

3rd International Conference on Materials Engineering, Manufacturing Technology and Control (ICMEMTC 2016)

Advances in Engineering Research Volume 67

Taiyuan, China
27 – 28 February 2016

Part 1 of 2

Editors:

**Bingxiang Ma
Dalei Zhou**

ISBN: 978-1-5108-2196-5

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© (2016) by Atlantis Press
All rights reserved.
<http://www.atlantis-press.com/php/pub.php?publication=icmemtc-16>

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: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

PART 1

COMPUTER SCIENCE AND ENGINEERING

THE BLOGGERS' PERSONALITY TRAITS CATEGORIZING ALGORITHM BASED ON TEXT FEATURES ANALYSIS	1
<i>Guohua Ou, Jingkai Li, Junjia Guo, Zhaoquan Cai, Mengping Lu</i>	
FARMLAND WSN INCREMENTAL DEPLOYMENT STRATEGY BASED ON SIGNAL ATTENUATION MODEL	7
<i>Dayong Liu, Chunjiang Zhao, Huarui Wu, Feifei Li</i>	
ANTI-ADDICTION SYSTEM DEVELOPMENT BASED ON ANDROID SMARTPHONE	11
<i>Xiafu Pan</i>	
APPLICATION OF GENETIC ALGORITHMS IN GRAPH THEORY AND OPTIMIZATION	16
<i>Qiaoyan Yang, Qinghong Zeng</i>	
STUDY ON OPEN SOURCE SOFTWARE BASED ON CLOUD COMPUTING PLATFORM	22
<i>Long Zhu</i>	
STUDY AND APPLICATION OF BIG DATA MINING BASED ON CLOUD COMPUTING	26
<i>Jie Shao</i>	
RESEARCH ON MOVING TARGET TRACKING AND INFORMATION FILTERING IN COMPLEX BUILDING ENVIRONMENT	31
<i>Xiangyi Bu</i>	
DATA PROCESSING METHOD IN THE APPLICATION OF THE MATHEMATICAL CONTEST IN MODELING	35
<i>Xiaoling Xu</i>	
3D SURFACE RECONSTRUCTION OF SPINAL ULTRASOUND IMAGES BASED ON 2D CONTOUR LINE	40
<i>Wang Jiang, Junhua Zhang</i>	
AN ANALYSIS OF THE METHODS OF SOLVING THE FINITE SEQUENCE OF CONVOLUTION SUM AND CIRCULAR CONVOLUTION	46
<i>Huajun Chen, Lina Yuan</i>	
ENERGY EFFICIENCY ABOUT COLLABORATIVE MIMO TECHNOLOGY	50
<i>Huajun Chen, Lina Yuan</i>	
CONTOUR EXTRACTION BASED ON DEFORMABLE MODEL AND DYNAMIC PROGRAMMING	56
<i>Cheng Zhao</i>	
A HYBRID ANT COLONY OPTIMIZATION ALGORITHM BASED ON MAPREDUCE	60
<i>Ming Cai, Yongan Zuo</i>	
A NEW KALMAN FILTERING METHOD TO RESIST MOTION MODEL ERROR IN DYNAMIC POSITIONING	65
<i>Chengsong Zhou, Jing Peng, Wenxiang Liu, Feixue Wang</i>	
AN IMPROVED SINGLE SIGN-ON MODEL: DESIGN AND IMPLEMENTATION	71
<i>Degang Sun, Hui Deng, Rui Mao</i>	
AN IMPROVED DECODER MOTION ESTIMATION ALGORITHM IN DISTRIBUTED VIDEO CODING	79
<i>Cunying Chen, Hua Zhang</i>	
EVOLVING FUZZY CLASSIFICATION SYSTEM BY A QUANTUM PARTICLE SWARM OPTIMIZATION ALGORITHM	84
<i>Yunhui Zhu, Jun Sun</i>	
AIR POLLUTANT SOURCE LOCATION BASED ON ZIGBEE WIRELESS NETWORK AND OPTIMIZED LEAST SQUARE	93
<i>Chengxiang Yin</i>	
SOLAR SHADOW POSITIONING ALGORITHM	100
<i>Wanqiao Wang</i>	
WIRELESS SENSOR NETWORK NODE LOCALIZATION ALGORITHM BASED ON CHICKEN SWARM OPTIMIZATION AND MULTI-POWER MOBILE ANCHOR	105
<i>Peng Chen, Yongyi Mao</i>	

DESIGN OF ANNOTATION SYSTEM OF RUSSIAN SPEECH CORPUS BASED ON CROWDSOURCING	111
<i>Yanzhou Ma</i>	
TELEMETRY DATA TRANSMISSION METHOD BASED ON WIRELESS MULTI-HOP NETWORK.....	116
<i>Zhida Li, Ping Song, Chuangbo Hao</i>	
A DATA PREPROCESSING OPTIMIZATION METHOD BASED ON SLIDING TIME WINDOW IN COMMUNICATION ALARM EVENTS	121
<i>Wengang Chen, Wenwei Chen, Bing Fan, Runze Wu, Yanru Wang, Junli Fan</i>	
OPTIMAL CONTROL ALGORITHM OF SAFE ISLAND DEFENSE MODEL IN DISTRIBUTION NETWORK WITH DISTRIBUTED GENERATION	128
<i>Qinggang Zhao</i>	
A RADAR ECHO SIGNAL DETECTION ALGORITHM IN LOW SIGNAL-TO-NOISE RATIO	133
<i>Xiangju Li</i>	
THE AF PROTOCOL OF COOPERATIVE COMMUNICATION SYSTEM	138
<i>Lina Yuan, Jing Gong, Huajun Chen, Yiwang Huang</i>	
A HIGH-RESOLUTION METHOD FOR ESTIMATING THE AZIMUTH OF INFRASOUND SIGNALS	143
<i>Liang Meng, Xihai Li, Dingxin Chen, Tingting Yang</i>	
CLUSTERING BOUNDARY DETECTING ALGORITHM FOR EACH CLUSTER	147
<i>Kun Wang, Baozhi Qiu, Xiangdong Shen</i>	
VULNERABILITY CHAIN ASSESSMENT FOR MULTIPLE VULNERABILITIES	152
<i>Deqiang Qiu, Sujuan Qin</i>	
A STUDY ON COMPUTERIZED SIMULATION OF DIFFERENCE BETWEEN CPM AND CCPM.....	157
<i>Fan Zhang</i>	
A COLLABORATIVE FILTERING RECOMMENDATION ALGORITHM BASED ON CONDITIONAL ENTROPY TRUST MODEL.....	160
<i>Yitao Wu, Xingming Zhang, Xiaofeng Qi, Erning Xiao, Liang Jin</i>	
DESIGN OF HIGH PERFORMANCE FIREWALL BASED ON MULTI-CORE NETWORK DEVELOPMENT PLATFORM	167
<i>Wei-Wei Zhang, Ming-Gang Dong</i>	
A TASK SCHEDULING ALGORITHM BASED ON QOS.....	171
<i>Junwei Ge, Qingling Wang, Yiqiu Fang</i>	
VIRTUAL NETWORK EMBEDDING BASED ON COMPLEX NETWORK THEORY	175
<i>Junwei Ge, Ruizhi Yuan, Yiqiu Fang</i>	
AN EFFECTIVE SOLUTION OF TCP INCAST PROBLEM.....	179
<i>Junwei Ge, Zhibin Zhao, Yiqiu Fang</i>	
RESEARCH ON RESOURCE SCHEDULING BASED ON IMPROVED MUTATION OPERATOR IN CLOUD COMPUTING	184
<i>Junwei Ge, Fangfang Sun, Yiqiu Fang</i>	
DESIGN AND IMPLEMENTATION OF LOGISTICS PUBLIC INFORMATION PLATFORM	188
<i>Li Li, Jie Li</i>	
A DYNAMIC SEARCHABLE ENCRYPTION CP-ABE SCHEME IN CLOUD STORAGE.....	193
<i>Yi Jiang, Hao Feng</i>	
RESEARCH ON THE INFLUENCING FACTORS OF KNOWLEDGE SHARING IN ONLINE VIRTUAL COMMUNITY.....	197
<i>Deyang Yue, Huan Zhang</i>	
PRIVACY-PRESERVING COMMUNICATION FOR VEHICULAR WITH MULTI RECEIVER CONDITIONALLY ANONYMOUS RING SIGNCRYPTION	203
<i>Qian Wang, Mingxing He, Xiao Zheng</i>	
DIFFUSION MODEL BASED ON CELLULAR AUTOMATA AND ITS APPLICATION	209
<i>Jiaoyan Ai, Sizhi Wu, Zongming Wei, Haiyang Xu, Gang Liu</i>	
RESEARCH AND IMPLEMENTATION OF ITERATIVE MAPREDUCE BASED ON BP ALGORITHM	214
<i>Yu Yang, Longjun Zhang</i>	
DESIGN AND IMPLEMENTATION OF OFFICE AUTOMATION SYSTEM BASED ON WEB SERVICE FRAMEWORK AND DATA MINING TECHNIQUES	218
<i>Huang He</i>	
THE DESIGN OF BLUETOOTH VOICE SOURCE WIRELESS REAL-TIME VOICE ENCRYPTION SYSTEM	223
<i>Hai Hui Huang, Jiu Ran Liu, Yao Deng Wang</i>	

