

5th International Conference on Machinery, Materials and Computing Technology (ICMMCT 2017)

Advances in Engineering Research Volume 126

Beijing, China
25-26 March 2017

Part 2 of 2

Editors:

**Hongbo Hou
Zhongliang Han**

ISBN: 978-1-5108-3878-9

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© (2017) by Atlantis Press
All rights reserved.
<http://www.atlantis-press.com/php/pub.php?publication=icmmct-17>

Printed by Curran Associates, Inc. (2017)

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

METHOD OF LOCATING END POINTS OF INSULATOR STRINGS BASED ON MINIMUM ENCLOSING RECTANGLE	1
<i>Jiawei Hu</i>	
STUDY ON FRACTURING TECHNOLOGY OF POLYMER FLOODING IN THE SECOND CLASS RESERVOIR	6
<i>Hui Xing</i>	
FAULT ANALYSIS AND MAINTENANCE OF THE HYDRAULIC SYSTEM OF COAL MINING MACHINERY	10
<i>Qingsong Gu</i>	
DESIGN OF LED DOT MATRIX HAND WRITING DISPLAY SCREEN	15
<i>Danping Lu</i>	
THE METHODS OF ENHANCING THE PRODUCTION ON THE WELLS COMPLETED BY LIMITED ENTRY FRACTURING (LEF)	19
<i>Xibo Chen</i>	
SOFT INVERSE SEMIGROUP	23
<i>Bingshen Lan</i>	
INTELLIGENT EXPRESSION THE TRANSCEIVER SYSTEM DESIGN IDEAS BASED ON NFC TECHNOLOGY	27
<i>Wei Wei</i>	
RESEARCH PROGRESS IN DINOFLAGELLATE PREVENTION AND CONTROL THROUGH ALGAE-LYSING BACTERIA	32
<i>Guoliang Wen, Jianyun Xi, Yucheng Cao, Xiaojuan Hu, Yu Xu, Wujie Xu, Haochang Su, Zhuojia Li</i>	
ROBOT LOCALIZATION BASED ON VISUAL ODOMETRY	37
<i>Dan Wu</i>	
RESEARCH ON DESIGN AND IMPLEMENTATION OF INTELLIGENT HOME REMOTELY WEB MANAGEMENT AND CONTROL PLATFORM	45
<i>Meng Yan</i>	
DETERMINATION OF POTASSIUM CONTENT IN POTASSIUM HYDROGEN TEREPHTHALATE USED FOR FIREWORKS AND FIRECRACKERS BASED ON ENERGY DISPERSIVE X-RAY FLUORESCENCE SPECTROMETRY (EDXRF)	49
<i>Jun-Yi Wu</i>	
DETERMINATION OF POTASSIUM CONTENT IN POTASSIUM PERCHLORATE USED FOR FIREWORKS AND FIRECRACKERSBASED ON ENERGY DISPERSIVE X-RAY FLUORESCENCE SPECTROMETRY (EDXRF)	54
<i>Jun-Yi Wu, Huan-Xin Xiao</i>	
DETERMINATION OF POTASSIUM CONTENT IN BLACK POWDERS USED FOR FIREWORKS AND FIRECRACKERSBASED ON ENERGY DISPERSIVE X-RAY FLUORESCENCE SPECTROMETRY (EDXRF)	59
<i>Jun-Yi Wu, Huan-Xin Xiao</i>	
DETERMINATION OF POTASSIUM CONTENT IN POTASSIUM HYDROGEN PHTHALATE USED FOR FIREWORKS AND FIRECRACKERS BASED ON ENERGY DISPERSIVE X-RAY FLUORESCENCE SPECTROMETRY (EDXRF)	64
<i>Jun-Yi Wu</i>	
DETERMINATION OF POTASSIUM CONTENT IN POTASSIUM CHLORATE USED FOR FIREWORKS AND FIRECRACKERS BASED ON ENERGY DISPERSIVE X-RAY FLUORESCENCE SPECTROMETRY (EDXRF)	69
<i>Jun-Yi Wu</i>	
DETERMINATION OF TITANIUM CONTENT IN TITANIUM POWDER USED FOR FIREWORKS AND FIRECRACKERS BASED ON ENERGY DISPERSIVE X-RAY FLUORESCENCE SPECTROMETRY (EDXRF)	74
<i>Jun-Yi Wu</i>	
DETERMINATION OF POTASSIUM CONTENT IN POTASSIUM NITRATE USED FOR FIREWORKS AND FIRECRACKERS BASED ON ENERGY DISPERSIVE X-RAY FLUORESCENCE SPECTROMETRY (EDXRF)	79
<i>Jun-Yi Wu</i>	

