yang Li</i>	
THE JOINT CONTROL OF THE SPACECRAFT RETURN CAPSULE'S TEMPERATURE AND HUMIDITY	1549
<i>Guo Li, Jianzhong Zhao, Hao Liu</i>	
SEMANTIC-BASED DISTRIBUTED VERSION CONTROL MODEL	1554
<i>Bijian Fan, Yi Zhuang</i>	
DESIGN AND IMPLEMENTATION OF INTELLIGENT INSULATION MONITORING SYSTEM FOR SHIP GRID BASED ON PROFINET	1559
<i>Jinlong Sun, Zhiliang Wu</i>	
UAV PATH PLANNING BASED ON SPLIT METHOD	1564
<i>Zhi-Ming Gu, Wen-Ming Gao, Xu-Sheng Gan</i>	
A REAL-TIME ROAD BOUNDARY DETECTION ALGORITHM BASED ON DRIVERLESS CARS	1569
<i>Xuekui Zhu, Meijuan Gao, Shangnian Li</i>	
STRUCTURE DESIGN AND SIMULATION OF A BIONIC CONTINUOUS HOPPING ROBOT	1575
<i>Jie-Jian Di, Qin-Ran Zhang, Yu-Xia Zhao, Quan-Liang Zhao, Feng-Bin Liu</i>	
THE LIQUID LEVEL MEASUREMENT OF ULTRA LOW TEMPERATURE CYLINDER BASED ON THE RELATIVE CAPACITY METHOD	1580
<i>Dangjuan Li, Tang Liu, Shenjiang Wu, Huan Xu, Bin Wu</i>	
A NOVEL PROTOCOL FUZZ TESTING APPROACH	1586
<i>Haifeng Li, Bo Shuai, Jian Wang, Chaojing Tang</i>	
RESEARCH ON CHARACTER RECOGNITION TECHNOLOGY BASED ON COMPUTER VISION	1592
<i>Guotao Zhao, Jie Ding</i>	
OPTICAL SYSTEM DESIGN OF SOLAR BLIND ULTRAVIOLET IMAGING DETECTOR	1596
<i>Yunfei Zhang, Tian Wu</i>	
TARGET DETECTION AND RECOGNITION METHOD OF FARMING MACHINE BASED ON MACHINE VISION	1604
<i>Jiajun Jiang, Xiangquan Gui</i>	
FACE RECOGNITION METHOD FOR STATIC IMAGE	1609
<i>Chunxu Jiang, Xuejiao Zhang</i>	
RESEARCH ON TECHNOLOGIES AND APPLICATION OF AUTOMATED TESTING ORIENTED OS2 PAS FUNCTION	1613
<i>Bochuan Gu, Yi You, Jinhua Huang, Fei Liu</i>	
A DESIGN OF AIRBAG CONTROLLER TEST EQUIPMENT	1620
<i>Juanjuan Li, Bo Qu</i>	

DISCUSSION OF ANTI-INTERFERENCE DETECTION METHOD BASED ON CW SMALL SIGNAL	1624
<i>Ling Zhang</i>	
THE APPLICATION OF GRAPH THEORY AND UNIFORM DESIGN ALGORITHM IN THE TEST ARRANGEMENT OF UNIVERSITY	1629
<i>Mengqi Zhang, Yuejie Geng, Zhigang Zhang</i>	
MULTI-POSE FACE DETECTION UNDER STRONG LIGHT CONDITION FOR ANDROID DRIVER FATIGUE DETECTION SYSTEM	1633
<i>Guangmin Sun, Qing Zhang, Junjie Zhang</i>	
DRIVER'S EYE DETECTION AND STATE ANALYSIS IN FATIGUE DRIVING	1637
<i>Guangmin Sun, Linan Jia, Kun Zheng</i>	
A TYPE OF DIRECTLY SELF-ADAPTIVE PID CONTROLLER BASED ON NEURAL NETWORK	1643
<i>Chong Han</i>	
DESIGN OF VEHICLE LAMP CONTROL SYSTEM BASED ON LIN BUS	1647
<i>Jian-Yue Wen, Feng Luo</i>	
MODELING AND SIMULATION FOR SAFETY REDUNDANT ARCHITECTURE IN TRAIN CONTROL SYSTEM	1652
<i>Hongjie Liu, Bing Ning, Tao Tang, Yu Mu</i>	
AUTOMATIC FACIAL FEATURE POINTS EXTRACTION AND EXPRESSION RECOGNITION BASED ON VIDEO DATABASE	1656
<i>Duo Feng, Shun Nishide, Fuji Ren</i>	
NLOS IDENTIFICATION BASED ON ENERGY RECEIVER USING IEEE 802.15.3C	1662
<i>Meng Zhang, Hao Zhang, Xiaolin Liang</i>	
THE STUDY RESEARCH ON INDOOR POSITIONING TECHNIQUE	1667
<i>Huan Zuo, Na Zhang, Jian Xu, Juan Juan Shan, Jian Jiao</i>	
PERFORMANCE COMPREHENSIVE ASSESSMENT METHOD FOR INTELLIGENT TRANSPORTATION SYSTEM OF SHANDONG PROVINCE	1673
<i>Changying Chen, Xiuhong Yang, Qi Feng</i>	
STUDY ON NEURAL NETWORKS IN OPTICAL CHARACTER RECOGNITION	1680
<i>Jin-Song Wu</i>	
THE RESEARCH ON INDUSTRIAL INFORMATION MONITORING SYSTEM BASED ON B/S STRUCTURE	1684
<i>Xuexuan Zhu</i>	
Author Index	