RESEARCH ON INFLUENCE OF TRACKING BY ELECTROMAGNETIC WAVE DELAY TO PASS THROUGH DIFFERENT TRANSMISSION LINE.....	228
<i>Mingxin Kou</i>	
A TEST DATA GENERATION METHOD BASED ON THE SYMBOLIC EXECUTION OF THE DANGEROUS PATH.....	233
<i>Yongdang Meng</i>	
RESEARCH ON THE OPTIMAL SYNCHRONIZATION PARAMETER OF TURBO CODE.....	238
<i>Yonghe Su, Mingxin Kou</i>	
TRACKING TECHNOLOGY ON PHASE OF PN CODE IN SPREAD SPECTRUM COMMUNICATION	243
<i>Shaoshuai Wang, Zebo Zhu, Gang Fu</i>	
RESEARCH ON A MODIFIED CARRIER CAPTURE BASED ON FREQUENCY ANALYSIS	247
<i>Yuming Zhu, Gangzhi Wu, Gang Fu</i>	
A NEW METHOD OF PROCESSING HIGH-RATE ROCKET TELEMTRY DATA	251
<i>Zebo Zhu, Jian Chen</i>	
CONSTRUCTION OF INFORMATION SECURITY EVALUATION INDEX SYSTEM.....	255
<i>Cheng Cheng, Jingpeng Wu, Shuo You, Yanhui Zhou</i>	
RESEARCH ON TEMPERATURE COMPENSATION ALGORITHM IN TORQUE SENSOR OF E-BIKE	263
<i>Xiadong Zhang, Yunfei Li, Juncheng Jia</i>	
PARALLEL COMMUNITY DETECTION ON MASSIVE GRAPHS	267
<i>Bing Tian</i>	
A NOVEL METHOD FOR GAUSSIAN WAVELET APPROXIMATION	272
<i>Hongmin Li, Yangdong Wang, Xiong Zeng</i>	
THE STUDY OF THE REMOVAL REDUNDANT ASSOCIATION RULES BASED ON HYPERGRAPH IN LARGE DATA ENVIRONMENT.....	276
<i>Xin-Liang Li, Li-Yun Liu</i>	
SIMULATION AND ANALYSIS OF THE CHANGE OF SHADOW LENGTH BASED ON MATLAB FOR A PERIOD OF TIME	281
<i>Yanbo Wang</i>	
RESEARCH ON THE DEFICIT IRRIGATION SCHEDULING TO WINTER WHEAT AT CRITICAL PERIOD BASED ON CROP MODELING METHOD	285
<i>Ya-Xu Wang, Hong-Quan Sun, Juan Lv, Zhi-Cheng Su</i>	
THE SIMULATION TRAINING SYSTEM DESIGN PROGRAM EVALUATION OF COMMUNICATION EQUIPMENT	292
<i>Ping Gong, Xingcun Wu</i>	
A TABLEAU DECISION ALGORITHM FOR DESCRIPTION LOGIC CATSBQR	297
<i>Hai Feng Liu</i>	
THE OPTIMAL SEARCH REGION IN THE SEA	301
<i>Xiaolei Zhang</i>	
CALCULATION OF FIRST-LEVEL MAINTENANCE CAPACITY IN EMU DEPOT BASED ON THE EMU CIRCULATION PLAN.....	305
<i>Jia-Nan Tong, Lei Nie, Zhen-Huan He</i>	
STUDY ON THE PRE-WARNING SYSTEM OF PUBLIC OPINION BASED ON PCA AND PSO-SVM.....	310
<i>Xiaohong Hao, Kaicheng Gu, Boyu Meng</i>	
DETECTING DDOS ATTACK BASED ON PSO CLUSTERING ALGORITHM.....	314
<i>Xiaohong Hao, Boyu Meng, Kaicheng Gu</i>	
INFORMATION FLOWING IN SMALL-WORLD NETWORK.....	319
<i>Wang Cui</i>	
PRACTICAL ASSESSMENT ON WATER CRISIS BASED ON PSR AND DCE.....	323
<i>Jiayi Li</i>	
A RESOURCE ALLOCATION PROBLEM BASED ON GA-PSO ALGORITHM.....	327
<i>Zheyu Guo</i>	
APPLICATION OF VRP MODEL IN THE TRANSPORT OF WATER RESOURCES IN HENAN PROVINCE.....	331
<i>Ziqiao Wang</i>	
THREE-DIMENSIONAL MODELING OF KNOWLEDGE SPACE AND APPLICATION IN THE SWEBOK	334
<i>Qian Ying, Liu Neng</i>	

AN IMPROVED ANT COLONY FORAGING BEHAVIOR MODELING IN THE APPLICATION OF ROBOT PATH PLANNING PROBLEM	342
<i>Jian Peng, Zhiwei Bao</i>	
AN EFFECTIVE WAY TO PROCESS LINEAR FREQUENCY MODULATION SIGNAL.....	347
<i>Liangwei Feng, Jun Chen, Hao Wu, Feiyun Guan</i>	
FRBR BASED MULTIMEDIA DIGITAL LIBRARY OF POPULAR MULTIMEDIA NEWS.....	352
<i>Yantao Qiu, Xiaozhu Zou</i>	
COMPUTER NETWORK RELIABILITY OPTIMIZATION DESIGN BASED ON GENETIC ALGORITHM	356
<i>Liping Zhang</i>	
THE APPLICATION OF QOS TECHNOLOGY BASED ON NGN NETWORK.....	360
<i>Jinyi Zhou</i>	
A FAST ACTIVE LOCATION DETECTION SCHEMA FOR ADVERSARY NODES IN WIRELESS NETWORKS.....	364
<i>Siyu Zhan, Ying Wu, Yu Xiang, Guoming Lu</i>	
SIMULATION OF LAND USE DYNAMIC CHANGE USING SELECTED DRIVING FACTORS BASED ON THE METHOD OF FEATURE SELECTION	370
<i>Yao-Xing Wang, Ting-Ting Xu, Xuan Lv, Zhi-Gang Zhang</i>	
STUDY ON 3D-MICRO DISCRETIZATION ALGORITHM OF 3D PRINTING	376
<i>Xuepeng Liu, Dongmei Zhao</i>	
RESEARCH ON REGIONAL WATER RESOURCES DEVELOPMENT THRESHOLD MODEL BASED ON ROUGH SETS AND THE SUPPORT VECTOR MACHINE.....	379
<i>Jianjun Wang</i>	
THE RESCUE STRATEGY OF THE SEARCH FOR A LOSING AIRCRAFT BY PLANES	383
<i>An Wang</i>	
AN IMPROVED OPTIMIZATION ALGORITHM FOR TIMED PETRI NET BASED ON GENETIC ALGORITHM	386
<i>Tingpeng Li, Nantian Wang, Yue Li, Yanling Qian</i>	
ANALYSIS AND SIMULATION ON MEASUREMENT ERROR OF COSTAS LOOP	396
<i>Yue Feng, Guangzhi Wu, Gang Fu</i>	
OPTIMIZATION OF COHERENT INTEGRATION ALGORITHM ON UNIFORMLY ACCELERATED GOAL BASED ON B-DCFT	400
<i>Guiping Zhang, Yunxiang Jia, Gang Fu</i>	
RESEARCH ON THE INTERNAL DEVELOPMENT HUMAN RESOURCE MANAGEMENT SYSTEM.....	404
<i>Xiao Gao, Xiaoxi Wang, Pin Lv, Ningning Huo, Xiao Xu, Fa Wang</i>	
NUMERICAL SIMULATIONS ON AERODYNAMIC CHARACTERISTICS OF A GUIDED ROCKET PROJECTILE.....	408
<i>Jiazhong Peng, Liangyu Zhao, Longyin Jiao</i>	
STUDY ON ROUTE SELECTION SYSTEM OF HEAVY-CARGO HIGHWAY TRANSPORTATION BASED ON ARCGIS ENGINE.....	412
<i>Yanei Zhou, Chuanhua Zeng, Fei Xian</i>	
WEB-BASED REAL-TIME FORENSICS SYSTEM.....	416
<i>Yong Xiong Shi, Tang Hao</i>	
NUMERICAL EVALUATION OF THE IMPACT OF GREEN WALL ON THE OUTDOOR THERMAL ENVIRONMENT	422
<i>Ming Jin, Jiying Liu, Linhua Zhang</i>	
RESEARCH AND DESIGN ON INFORMATION SERVICE SYSTEM FRAMEWORK OF PERFORMING ARTS EQUIPMENT INDUSTRY	429
<i>Wei Jiang, Rongjie Shi, Yujiang Jiang, Shaobo Wang</i>	
THE ROBUSTNESS OF URBAN RAIL TRANSIT NETWORK BASED ON COMPLEX NETWORK THEORY	435
<i>Yiran Gu, Cheng Li</i>	
DESIGN AND REALIZATION OF STORED-VALUE PAYMENT SYSTEM	442
<i>Ning Jiang, Xiao Dong Zhu</i>	
DATA FIELD-BASED SUPPORT VECTOR MACHINE FOR IMAGE CLASSIFICATION	446
<i>Yi Lin</i>	
MULTI-AGENT COALITION IN NETWORK PUBLIC OPINION MONITORING BASED ON CLOUD CULTURAL ALGORITHM.....	451
<i>Sainan Liu</i>	