DETERMINATION OF CADMIUM CONTENT IN PYROTECHNICS USED FOR FIREWORKS AND FIRECRACKERS BASED ON INDUCTIVELY COUPLED PLASMA OPTICAL EMISSION SPECTROMETRIC APPROACH (ICP-OES)	84
<i>Jun-Yi Wu</i>	
OPEN SOFTWARE EXPERIMENT SYSTEM BASED ON SINGLE CHIP MICROCOMPUTER	90
<i>Xingshan Li, Jian Lu</i>	
THE INFLUENCE OF COMMUNITY OPENING ON ROAD CAPACITY	96
<i>An'En He</i>	
TEACHING AND MANAGEMENT OF POWER ELECTRONICS COURSE BASED ON CURRICULUM GROUP MODEL	100
<i>Shengwei Gao, Longnv Li, Xiaoming Liu, Qiqi Wang</i>	
A TEXT CLASSIFICATION ALGORITHM BASED ON RS	105
<i>Jianlin Li</i>	
THE PROGRAM VERIFICATION OF THE THREE-SEEKING AND SIX-SEEKING METHOD BASED ON THE CONJUGATE DIRECTION	109
<i>Chunming Li, Xiaohua Zhang, Xiaoli Yin</i>	
APPLICATION RESEARCH ON FLIPPED CLASSROOM MODEL FOR EDUCATIONAL TECHNOLOGY MAJOR	115
<i>Wei Xiao, Mei Bie, Yunzheng Zhang</i>	
TEACHING EXPERIENCE AND SYLLABUS ON HIGH PERFORMANCE COMPUTING	120
<i>Hong He, Shengzhong Yuan</i>	
A METHOD FOR EVALUATING NOISE REDUCTION EFFECT OF LOW-NOISE ASPHALT PAVEMENTS BASED ON DAMPING CHARACTERISTICS	125
<i>Xingye Zhou, Bo Su, Xudong Wang</i>	
FINITE ELEMENT ANALYSIS OF FLEXURAL BEHAVIOR OF DIFFERENT FIBER REINFORCED ULTRA-HIGH-STRENGTH CONCRETE BEAM UNDER DIFFERENT ENVIRONMENTS	131
<i>Yu Quan, Changchun Pei</i>	
INVESTIGATION AND DISCUSSION OF EQUIVALENT TRANSFERRING METHOD OF VERTICAL DRAINS	138
<i>Binbin Xu, Dongjun Li</i>	
INFLUENCE OF PERMEABILITY ON AXIAL SYMMETRIC CONSOLIDATION METHOD VIA PLAXIS3D	142
<i>Binbin Xu</i>	
EFFECT OF SOIL MOISTURE ON SPATIAL VARIATION OF SOIL HEAT CAPACITY	146
<i>Huanzhuang Tao, Siwen Zheng, Ying Lin, Lei Gan, Yangjian Peng, Rui Ma, Fangli Cheng</i>	
IMPACT OF APPLICATION OF BIOCHAR AND BIOCHAR-BASED FERTILIZER ON PEANUTS NUTRIENT ABSORPTION AND YIELD	151
<i>Mengyu Gao, Jinfeng Yang, Zhide Du, Jiahui Mu, Yahao Zhang</i>	
EXPERIMENTAL STUDY AND MOTION SIMULATION OF BIOMASS PARTICLES IN SUSPENSION FLUIDIZED UNIT	156
<i>Jun Zhao, Xi Wang, Weidong Zhuang</i>	
INFLUENCE OF DIFFERENT KINDS OF STEEL FIBERS ON FLEXURAL BEHAVIOR OF ULTRA-HIGH PERFORMANCE CONCRETE BEAM BY ANSYS	162
<i>Mingyue Chen, Changchun Pei</i>	
FINITE ELEMENT ANALYSIS OF BENDING PERFORMANCE OF BASALT FIBER REINFORCED CONCRETE BEAM	168
<i>Cong Wang, Changchun Pei</i>	
THE STATIC ANALYSIS OF THE IMPACT OF DAMAGED FRAME COLUMN ON THE OVERALL STRUCTURE BASED ON ABAQUS	174
<i>Zhenfu Chen, Sihang Lai</i>	
FINITE ELEMENT ANALYSIS OF FLEXURAL PERFORMANCE OF DIFFERENT FIBER REINFORCED REACTIVE POWDER CONCRETE BEAMS	180
<i>Yu Quan, Changchun Pei</i>	
BIFUNCTIONAL CATALYST CRACKING GASIFICATION OF VACUUM RESIDUE FOR COPRODUCTION OF LIGHT OLEFINS AND H₂-RICH SYNGAS	188
<i>Ruiyuan Tang, Yuanyu Tian, Yingyun Qiao</i>	
IDENTIFICATION AND CLASSIFICATION OF AROMATIC HYDROCARBONS FROM FAST PYROLYSIS OF COAL FOR THE PURPOSE OF ENVIRONMENT-POLLUTION EVALUATION	192
<i>Bin Tian, Ying-Yun Qiao, Jun-Feng Fan, Peng-Fei Li, Pei-Jie Zong, Yuan Jiang, Wen Feng, Chao Liu, Sheng-Jia Wang, Yuan-Yu Tian</i>	