B/S BASED DESIGN AND IMPLEMENTATION OF THE REGULATION INFORMATION SYSTEM OF VILLAGES AND TOWNS' CONSTRUCTION LANDS' MARKET	455
<i>Yingqiang Zhong, Yueming Hu, Ximing Li, Kai Lv</i>	
AN IMPROVED UNEVEN MULTILAYER CLUSTER ROUTING ALGORITHM FOR HOMOGENEOUS WSNs BASED ON COOPERATIVE RELAYING	459
<i>Siran Wang, Yanxia Wang, Yunjian Tang</i>	
CLUSTERING NODES SELECTION MECHANISM IN ENERGY HETEROGENEOUS FARMLAND WIRELESS SENSOR NETWORKS	466
<i>Dayong Liu, Chunjiang Zhao, Huarui Wu, Feifei Li</i>	
A FREQUENCY ESTIMATION ALGORITHM BASED ON CARRIER DETECTION SCHEME AND MUSIC ALGORITHM FOR DS/BPSK SIGNALS	470
<i>Biwen Wang, Peng Liu, Jiyan Huang, Bo Wu, Guocai Mu</i>	
A SCALING METHOD FOR VIDEO IMAGES BASED ON NONLINEAR CURVE	474
<i>Shexiang Ma, Sibao Wang</i>	
EXTRACTING SEMANTIC-PRESERVED ONTOLOGY FROM RELATIONAL DATABASE	478
<i>Songqing Wang, Zhuang Miao, Yingpeng Du, Yang Li, Jiabao Wang</i>	
COST-BENEFIT MODEL AND BENEFIT DISTRIBUTION MODE OF CRITICAL-PEAK PRICING	482
<i>Bin Yang, Wenjun Ruan, Chu Chen, Yusun Luo, Jiaqi Hu</i>	
THE WHOLE PROCESS OF QUALITY SUPERVISION AND MANAGEMENT TO SCIENTIFIC RESEARCH PROJECT OF ARMORED EQUIPMENT	487
<i>Di Wang, He Cui</i>	
CONTINUOUS MOLECULAR COMMUNICATION IN ONE DIMENSIONAL SITUATION	493
<i>Pengfei Lu, Zhenqiang Wu</i>	
APPLICATION OF IMPROVED FUZZY C-MEANS CLUSTERING ANALYSIS METHOD OF LOAD CHARACTERISTICS STATS	499
<i>Lin Li, Dong Liu, Ying Du, Junli Liu</i>	
A NEW BOOSTING ALGORITHM USED IN INTRUSION DETECTION	504
<i>Zhixin Cai, Xiufen Fu</i>	
ON APPLICATION OF A NEW ANT COLONY ALGORITHM MODEL IN TECHNOLOGY FORESIGHT	509
<i>Zhao Liu, Mei Zhang, Xia Xu</i>	
A NOVEL QUANTUM-INSPIRED APPROXIMATE DYNAMIC PROGRAMMING ALGORITHM FOR UNIT COMMITMENT PROBLEMS	514
<i>Hua Qin</i>	
EVENT HANDLING MECHANISM BASED ON ACTIVE RULE FOR INTERNET OF THINGS	520
<i>Biao Dong, Jinhui Chen</i>	
APPLICATION OF RISK FACTOR ANALYSIS METHOD IN BID QUOTATION	525
<i>Ji-Feng Zuo, Xue-Chang Wang, Xuefei Li</i>	
RELATED DISCUSSION ON AGENT-ORIENTED PROGRAMMING	529
<i>Yan Hou</i>	
CONSTRUCTION OF SUPPLY CHAIN OF FRESH AGRICULTURAL PRODUCTS OF CR VANGUARD SUPERMARKET BASED ON COMPUTER INFORMATION PLATFORM	532
<i>Peng Zhang, Jian Kang</i>	
OPTIMIZATION OF EX-WAREHOUSE AND WAREHOUSING FOR LOGISTICS PARK BASED ON COMPUTER SIMULATION	538
<i>Yan-Mei Yang, Xin-Jun Liu</i>	
DESIGN OF ONE LINE BUS MONITORING SYSTEM MINE STRATUM FREEZING BASED ON DATABASE	545
<i>Xin-Jun Liu, Dong-Ling Wu</i>	
RELIABILITY ALLOCATION METHOD OF PRODUCTION LINE BASED ON FUZZY COMPREHENSIVE EVALUATION	551
<i>Guofa Li, Chao Hou, Guofei Liu, Yuhui Jia, Chang Liu, Jinghua Dong</i>	
THE EFFECTIVE APPLICATION OF CLOUD COMPUTING TECHNOLOGY IN LARGE DATA USER BEHAVIOR ENGINE DESIGN	558
<i>Wenmeng He</i>	
THE INFLUENCE FACTORS RESEARCH OF MUSIC THERAPY AND INFORMATION TECHNOLOGY IN HIGH BLOOD PRESSURE PATIENTS' BAD EMOTIONS AND COGNITION	563
<i>Yan Liu, Yafen Wu, Li-Li Wan</i>	
DATA FUSION FOR FREE-FORM SURFACES IN REVERSE ENGINEERING	568
<i>Peng-Xin Liu, Hai-Li Jia, Zhao Wei</i>	

ROBUST OPTIMIZATION MODEL OF PROJECT SCHEDULING PROBLEM BASED ON GENETIC ALGORITHM	574
<i>Dayong Wang, Xiangyang Li, Bingxiu Fang, Jinling Chou</i>	
RESEARCH ON ALGORITHM BASED ON SECURE COMPUTER NETWORK DEFENSE	581
<i>Jifeng Tian</i>	
THE APPLICATION RESEARCH OF ANT COLONY ALGORITHM IN SEARCH ENGINE	588
<i>Jian Lan Liu, Li Zhu</i>	
SIMULATION OF BIG DATA BALANCED SCHEDULING MODEL IN CLOUD COMPUTING ENVIRONMENT	594
<i>Jinyi Zhou</i>	
THE RESEARCHING OF THE AIRPORT INTELLIGENT INFORMATION NETWORK CONSTRUCTION AND POWER CONTROL WHICH BASED ON 4G TECHNOLOGY	599
<i>Xun Wang, Lei Chen, Yingjie Du, Jiale Cai</i>	
EXTRACTING CLINICAL ENTITIES AND THEIR ASSERTIONS FROM CHINESE ELECTRONIC MEDICAL RECORDS BASED ON MACHINE LEARNING	604
<i>Jianhong Wang, Yousong Peng, Bin Liu, Zhiqiang Wu, Lizong Deng, Taijiao Jiang</i>	
RAIN FALL PREDICT AND COMPARING RESEARCH BASED ON ARCGIS AND BP NEURAL NETWORK.....	610
<i>Zimo Guan, Ziyu Tian, Yushi Xu, Han Dai</i>	
TRAVEL PLAN DESIGN BASED ON GRAPH THEORY AND MULTIPLE LINEAR REGRESSION EQUATION MODEL.....	616
<i>Yifeng Dou, Hailing Xiong</i>	
A NEW METHOD FOR KNOT PLACEMENT OF B-SPLINE CURVE APPROXIMATION AND INTERPOLATION	622
<i>Wei Wang, Fazhong Shi, Gang Zhao, Xiaoxiao Du</i>	
A FRIEND RECOMMENDATION ALGORITHM BASED ON THE USER RELATIONSHIP	628
<i>Qi Shen, Sibao Wang, Ran Wang, Ke Cao</i>	
FEEDBACK-BASED DYNAMICALLY WEIGHTED BOF FOR IMAGE RETRIEVAL	634
<i>Yanyan Gao, Yingqian Jia, Ning Li, Li Li</i>	
A GROUP OF DESIGN PRINCIPLES AND TESTING METHODS FOR IMPROVING SOFTWARE QUALITY.....	641
<i>Yaqi Zhang, Zhiping Jiang, Yan Lin</i>	
STUDY ON EVALUATION METHOD OF MACHINE TRANSLATION QUALITY BASED ON QUESTIONNAIRES AND DATA ANALYSIS	647
<i>Yiqun Sun, Minkang Zhou</i>	
RESEARCH AND IMPLEMENTATION OF MOBILE CONTEXT-AWARE MUSIC PLAYLIST RECOMMENDATION SYSTEM	653
<i>Qi Shen, Ran Wang</i>	
IMAGE REGISTRATION METHOD BASED ON EDGE PHASE CORRELATION ALGORITHM.....	659
<i>Qing Zhou, Cheng Yang, Lingyun Wan, Ying Zhang, Xiaolong Zhou, Xin Wan, Jiayu Xu, Huaiyuan Liu, Hong Hu</i>	
DESIGN AND IMPLEMENTATION OF TOURIST LANDMARKS RECOMMENDING SYSTEM.....	668
<i>Shengfu Zou, Chuan Guo, Kaixuan Ji, Yang Gao, Hongwei Zhao</i>	
A VEHICLE DETECTION ALGORITHM BASED ON THE MULTI-SENSORS FUSION AND MULTI-VISION-FEATURES.....	673
<i>Lu Jin, Xiao Kang, Yue Wu</i>	
RESEARCH AND IMPLEMENTATION ON THE CREDIBILITY OF USER BEHAVIOR BASED ON BEHAVIOR DECLARATION.....	679
<i>Xuejun Yu, Haigeng Lv</i>	
RESEARCH ON SATELLITE COMMUNICATION NETWORK BASED ON PCC ARCHITECTURE.....	684
<i>Xiao Yu, Jinfeng Zhao, Lai Wei, Ruiyu Guo</i>	
DCFF: A CONTAINER FORENSICS FRAMEWORK BASED ON DOCKER.....	690
<i>Jiang Du, Sheng Wu</i>	
IMAGE SPLICING DETECTION METHOD BASED ON PARTICLE SWARM OPTIMIZATION (PSO) ALGORITHM.....	697
<i>Ling Gan, Xiao Liu, Kuangzhong Zou</i>	
RESEARCH ON FAULT-TOLERANT ROUTING MECHANISM OF NOC.....	703
<i>Guowei Hou, Lixin Yu, Ligu Song, Heping Peng, Wei Zhuang</i>	
MEASURING AND MODELING THE BIDIRECTIONAL REFLECTION DISTRIBUTION FUNCTION OF SPACE OBJECT'S SURFACE MATERIAL	710
<i>Peng Li, Zhi Li, Can Xu</i>	

THE MINIMUM DISTANCE DIAGRAM AND DIAMETER OF UNDIRECTED DOUBLE-LOOP NETWORKS.....	716
<i>Ying Li, Yebin Chen, Weipeng Tai, Renwei Wang</i>	
A NOVEL DATA MINING ALGORITHM BASED ON BP NEURAL NETWORK AND ITS APPLICATIONS ON STOCK PRICE PREDICTION.....	722
<i>Shu Zhan, Weihao Li, Xuan Zhuang</i>	
A LOCATING METHOD BASED ON THE ANSELIN ELOCAL SPATIAL AUTOCORRELATION MODEL WHICH RESEARCHES IN THE HEAVY METAL POLLUTION SOURCE.....	728
<i>Jinming Fu, Yuanfan Li</i>	
SECURITY ANALYSIS OF CLOUD COMPUTING IN THE MOBILE INTERNET ENVIRONMENT.....	733
<i>Mingwan Luo</i>	
THE USE OF PERSONA IN RECOMMENDATION SYSTEM AND PRIVACY PROTECTION.....	740
<i>Suduo Li, Kaiying Deng, Jingwei Deng, Yingxing Li</i>	
DESIGN AND IMPLEMENTATION OF THE EVALUATION SYSTEM OF THE THEATRE.....	746
<i>Wei Jiang, Xiru Guan, Yujian Jiang, Shaobo Wang</i>	
ACTIVE CONTOUR MODEL BASED ON NONLOCAL MEANS METHOD FOR COLOR TEXTURE SEGMENTATION.....	753
<i>Jingge Lu, Guodong Wang, Zhenkuan Pan</i>	
IMPROVEMENT OF LIVE MIGRATION MECHANISM FOR VIRTUAL MACHINE BASED ON PRE-COPY.....	759
<i>Yiqiu Fang, Yuyang Chen, Junwei Ge</i>	
APPLICATION OF DYNAMIC DATABASE IN THE DPSA OF EQUIPMENT SYSTEM.....	764
<i>Xin Ren</i>	
NURSING HOME INTEGRATED MANAGEMENT SYSTEM BASED ON ZIGBEE TECHNOLOGY.....	769
<i>Kaiyuan Meng, Xuanyu Zhang, Qingnian Cao</i>	
AN IMPROVED OPTIMIZATION ALGORITHM COMBINED MODEL PARAMETERIZATION AND SEQUENTIAL QUADRATIC PROGRAMMING.....	775
<i>Weiwei Bian, Zhenfang Xin</i>	
PRIVATE CLOUD COMPUTING PLATFORM DESIGN RESEARCH BASED ON NETWORK VIRTUALIZATION TECHNOLOGY.....	781
<i>Shihong Zhang</i>	
RESEARCH OF THE RULE ENGINE BASED ON XML.....	787
<i>Ni Zhao, Lifang Bai</i>	
PREDICTIONS ON SEAPORTS FREIGHT THROUGHPUT BASED ON THE EXTREME LEARNING MACHINE NEURAL NETWORK.....	794
<i>Nan Yao</i>	
RESEARCH ON COLLEGE ENGLISH VIDEO LEARNING SYSTEM BASED ON STREAMING MEDIA TECHNOLOGY.....	798
<i>Dan Liu</i>	
DEVELOPMENT ON CONSTRUCTION PROJECT COST SYSTEM BASED ON SPRING.....	803
<i>Nannan Zhang, Wanqing Yang</i>	
DATABASE DESIGN ON CONSTRUCTION PROJECT COST SYSTEM.....	809
<i>Nannan Zhang, Wenfeng Song</i>	
DESIGN ON JAPANESE MULTIMEDIA LISTENING SYSTEM BASED ON VB.NET.....	815
<i>Hao Zhuo</i>	
RESEARCH ON THE ARCHITECTURE OF URBAN EMERGENCY SYSTEM BASED ON GIS.....	821
<i>Zhe Li, Xiang Teng</i>	
AN INDEPENDENT COMPONENT RECOVERY APPROACH FOR INTRUSION TOLERANCE.....	827
<i>Jianhua Huang, Yang Liu, Yi Jin, Shalin Huang</i>	
DESIGN AND IMPLEMENTATION OF HIGHER VOCATIONAL ENGLISH WRITING AND TRAINING TESTING SYSTEM.....	835
<i>Liang Li</i>	
DESIGN AND APPLICATION OF COMPUTER-AIDED ENGLISH ONLINE EXAMINATION SYSTEM.....	840
<i>Dechang Nong</i>	
STUDY OF KEY TECHNOLOGIES OF INSURANCE CLAIMS BASED ON DATA MINING.....	845
<i>Wei Su</i>	
FINANCIAL INFORMATION FUSION AND SERVICE PLATFORM BASED ON CLOUD COMPUTING.....	850
<i>Wei Su</i>	

CONTROL, AUTOMATION AND MEASUREMENT

FACE JOINT ALIGNMENT USING LOCAL METHOD	855
<i>Gang Zhang, Tang Sikan, Lian Qiang Niu</i>	
ANALYSIS ON THE APPLICATION OF ZIGBEE-BASED WIRELESS SENSOR NETWORK IN INDUSTRIAL MONITORING	859
<i>Xiaodong Zhang, Jing Yang</i>	
IOT-BASED SEAT BELTS INTELLIGENT MONITORING SYSTEM	864
<i>Ye qiang Lu, Hongyan Chen, Bing Zhang</i>	
INFORMATION SECURITY DEFENSE METHOD OF ELECTRIC POWER CONTROL SYSTEM BASED ON DIGITAL WATERMARK	869
<i>Chao Zhou, Yajuan Guo, Wei Huang, Haitao Jiang, Bin Li, Jinming Chen</i>	
DESIGN OF SPEECH RECOGNITION SYSTEM BASED ON LD3320 CHIP	875
<i>Lei Wang</i>	
RESEARCH ON SPEECH RECOGNITION ALGORITHM BASED ON HTK TOOLBOX	879
<i>Lei Wang</i>	
MULTI-DIMENSIONAL NEURAL NETWORK AND ITS APPLICATION IN FAULT DIAGNOSIS OF ANALOG CIRCUITS	882
<i>Dezan Zhao, Jun Xing, Zhisen Wang</i>	
A LOW-COST INTELLIGENT MOBILE INDOOR ENVIRONMENT MONITORING SYSTEM	887
<i>Peng Liu, Mingjie Wang, Wenkai Dong, Shengqian Jiang, Yanli Wang, Quan Zhu, Bing Li, Xin Chen</i>	
REAL-TIME MONITORING SYSTEM OF BUS SEAT BELT BASED ON THE GPRS NETWORK MODULE	892
<i>Ye qiang Lu, Jingjing Guo, Hongyan Chen</i>	
WIRELESS LOCATION TECHNOLOGY OF GAUSS PARTICLE FILTER UNDER NLOS ENVIRONMENT	897
<i>Linkai Yan, Yongyi Mao</i>	
ANALYSIS OF PLANT HEIGHT MEASURING METHOD BASED ON LINE LASER	903
<i>Yangyang Li, Ping Song, Yayu Zhai</i>	
DETECTION AND CONTROL OF ABNORMAL BEHAVIOR IN CONTROLLED NETWORK SYSTEM	909
<i>Wenxin Qiao, Yu Lu, Liyun Chen, Changsheng Wang</i>	
KEY TECHNOLOGY OF GLCC CONTROL SYSTEM DESIGN	913
<i>Bin Zhou, Jinjun Cheng, Xin Liu</i>	
DESIGN AND IMPLEMENTATION OF TORQUE SENSING SYSTEM OF INTELLIGENT E-BIKE	918
<i>Xiaodong Zhang, Yunfei Li, Juncheng Jia</i>	
RESEARCH OF FUZZY PID ELEVATOR CONTROL SYSTEM BASED ON PLC	924
<i>Hongji Jin</i>	
RESEARCH AND APPLICATION OF ELECTRO HYDRAULIC PROPORTIONAL SYNCHRONOUS CONTROL SYSTEM BASED ON PID ALGORITHM	928
<i>Gang Wang</i>	
A FAULT LOCATION METHOD FOR MULTI-TERMINAL TRANSMISSION LINES BASED ON MULTIPLE CURRENT MEASUREMENTS AND PHASE COMPARISON	934
<i>Yuanyuan Zhang, Yongli Zhu, Meng Zhang, Ning Zhang</i>	
THE RESEARCH ON FAULT DIAGNOSIS FOR GAS RECOVERY OF SINGLE COAL BED METHANE WELL BASED ON IMPROVED PARTICLE SWARM OPTIMIZING SUPPORT VECTOR MACHINE	938
<i>Yu Miao, Jianhua Yang, Wei Lu</i>	
THE APPLICATION OF ACTIVITY RECOGNITION ALGORITHM BASED ON THREE-DIMENSIONAL ACCELEROMETER IN VIRTUAL REALITY FIELD	944
<i>Qing Zhu, Kai Yang, Zhiqiang Wang</i>	
EXPLORING ON THE MEASUREMENT METHODS OF SHALE GAS CONTENT	948
<i>Lina Xue, Bin Chen</i>	
MATHEMATICAL PROBLEMS RELATED TO THE LOCATION OF THE MEASUREMENT AND THE DATE OF MEASUREMENT	952
<i>Yang Liu</i>	
DESIGN AND FABRICATION OF A FIXED DEVICE OF SEDENION AND CIRCULAR ULTRASONIC SENSOR	956
<i>Saike Yang</i>	

MOVING PEDESTRIAN DETECTION USING NORMED PROPOSALS AND KEY POINTS MATCHING	960
<i>Wei Chen, Taihong Wang, Yong Cai</i>	