STUDY ON THE INFLUENCE OF FIBER REINFORCED PLASTICS FLUE ON THE POLLUTANT EMISSION OF COAL-FIRED POWER PLANT	196
<i>Jian Hao, Gaojun Liu, Hailong Liu, Xiangdong Cai, Long Jiang, Qing Li</i>	
STUDY ON THE EJECTIVE DEBRIS OF GRANITE BIAXIAL ROCKBURST TEST	200
<i>Shicheng Tang, Xinjin Liu, Kang Chen</i>	
GRADATION THEORY OF ASPHALT MIXTURE AGGREGATE BASED ON FRACTAL THEORY	206
<i>Ruihua Yang, Qiancheng Zhou</i>	
ANALYSIS OF MATERIALS SELECTION FOR ELECTROMAGNETIC RAILGUNS	215
<i>Chuantong Du</i>	
LES OF THE IGNITION PROCESS OF NON-PREMIXED CH₄ BASED ON DYNAMIC THICKENED FLAME MODEL	219
<i>Yang Jiang, Yubing Lei, Apeng Gao</i>	
TRANSFORMATION OF THE FLUE GAS SIDE FOR FULLY LOADED SCR DENITRATION IN THE COAL-FIRED POWER PLANT	227
<i>Gaojun Liu, Long Jiang, Lei Du, Yue Guo, Qing Li</i>	
EFFECT OF NITROGEN-DOPING ON PHOTOCATALYTIC ACTIVITY OF NANOSIZED TiO₂ CATALYST	231
<i>Huifang Zhang, Kangni Cai, Hanhu Liu, Ling Sun</i>	
EFFECT OF EXTRA LI CONTENT ON THE PROPERTY OF TETRAGONAL Li₇La₃Zr₂O₁₂ SOLID ELECTROLYTE PREPARED BY AUTO-CONSOLIDATION METHOD	237
<i>Pengcheng Zhao, Gaoping Cao, Zhaoqing Jin, Hai Ming, Yuehua Wen, Yan Xu, Yu Xiang, Xiayu Zhu, Songtong Zhang</i>	
THE DESIGN OF THE INTELLIGENT ALARM RING FOOT	243
<i>Jiahui Chen</i>	
THEORETICAL CALCULATIONS OF EXTRINSIC PARAMETERS OF CAMERA	247
<i>Jiangshan Liu</i>	
POWER SYSTEM SHORT-TERM LOAD FORECASTING	250
<i>Jingyao Wang</i>	
THE POSITIONING OF SUN SHADOW	254
<i>Jingyao Wang</i>	
THE OPTIMAL DESIGN OF CREATIVE FLAT FOLDING TABLE	257
<i>Xianhao Teng</i>	
MATH HELPS YOU WASH A BETTER HOT BATH	261
<i>Xianhao Teng</i>	
BOTTLENECKS IDENTIFICATION–AIRPORT SECURITY CHECKPOINT PROCESS OPTIMIZATION BASED ON THE GSPN THEORY	264
<i>Qingxiang Hu</i>	
PREDICTION OF OLYMPIC MEDALS BASED ON GRAY THEORY	268
<i>Qingxiang Hu</i>	
A MODEL TO EVALUATE SMART GROWTH OF A CITY USING AHP AND CRITIC	272
<i>Jing-Yan Li</i>	
THE EFFECT OF SC VEHICLES ON THE CHARACTERISTICS OF SINGLE-LANE TRAFFIC FLOW	276
<i>Qingguo Zhou</i>	
SPACE TARGETS COLLISION PROBABILITY MODEL	280
<i>Qingguo Zhou</i>	
RESEARCH ON HAZE AND PM 2.5 BASED ON AHP	284
<i>Yuxuan Yang</i>	
RESEARCH ON CALCULATION METHOD OF HARMONIC IMPEDANCE	289
<i>Xiaolong Xu</i>	
SCHOOL CHOICES IN FUND DISTRIBUTION	293
<i>Le Wang</i>	
STUDY ON THE CONSTRUCTION OF FANS TO ACHIEVE CITY AIR DUCT	297
<i>Yating Liu, Yanfang Wang</i>	
THE TEMPERATURE DISTRIBUTION OF BATHTUB	301
<i>Yuhe Tian</i>	
THE RECEIVER CIRCUIT OF VISIBLE LIGHT COMMUNICATION	305
<i>Yuhe Tian</i>	
THE DEMAND ANALYSIS OF GREEN FOOD IN E-COMMERCE	309
<i>Saishuo Zheng</i>	