PART 2

AN IMPROVED V-DETECTOR ALGORITHM FOR WIRELESS SENSOR NETWORK INTRUSION DETECTION TECHNOLOGY BASED ON IMMUNE SYSTEM PRINCIPLE	969
<i>Xiaohong Hao, Wanfei Jiang, Yifang Yuan</i>	
HUMAN ABNORMAL BEHAVIORAL DETECTION FOR VIDEO SURVEILLANCE	974
<i>Ying Qian, Wenjing Zhang</i>	
RESEARCH OF LICENSE PLATE RECOGNITION BASED ON HSV SPACE	979
<i>Qian Ying, Jun Gan Sheng</i>	
PROGNOSTICS AND HEALTH MANAGEMENT TECHNOLOGY OF ARMORED GUN CONTROL SUBSYSTEM	985
<i>Jialiang Li</i>	
RESEARCH ON THE EVALUATION MODEL AND METHOD OF SMART CITY IN SMALL AND MEDIUM SIZED CITIES	990
<i>Yaqing Qi</i>	
FAST AND EASY METHOD OF AUTOMATIC CAMERA CALIBRATION	995
<i>Jiang You, Liwei Tang, Shijie Deng</i>	
USING SVPWM DIRECT TORQUE CONTROL FOR PERMANENT MAGNET SYNCHRONOUS MOTOR	1002
<i>Ao Tang, Xiaonan Xin</i>	
A RELEASE DEVICE FOR PARACHUTE AND ROBOT	1006
<i>Xuanyang Shi, Junyao Gao, Jingchao Zhao, Yi Liu, Fangzhou Zhao, Haoxiang Cao, Chuzhao Liu</i>	
RESEARCH ON INSERTION PROCESS OF MEDICAL NEEDLE	1013
<i>Lejun Jiang, Yong Huang, Chengfeng Pan, Jintian Ling, Jiyu Li, Zhipeng Chen, Jilin Fu, Yubiao Wen</i>	
RESEARCH ON ETHERNET COMMUNICATION AND REMOTE CONTROL OF PLC AND PC	1020
<i>Ying Li, Yao Li</i>	
THE MULTI-OBJECT OPTIMIZATION OF A MEDICINE DELIVERY SYSTEM OF EBOLA	1026
<i>Yue Song</i>	
FUZZY CONTROL STRATEGY OF DC TORQUE MOTOR WITH DSP BUILDER	1030
<i>Yan Zhang, Xiaoyu Zhang</i>	
RESEARCH ON ENERGY MANAGEMENT FOUR WHEEL DRIVE ROBOT ASSISTED	1038
<i>Yinbo Du, Pengju Si, Lei Xia, Da-Hong Wang, Xian Meng</i>	
IMPROVEMENTS ON FULL-PROFILE FITTING PENDENT DROP METHOD USED FOR SURFACE TENSION MEASUREMENT	1044
<i>Siwei Li, Jinglong Li</i>	
FAN FAULT DIAGNOSIS BASED ON SYMMETRIZED DOT PATTERN AND IMPROVED BP NEURAL NETWORK	1050
<i>Songling Wang, Haixiao Liu, Xiaogang Xu</i>	
DESIGN OF GYRO STABILIZED LOOP BASED ON PID CONTROL	1054
<i>Jianping Ye, Dongxu Zhu, Huizhi Zou</i>	
DESIGN ON LADRC OF SHIPBOARD ANTENNA SERVO SYSTEM	1058
<i>Jianping Ye, Dongxu Zhu, Huizhi Zou</i>	
KINEMATIC MODELING AND VERIFICATION FOR A SCARA ROBOT	1062
<i>Chenhuan Feng, Guanbin Gao, Yongli Cao</i>	
AN OPTIMIZED FLIGHT CONTROL SYSTEM OF QUAD-ROTOR AIRCRAFT	1066
<i>Xiaoning Chen, Hongting Dong, Dexiang Zhang, Jing Xia</i>	
STUDY OF VARIABLE STRUCTURE CONTROL FOR ROBOT BASED ON FILTER	1070
<i>Caihong Zhu</i>	
AUTOMATIC FUNCTIONAL TESTING OF UNITY 3D GAME ON ANDROID PLATFORM	1074
<i>Huixian Hu, Lu Lu</i>	
RESEARCH ON STAGE VISUAL-EFFECT EQUIPMENT CONTROL SYSTEM BASED ON ANDROID	1079
<i>Yujian Jiang, Ben Cheng, Wei Jiang, Shaobo Wang</i>	
MAXIMUM LIKELIHOOD ESTIMATION AND CENTROIDING HYBRID RSSI-BASED INDOOR POSITIONING	1085
<i>Shan Liu, Shengliang Peng, Zhi Wang</i>	

STUDY FOR MARITIME PRACTICE CONTROL SYSTEM FOR CHINA COAST GUARD	1091
<i>Yufeng Yang, Mingkui Feng</i>	
CUBIC POLYNOMIAL SMOOTH SUPPORT VECTOR MACHINE USED IN INTRUSION DETECTION	1096
<i>Zhixin Cai</i>	
TARGET TRACKING WITH RANDOM TIME-DELAY MEASUREMENTS	1100
<i>Jue Huang, Bing Yan, Dong Li</i>	
INTELLIGENT VISUALIZATION SYSTEM ANALYSIS OF TUNNEL MONITORING	1106
<i>Bin Li</i>	
PARAMETER TUNING FOR QUAD-ROTOR PID CONTROL SYSTEM BASED ON OPTIMAL LATIN HYPERCUBE AND PSO ALGORITHM	1112
<i>Muhao Chen, Chen Gong, Xiaolong Bai, Peilu Si</i>	
NETWORK WATERMARKING LOCATION METHOD BASED ON DISCRETE COSINE TRANSFORM	1118
<i>Xueyan Hou, Yonghong Chen, Hui Tian, Tian Wang, Yiqiao Cai</i>	
A PASSIVE CONTROL METHOD FOR SINGLE JOINT EXOSKELETON BASED ON HILL MODEL	1124
<i>Han Wu, Qing Wei, Jian Wang</i>	
RESEARCH AND DEVELOPMENT OF AUTOMATIC GEAR SHIFTING SYSTEM FOR AUTOMOBILE MANUAL TRANSMISSION	1131
<i>Tianyou Cheng, Kuankuan Liang, Xiong Yang, Yunpeng Gong</i>	
AUTO-EXTRACTION OF SPACE DEBRIS FEATURES BASED ON AUTOFOCUS SEARCH AND INVERSE RADON TRANSFORM	1138
<i>Huawei Cao, Meiguo Gao</i>	
FACIAL EXPRESSION RECOGNITION BASED ON TWO-STEP FEATURE HISTOGRAM OPTIMIZATION	1144
<i>Ling Gan, Sisi Si</i>	
INDOOR POSITIONING TECHNOLOGY BASED ON MULTIPATH EFFECT ANALYSIS	1150
<i>Bing Xu, Feng Hong, Xingyuan Chen, Jin Zhang, Shikai Shen</i>	
STUDY ON ENVIRONMENTAL MONITORING SYSTEM BASED ON INTERNET OF ANIMAL HUSBANDRY THINGS	1155
<i>Hengqin Zhao, Jianzhai Wu, Jianhua Zhang, Jiajia Liu, Pu Zhao, Shuqing Han</i>	
CLASSIFICATION AND IDENTIFICATION OF VOLTAGE SAG SOURCES IN DISTRIBUTION NETWORK WITH HARMONIC	1161
<i>Yajuan Liu, Wu Zhu</i>	
NOVEL DETECTION SERVICE METHOD FOR MOVING OBJECT IN IOT	1169
<i>Jie Chen, Degan Zhang</i>	
DESIGN AND IMPLEMENTATION ON CREDIT CARD RISK CONTROL SYSTEM	1176
<i>Jianmei Ma</i>	
BIONIC SURVEILLANCE SYSTEM WITH A LARGE FIELD VIEW	1183
<i>Huabo Sun, Jingru Han, Chun Wang, Yan Ma</i>	
STUDIES OF AR DRONE ON GESTURE CONTROL	1189
<i>Lu Ma, Lee Lung Cheng</i>	
A NEW FRACTIONAL DIFFERENTIAL AND SOBEL OPERATOR BASED EDGE DETECTION METHOD	1194
<i>Heng-Tan Qiu, Xue-Liang Ping, Jia-Wei He, Yong-Zhong Du</i>	
DIGITAL DESIGN OF VISUAL RECOGNITION SYSTEM FOR ENTERPRISE	1198
<i>Lei Wu</i>	

MECHANICAL ENGINEERING AND MANUFACTURING TECHNOLOGY

EFFECT ON SPIRAL BEVEL GEAR TOOTH PROFILE	1203
<i>Hongfang Liu</i>	
ANALYSIS OF MANUFACTURING PROCESS OF SHAFT PARTS BASED ON THERMAL SPRAYING	1207
<i>Guodong Wang, Fengfeng Jin</i>	
SYNCHRONOUS OPTIMIZATION DESIGN OF FIXTURE LAYOUT AND CLAMPING FORCE BASED ON UG	1213
<i>Fengfeng Jin, Guodong Wang</i>	

EFFECTS OF INTAKE TEMPERATURE ON PERFORMANCE AND OPERATION RANGE OF AN HCCI ENGINE FUELED WITH N-BUTANOL	1219
<i>Gang Li, Junjian Wang, Chunhua Zhang</i>	
THE VIRTUAL DESIGN AND SIMULATION OF GYPSUM BLOCK MOLDING MACHINE.....	1224
<i>Yang Gao, Yumin He, Baohui Zhu, Wanying Cheng</i>	
STUDY ON STATIC AND DYNAMIC CHARACTERISTICS OF METAL HELICAL SPRING	1228
<i>Shengwen Deng, Maoru Chi, Chaotao Liu</i>	
THE SURFACE FINE STRUCTURE CONTACT DEFORMATION MECHANICS AND EXPERIMENTAL VERIFICATION	1233
<i>Xingchen Li, Qiang Zhang, Yiyong Huang</i>	
TYPES AND MODELING OF INTERCALATION IN ALLUVIAL FAN RESERVOIR-A CASE STUDY OF GUANTAO FORMATION IN THE DU 84 BLOCK, SHU-1 AREA, WESTERN SAG OF LIAOHE DEPRESSION.....	1238
<i>Yuanchao Zheng, Tailiang Fan, Zhiqian Gao</i>	
THE FRAME STRUCTURE DESIGN OF THREE LIFTING POINT DUMMY ROV	1242
<i>Xingwei Guo, Jie Song, Zhenzhong Liu</i>	
THE DESIGN OF DUMMY ROV ELECTRIC-DRIVE SEVEN FUNCTIONS MANIPULATOR.....	1247
<i>Zaiyu Chen, Meina Guo, Zhenzhong Liu, Lianyu Zhao</i>	
A NEW SECURITY REINFORCEMENT TECHNOLOGY OF MOBILE APPLICATION.....	1254
<i>Chao Zhou, Yajuan Guo, Wei Huang, Jing Guo, Haitao Jiang</i>	
VIBRATION CONTROL RESEARCH FOR FOUR EDGES SIMPLY SUPPORTED RECTANGULAR THIN PLATE.....	1259
<i>Hailin Guo, Shouzhu Hu, Guoxing Zhu, Fei Song, Changli Liu</i>	
RESEARCH ON IDENTIFICATION OF THE CRACK ON ROTOR SHAFT	1264
<i>Shouzhu Hu, Hailin Guo, Fei Song, Guoxing Zhu, Changli Liu</i>	
VIRTUAL REALITY TECHNOLOGY APPLICATION IN MOTION SIMULATION OF ROOFBOLTER.....	1269
<i>Fan Yang, Sicong Yuan, Xiangkui Jiang</i>	
INVESTIGATION ON THE FLOW STRUCTURES IN THE TIP REGION FOR A TRANSONIC AXIAL COMPRESSOR ROTOR.....	1273
<i>Tianye Ji, Xie Fang, Youjun Wang, Tao Yi</i>	
RESEARCH AND ANALYSIS OF RESIDUAL STRESS MEASUREMENT OF RAM CASTING IN GANTRY MACHINE CENTER.....	1280
<i>Rong Wang, Ximeng Sui, Deqiang Wei</i>	
THE SIMULATION AND ANALYSIS OF EFFECT OF VACUUM EUTECTIC WELDING PARAMETERS ON VOID FRACTION OF SOLDER JOINT	1285
<i>Tiansheng Pang, Zhaohua Wu</i>	
ANALYSIS OF THERMAL ENVIRONMENT OF EXISTING RESIDENTIAL BUILDING ENVELOPE ENERGY-SAVING IN ECOTECT SIMULATION	1290
<i>Suxian Zhang, Bo Feng</i>	
STRUCTURAL DESIGN OF NOZZLE BASED ON HYBRID LASER/WATER-JET SCRIBING TECHNOLOGY	1295
<i>Yuhong Long, Tanggao Feng, Jiading Bao, Youqun Tong</i>	
RESEARCH OF THE INFLUENCE OF PROPELLER ROOT ON THE AERODYNAMIC CHARACTERISTICS OF PROPELLER.....	1300
<i>Yuan-Qiang Liu, Song Xiang, Gang Tong</i>	
THE DEVELOPMENT OF URBAN RAIL VEHICLE BOGIE VIRTUAL MAINTENANCE SYSTEM.....	1304
<i>Cang Song</i>	
RESEARCH ON THE MODEL OF CREATIVE FLAT FOLDING TABLE	1308
<i>Yanbo Wang</i>	
THE RESEARCH ON THE 180° UPENDER MOTION AND MECHANICS OF NUCLEAR LARGE PIECES.....	1312
<i>Dengyue Sun, Peng Chen, Shiming Xu, Hailong Li</i>	
CHANGE IN HEART RATE VARIABILITY INDEXES DUE TO HIGH DRIVING WORKLOAD IN TURNING LEFT AT THE INTERSECTION IN REAL ROAD ENVIRONMENT	1318
<i>Weiwei Guo, Xiaoting Tian, Jiyuan Tan, Li Wang</i>	
IMPROVING RECOVERY OF NARROW CHANNEL OILFIELD WITH APPLICATIONS OF BOREHOLE-SEISM INTEGRATION TECHNIQUE	1322
<i>Guanghui Sheng</i>	
FINITE ELEMENT ANALYSIS AND STRUCTURE DESIGN OF SUB-SOILING SHOVEL.....	1326
<i>Long Gao, Shanshan Li, Jiangtao Liu, Degang Kong, Jinggang Yi</i>	

PERFORMANCE DEGRADATION RESEARCH OF COMBINED ROTOR CONSIDERING ROD RELAXATION	1330
<i>Ailun Wang, Zhen Luo</i>	
STRESS ANALYSIS OF DOUBLE ROW ANTI-SLIDE PILE	1337
<i>Hao Tang</i>	
CALCULATION OF HIGH SPEED WATER COLUMN PRESSURE ON THE INNER BARREL IN THE GUN WATER-PROJECTILE TEST BASED ON CFD	1342
<i>Zefeng Zhang, Jianping Fu, Yingxiu Cao</i>	
DESIGN AND IMPLEMENTATION FAST CORRECTION PHASE SYSTEM OF SHIP-BORNE DYNAMIC PLATFORM	1348
<i>Ren-Long Li, Guang-Zhi Wu, Ming-Xin Kou</i>	
THE EFFECT OF DWELL TIME TO CREEP-FATIGUE CRACK GROWTH	1352
<i>Wen Li, Guobin Zhang, Xiaohong Yang, Yan Jiao</i>	
VIBRO-ACOUSTIC RESPONSE OF FGM PLATES CONSIDERING THE THERMAL EFFECTS	1356
<i>Tieliang Yang, Qibai Huang</i>	
STUDY ON THE SIMULATION OF AC PERMANENT MAGNET SYNCHRONOUS MOTOR SERVO SYSTEM	1362
<i>Caihong Zhu, Hongtao Zhang, Yongjian Zhao</i>	
NEW TECHNOLOGY FORESIGHT METHOD: EXTENICS, EXTENSION ENGINEERING METHOD AND TECHNOLOGY ----SECOND CREATION	1366
<i>Zhao Liu, Mei Zhang, Xia Xu</i>	
EFFECTS OF BLOCKAGE OF THE IMPELLER CHANNEL ON PERFORMANCES OF NON-OVERLOAD CENTRIFUGAL PUMP	1370
<i>Wanfang Zhao</i>	
RELIABILITY ANALYSIS OF THE DUAL MASS FLYWHEEL DAMPING FLANGE BASED ON WORKBENCH	1374
<i>Zhengfeng Yan, Kunpeng Zhou, Chunfang Liao</i>	
THE PRESENT SITUATION AND COUNTERMEASURES OF BUILDING ELECTRICAL EQUIPMENT INSTALLATION AND DEBUGGING	1381
<i>Guanghui Liu</i>	
RESEARCH ON MACHINE VISION DETECTION EXPERIMENT PLATFORM FOR INDUSTRY PRODUCTS	1385
<i>Peng Ye, Xingyu Gao</i>	
GREEN DESIGN AND ITS APPLICATION IN PRODUCT DESIGN	1391
<i>Wei Chen</i>	
SINGLE-NEURON CONTROL STRATEGY OF ENGINEERING MECHANICAL ARM HYDRAULIC DRIVE SYSTEM	1397
<i>Zhong Liu, Neng Yang, Zhan-Wei Gao</i>	
STUDY ON RIGID-FLEXIBLE COUPLING DYNAMIC MODEL OF GLOBOID CAM INDEXING MECHANISM WITH SIX DEGREES OF FREEDOM	1403
<i>Zhenghao Ge, Chen Liang, Chengping Li</i>	
DESIGN AND ANALYSIS OF TWO-SHAFT OMNIBEARING SCANNING MECHANISM	1409
<i>Hua Cai, Zhongrui Wang, Haocheng Wang, Wei Zheng, Wangqi Zhao, Yong Hu</i>	
CONSTRUCTION SAFETY PROBLEM ANALYSIS IN BUILDING STRUCTURE DESIGN	1415
<i>Jinhai Zhu</i>	
THREE-DIMENSIONAL FE SIMULATION OF COLD PRECISION FORGING OF HELICAL GEAR WITH THE FLOW RELIEF-HOLE METHOD	1419
<i>Wei Feng, Dejun Qi, Feng Wang, Fei Qin</i>	
"THREE PREVENTIONS" SYSTEM DESIGN BASED ON SINGLE-CHIP MICROCOMPUTER (SCM)CONTROL	1425
<i>Jiaxiong Wen</i>	
STUDY AND APPLICATION OF HARMONIC MOVEMENT OF THE CAM MECHANISM	1431
<i>Zheng-Hao Ge, Kai Zhang, Jiao-Juan Shen, Xiao-Yu Han</i>	
EXPERIMENTAL STUDY ON DRY ELECTROSTATIC COOLING IN TURNING	1440
<i>Hui Wang, Xiulin Ji, Fusheng Ni</i>	
THE DESIGN OF CUTTING FORCE CALCULATION SYSTEM FOR ORTHOGONAL EXPERIMENT	1446
<i>Xuebin Liu, Xibin Wang, Chongning Li</i>	
DESIGN AND IMPLEMENTATION OF TECHNOLOGY SERVICE PLATFORM OF INDUSTRY CLUSTERS IN ENGINEERING MACHINERY BASED ON SOA	1452
<i>Qiufeng Wang, Jie Fu, Haiming Zhao, Xuanhua Xu</i>	

THE DESIGN AND OBSTACLE-OVERCOMING ANALYSIS OF MULTIPHASE CONNECTING-ROD WHEELED ROBOT	1458
<i>Chen-Yang Shen, Yu-Jun Wang, Can Fang, Peng-Fei Yin, Jie Huang</i>	
DESIGN ON WRIST AND GRIPPER OF MANIPULATOR BASED ON KINEMATICS ANALYSIS.....	1463
<i>Huaizhi Zong, Shigui Xiang, Xiang Li, Lida Zhu</i>	
STUDY ON ELECTRICAL PERFORMANCE OF FC AND WB IN IC CERAMIC PACKAGE.....	1469
<i>Dejing Wang, Yuanfu Zhao, Quanbin Yao, Yusheng Cao, Binhao Lian, Hongshuo Zhang</i>	
ROLLING BEARING FAULT DIAGNOSIS BASED ON SR AND BITD	1475
<i>Xianyou Zhong, Jiaming Zhao, Li Zhang, Meibao Peng</i>	
FINITE ELEMENT ANALYSIS ELASTIC DEFORMATION OF ROLL SYSTEM FOR COLD ROLLED COPPER BELT	1479
<i>Weiqin Shao, Xiaobo Liu, Faqiang Feng</i>	

MATERIALS ENGINEERING AND SCIENCES

CHARACTERIZATION OF CLASSIFICATION, FUNCTION AND ENZYMOLYSIS MECHANISM OF CELLULASE	1485
<i>Di Chen, Qianqian Tang, Yuxian You, Yiwen Li, Siqi Zeng, Chaohui Feng, Hejun Wu, Aiping Liu, Cheng Li, Yuntao Liu</i>	
OPTIMUM EXTRACTION OF POLYSACCHARIDES FROM FRUITING BODY OF CATATHELASMA VENTRICOSUM USING RESPONSE SURFACE METHODOLOGY	1490
<i>Siqi Zeng, Yiwen Li, Di Chen, Qianqian Tang, Yuxian You, Aiping Liu, Chaohui Feng, Cheng Li, Yuntao Liu</i>	
PREPARATION OF CARBOXYMETHYLATED POLYSACCHARIDES FROM MYCELIA OF CATATHELASMA VENTRICOSUM AND THEIR ANTIDIABETIC PROPERTIES	1498
<i>Yiwen Li, Yuxian You, Qianqian Tang, Siqi Zeng, Di Chen, Qing Zhang, Aiping Liu, Chaohui Feng, Cheng Li, Yuntao Liu</i>	
RECOVERY OF LITHIUM USING A NOVEL AMIDE-NEUTRAL PHOSPHORUS-BASED EXTRACTION SYSTEM WITH RESPONSE SURFACE METHODOLOGY OPTIMIZATION	1506
<i>Lianmin Ji, Lijuan Li, Dong Shi, Jinfeng Li, Defang Xu, Xuexue Song, Zhiqi Liu, Feng Nie, Zhongmin Zeng, Fugen Song</i>	
IDENTIFICATION OF VIBRIO PARAHAEMOLYTICUS STRAINS BY MEANS OF HPLC FINGERPRINTING	1516
<i>Yiling Tian, Yunzhe Zhang, Hui Shi, Wei Zhang</i>	
DETERMINATION OF DEOXYNIVALENOL IN GRAIN SORGHUM BY CHEMILUMINESCENCE ENZYME IMMUNOASSAY	1522
<i>Zhenzhen Chen, Lixin Zhu, Renrong Liu, Wei Meng, Na Wu, Fanfan Yang, Kaihong Li, Yifan Lang</i>	
DEVELOPMENT OF A CHEMILUMINESCENCE ENZYME IMMUNOASSAY FOR THE DETECTION OF AFLATOXIN M1	1526
<i>Yifan Lang, Zhenzhen Chen, Lixin Zhu, Renrong Liu, Xuemei Qiu, Kaihong Li, Fanfan Yang, Na Hu</i>	
RESEARCH AND APPLICATION OF MULTI HYDRACID MULTILEVEL HIERARCHICAL ACIDIFICATION	1530
<i>Zhixiang Zhu, Wenying Zhang</i>	
THE STUDY OF PT-BASED ANODE CATALYSIS FOR FORMIC ACID FULL CELL	1536
<i>Tangbo Wang, Yanfang Sun, Xiaojing Ji, Jiwen Li</i>	
SYNTHESIS AND AGGREGATION BEHAVIOR OF N-BENZYL-N-HEXYLACRYLAMIDE TERPOLYMER.....	1540
<i>Bin Xu</i>	
FACILE CONSTRUCTION OF NOVEL ORGANIC-INORGANIC HYBRID MICROSPHERES FOR ENZYME IMMOBILIZATION	1544
<i>Jun Ma, Shuo Liu, Yanhui Chen, Jian Li</i>	
EFFECT OF VIBRATION PARAMETERS ON PROPERTIES OF POLYPROPYLENE IN DYNAMIC PLASTICIZING PROCESS	1549
<i>Yan Liu, Chuanbo Li</i>	
THE RESEARCH ON THE CHANGE OF THE DEVELOPMENT INDEX IN HIGH CONCENTRATION POLYMER AFTER POLYMER FLOODING	1554
<i>Liang Du</i>	
THE DIFFERENT PHYSIOLOGICAL RESPONSES OF NATURAL AND STATIONARY LOW TEMPERATURE ON WHITE CLOVER (TRIFOLIUM REPENS L.).....	1558
<i>Qiu-Jie Yan, Jin Cai, Yan Li, Zhi-Bin Liu</i>	
REVIEW OF RECENT RESEARCH IN NANO CELLULOSE PREPARATION AND APPLICATION FROM JUTE FIBERS.....	1566
<i>Ling Duan, Weidong Yu</i>	

DISCUSSION OF DYNAMIC ADJUSTMENT APPROACH FOR SLIGHTLY ALKALINE-SURFACTANT-POLYMER FLOODING	1573
<i>Yajie Duan</i>	
INTERFACIAL ACTIVITY OF NEW HYDROXYL SULPHONATE BETAINE AS SURFACTANT FOR EOR	1578
<i>Chunfeng Liu</i>	
INFLUENCE OF REACTION CONDITIONS ON THE CRYSTAL SIZE AND YIELD IN HYDROTHERMAL SYNTHESIS OF ZSM-5 MOLECULAR SIEVE ZEOLITES	1584
<i>Yufeng Wang, Yi Zheng</i>	
EFFECTS OF APPLYING HUMIC FERTILIZERS ON TEA'S YIELD , NUTRITIONAL QUALITY AND SOIL FERTILITY IN A TEA GARDEN	1590
<i>Dongfeng Huang, Limin Wang, Tao Luo</i>	
STRESS RELAXATION BEHAVIOR AND CREEP RUPTURE PROPERTY OF GH4145 ALLOY	1596
<i>Yanping Zeng, Dazhi Yao, Haojie Du, Wenhe Cai, Zhichun Wang, Shuqing Dong, Weili Li, Weidong Zhao</i>	
RESEARCH ON THE OPTIMAL DESIGN OF SURFACE TREATMENT PROCESS FOR AL-B₄C COMPOSITE BY THE METHOD OF ORTHOGONAL EXPERIMENT	1601
<i>Qingfang Zeng, Qiulin Li, Wei Liu</i>	
AN ANALYSIS BASED ON A SPECIAL HARD LANDING INCIDENT	1606
<i>Chun Wang, Lingyun Miao, Huabo Sun</i>	
FORMAL DESCRIPTION OF PIPES-FILTERS ARCHITECTURE STYLE	1614
<i>Yunsai Zhai, Lichen Zhang</i>	
DIFFERENT SOURCES AND HIGH SEDIMENTATION RATE REGIONS OF CU IN JIAOZHOU BAY	1618
<i>Dongfang Yang, Sixi Zhu, Ming Wang, Xiuqin Yang, Fengyou Wang</i>	
SEDIMENTATION PROCESS AND HIGH SEDIMENTATION RATE POSITION OF CU IN JIAOZHOU BAY	1622
<i>Dongfang Yang, Danfeng Yang, Ming Wang, Sixi Zhu, Fengyou Wang</i>	
THE SPREADING PROCESS OF PB IN JIAOZHOU BAY	1626
<i>Dongfang Yang, Danfeng Yang, Sixi Zhu, Ming Wang, Mingzhong Long</i>	
RESEARCH ON COMPREHENSIVE EVALUATION OF LOW CARBON ECONOMY DEVELOPMENT LEVEL IN HULUDAO CITY BASED ON ENTROPY METHOD	1632
<i>Yanchu Zhu, Hanlin Mu, Ye Duan, Nan Li, Zhaoquan Xue</i>	
A STUDY ON THE CONSTRUCTION OF ECO-CORRIDOR BASED ON NATURE RESERVES	1639
<i>Meirong Tian, Guobao Song, Jixi Gao, Jie Qiu</i>	
STUDY ON THE CARBON EMISSIONS OF CONSTRUCTION	1644
<i>Jianzhao Peng, Xiao Zhang, Kaiman Li</i>	

ELECTRONICS AND ELECTRICAL ENGINEERING

STUDY OF SUBSTATION EQUIPMENT STATE MONITORING SYSTEM AND INTEGRATING PLATFORM	1649
<i>Xiaohui Xu, Ruixiang Fan, Benren Pan, Jianbo Xin, Danna Wang</i>	
SEGREGATION BEHAVIOR OF SUPER PARAMAGNETIC FE₃O₄ NANOPARTICLES IN SOLUTION FLOWING IN GRADIENT MAGNETIC FIELD	1653
<i>Lina Gao, Ping Wu, Bin Wang, Han Ren, Shiping Zhang, Li Wang</i>	
THE PRESENT SITUATION AND THE FUTURE OF AIR PREHEATER IN POWER	1657
<i>Luping Liu, Longsheng Zou</i>	
DECOMPOSITION OF ELECTRICITY CONSUMPTION OF SHANDONG PROVINCE BASED ON LMDI METHOD	1662
<i>Fuqiang Li, Huiru Zhao, Xiaoyu Han, Nana Li, Yuou Hu</i>	
CONSTRUCTION COSTS AND TRANSMISSION EFFICIENCY COMPARISON OF AC AND DC DISTRIBUTION SYSTEM	1669
<i>Xiaodong Yuan, Dan Liu, Qiang Li</i>	
MULTI-CRITERIA COMPREHENSIVE OPTIMIZATION OF CCHP SYSTEM	1675
<i>Xudong Wang, Jiancheng Yu, Ling Jiang, Yan Qi, Yingqiu Wang</i>	
APPLICATION AND RESEARCH OF GIS IN OPTIMIZING POWER GRID DISPATCHMENT	1681
<i>Xia Tian</i>	
THE DESIGN AND OPTIMIZATION OF THE MULTI-ENERGY COUPLING SYSTEM	1684
<i>Maowei Zhu</i>	
THE MULTI-ENERGY COUPLING SYSTEM (MECS) DESIGN SCHEME FOR CAMPUS	1688
<i>Xiaomeng Yu</i>	

STUDY ON BUILDING ELECTRICITY CONSUMPTION DATA COLLECTION METHODS	1693
<i>Ling Cao, Pei Gang Liu, Nian Yan Huang</i>	
A CURRENT-COMPENSATION SYSTEM FOR DC OFFSET IN TRANSMITTING DIGITAL-ANALOGUE CONVERTER	1696
<i>Hai Dong, Zong-Min Wang, Ying Kong</i>	
LOW POWER DESIGN OF SHIFT REGISTERS FOR SILICON MICRO DISPLAY	1701
<i>Xi Zeng, Weidong Geng, Yunqian Zhang, Jia Guo, Jiayu Liu, Jingyi Shi</i>	
A COMSOL MODELING OF THE PRE-BREAKDOWN HEATING PHASE IN THE ELECTRO-THERMAL BREAKDOWN OF CONDUCTIVE WATER	1705
<i>Yibo Wang, Dan Liao, Wen Zhang, Haiyang Sun</i>	
RESEARCH OF LOGICAL DIAGNOSES OF DEVICE TRIPPING BASED ON SCADA STEADY INFORMATION	1709
<i>Lei Shi, Yong Zhai, Chenglong Feng, Zhenyu Ruan</i>	
RESEARCH ON FLASHOVER PROCESS OF UNIFORM AND UN-UNIFORM CONTAMINATED INSULATOR STRING	1717
<i>Yawei Li, Xinghai Zhang, Longchen Liu, Zongxi Zhang, Xiaolei Yang, Huan Bai</i>	
MULTI-SCENARIOS ANALYSIS OF ELECTRIC POWER ALTERNATIVES POTENTIAL BASED ON GREY WAVELET NEURAL NETWORK MODEL	1723
<i>Baoguo Shan, Dexiang Jia, Mo Shi, Shuang Zhou, Yi Sun, Molin Huo</i>	
PROBABILISTIC FORECAST OF ELECTRICITY PRICE BASED ON ADABOOST_RBF METHOD	1731
<i>Junli Wu, Zhen Wu, Jinhua Huang, Houyin Long, Chengjin Ye</i>	
OPTICAL DESIGN OF THE 13 MEGA-PIXELS MOBILE PHONE CAMERA	1738
<i>Pengbo Chen, Xingyu Gao</i>	
THE RESEARCH ON COMMERCIAL OPPORTUNITY EVALUATION MODEL OF SPACE DEBRIS REMOVAL	1744
<i>Junjie Zhou</i>	
THE RESEARCH ON THE TIME-DEPENDENT EVALUATION MODEL OF SPACE DEBRIS REMOVAL	1748
<i>Junjie Zhou</i>	
DYNAMIC DEBRIS TRACKING MODEL ABOUT THE LOST PLANE'S WRECKAGE DEBRIS	1752
<i>Xiaorui Li</i>	
THE PREDICTION OF TEMPORAL-SPATIAL DISTRIBUTION OF SPACE DEBRIS	1756
<i>Xiaorui Li</i>	
THE VALUATION OF THE LOSS CAUSED BY SPACE DEBRIS	1760
<i>An Wang</i>	
THE RESEARCH OF A MODIFIED ESTIMATE SCHEME FOR THE SATELLITE LINK LEVEL	1764
<i>Xiao Wang, Qian He, Yuming Zhu</i>	
RESEARCH OF POWER COMBINING EFFICIENCY BASED ON STANDING PRINCIPLE	1769
<i>Gang Cheng, Xiao Wang, Yuming Zhu</i>	
STUDY OF FAR-END CROSSTALK BETWEEN LTCC MICROSTRIP LINES	1773
<i>Yuming Wu, Zhaohua Wu</i>	
INVESTIGATION OF THE FLOW CHARACTERISTICS OF DROPLETS IN NON-UNIFORM ELECTRIC FIELD	1778
<i>Zhonghua Gao</i>	
MAGNETIC INTERFERENCE ANALYSIS CAUSED BY MAGNETIC SURVEY POD TRACK FLUCTUATION IN HELICOPTERS	1782
<i>Yuhui Sun, Chunsheng Lin, Jianyang Zhao, Guojun Zhai</i>	
THE ESTABLISHMENT AND APPLICATION OF TRACE/CFD MODEL FOR MAANSHAN PWR NUCLEAR POWER PLANT	1787
<i>Yu-Ting Ku, Yung-Shin Tseng, Jung-Hua Yang, Shao-Wen Chen, Jong-Rong Wang, Chunkuan Shih</i>	
RESEARCH ON SMALL HYDROPOWER GENERATION FORECASTING METHOD BASED ON IMPROVED BP NEURAL NETWORK	1793
<i>Miao Li, Chang Hong Deng, Jin Tan, Wei Yang, Li Zheng</i>	
ANALYSIS OF FREQUENCY UNCERTAINTY ON POSITIONING ACCURACY BASED ON WINNER II CHANNEL	1799
<i>Baode Wu, Xin Shi, Jiyan Huang</i>	
RSS BASED LOCATION TECHNIQUE WITH THE UNKNOWN TRANSMIT POWER AND PLE USING DIMENSION REDUCTION	1803
<i>Junhui Zhang, Feihong Cheng, Jiyan Huang</i>	
ANALYSIS OF THE TORQUE CONVERTER FLUID FIELD	1808
<i>Wei Li</i>	

ECHO CANCELLATION OF MULTIPATH CHANNEL IN ULTRASONIC THROUGH-STEEL COMMUNICATION SYSTEM	1812
<i>Tao Liu, Xin Lv, Qiang Guo</i>	
ANALYSIS AND OPTIMIZATION OF SENSING AGILITY IN COGNITIVE RADIO	1818
<i>Bingcai Sun, Shengliang Peng, Renyang Gao, Xi Yang</i>	
DOUBLE CHANNEL METER READING SCHEME WITH MICRO-POWER WIRELESS AND LOW VOLTAGE POWER LINE CARRIER	1823
<i>Shen Li, Tian Hua, Guiping Deng</i>	
RESEARCH ON ANTI-POWER ATTACK TECHNOLOGY BASED ON AES IMPROVED ALGORITHM	1827
<i>Kai Luo, Leibo Liu</i>	
APPLICATIONS OF WIRELESS SENSOR NETWORK IN THE FIELD OF MEDICAL AND HEALTHCARE	1833
<i>Chunmei Wang, Tianyu Cao, Tianlei Gao, Zhaoyang Liu</i>	
DESTRUCTION OF SCATTER-WAVE JAMMING SUPPRESSION FOR SAR DUAL-CHANNEL CANCELLATION WITH MULTI-JAMMERS	1839
<i>Mingxing Fang, Daping Bi, Aiguo Shen, Yang Zhou</i>	
MICRO DIGITAL RELAY PROTECTION DEVICE BASED ON ADVANCE MULTICORE PROCESSOR	1847
<i>Dehui Zeng, Weitao Yang</i>	
REMOVAL OF MOTION NOISE FROM SURFACE-ELECTROMYOGRAPHY SIGNAL USING WAVELET ADAPTIVE FILTER	1854
<i>Fei Wang, Xiao-Yan Qiao</i>	
CHARACTERISTIC ANALYSIS OF GRID-SIDE TRACTION CONVERTER OF CRH EMU	1859
<i>Jinhao Wang, Min Zhang, Huijie Du, Shengwen Li, Yaqi Wang, Tingdong Zhou</i>	
AN ECONOMIC LIGHTING MANAGEMENT SYSTEM OF THE INTERNET OF THINGS FOR SMART HOME APPLICATION	1864
<i>Chaoyang Lee, Chu-Sing Yang</i>	
A NEW METHOD FOR CONTROL-PLANE CONGESTION CONTROL IN CHIP-SCALE OPTICAL NETWORKS	1869
<i>Shi Xu, Renfa Li, Quanyou Feng, Wenhua Dou</i>	
OUTDOOR LOGISTICS TRACKING SOLUTION BASED ON COMPUTER AUGMENTED REALITY AND RFID HYBRID TECHNOLOGY	1882
<i>Jian Kang, Peng Zhang</i>	
THE APPLICATION OF POWER ELECTRONIC TECHNOLOGY IN POWER SYSTEM	1889
<i>Tao Chen</i>	
SHELF SYSTEM LOCALIZATION ALGORITHM RESEARCH BASED ON RFID TECHNOLOGY	1893
<i>Li Zhu, Jian Lan Liu</i>	
RESEARCH ON STORAGE AND PROCESSING OF MONGODB FOR LASER POINT CLOUD UNDER DISTRIBUTION	1899
<i>Xudong Xu, Rui Guo</i>	
A DESIGN OF MULTI-PHASE CLOCKS GENERATOR FOR CDR	1905
<i>Yi Shi, Yuanfu Zhao, Suge Yue, Qiang Bian, Yantu Mo</i>	
COOPERATIVE ANTI-COLLISION ALGORITHM BASED ON RELAY SENSOR IN RFID SYSTEM	1911
<i>Xinxian Li, Xiaoling Sun, Weiqin Li, Daisong Shi</i>	
FIBER OPTIC FLUORESCENCE TEMPERATURE MONITORING SYSTEM FOR ELECTRIC APPARATUS	1916
<i>Lei Zhang, Wengqing Wang, Weihua Zhang, Xin Dai</i>	
ADVANCEMENT AND TREND OF NONDISPERSIVE INFRARED CARBON DIOXIDE SENSOR	1921
<i>Shuqing Han, Jiajia Liu, Mengshuai Zhu, Chen Shen, Jianhua Zhang</i>	
APPLICATION OF TUNABLE SELF-COLLIMATION IN LCD PHOTONIC CRYSTALS	1926
<i>Xiaohui Li, Huiyu Yang</i>	
STUDY ON XLPE CABLE VOLTAGE WITHSTAND TEST AND ITS CIRCUIT MODEL	1933
<i>Yixuan Ding, Deguang Xu, Jihui Li, Wentao Wang, Hongqiang Wang</i>	
Author Index	