OPTIMIZING THE THROUGHPUT AT AN AIRPORT SECURITY CHECK POINT	313
<i>Yirong Yang</i>	
A STUDY ON HOW TO KEEP THE TEMPERATURE OF WATER IN THE BATHTUB UNCHANGED.....	317
<i>Lei Yu</i>	
THE TEMPERATURE OF THE BATHTUB WATER IN SPACE AND TIME	321
<i>Lei Yu</i>	
RESEARCH ON SEVERAL PROBLEMS RELATED TO IMMIGRANT.....	325
<i>Ruijie Zhang</i>	
APPLICATION OF ERLANG QUEUING MODEL IN PROCESS OF AIRPORT SECURITY CHECK	329
<i>Huayanran Zhou</i>	
OPTIMIZATION RESEARCH ON PROCESS OF AIRPORT SECURITY CHECK.....	332
<i>Huayanran Zhou</i>	
UTOPIAN URBAN SOCIETY	336
<i>Chunke Hu</i>	
A LONG TERM OR A MAJOR MIGRATION	340
<i>Chunke Hu</i>	
RESEARCH ON THE IMPACT OF OPENING ENCLOSED RESIDENTIAL COMMUNITY TO TRAFFIC	344
<i>Zhaoyuan Wang</i>	
AUTOMATIC WATERING POTTED MICROCONTROLLER-BASED SYSTEM	348
<i>Dan Chen</i>	
A MODEL OF POPULATION MIGRATION BASED ON MINIMUM COST AND MAXIMUM FLOW.....	352
<i>Dan Chen</i>	
MUSCLE ELECTROMYOGRAPHY ANALYSIS OF UPPER ARM DURING DRAGON BOAT PADDLING.....	358
<i>Yabin He, Guoqin Jiang, Yuxiang Wu</i>	
THE SMART GROWTH MEASUREMENT AND COMPARISON MODEL BASED ON THE PRINCIPAL COMPONENT ANALYSIS.....	362
<i>Wuyu Zhang</i>	
ELECTROMAGNETIC PROPERTY OF CAPACITOR BASED ON ADS AND CST SIMULATION	366
<i>Tong Yao</i>	
OPTIMIZATION OF COMPONENT CHARACTERISTICS IN EMI FILTER USING CST MWS	371
<i>Tong Yao</i>	
BUILD SUSTAINABLE CITIES	375
<i>Han Guo</i>	
A SHORT CONTEMPORARY SURVEY ON PATHOLOGICAL BRAIN DETECTION	379
<i>Mengmeng Yang, Yongyan Jiang</i>	
STUDY ABOUT THE DESIGN OF MERGE AFTER TOLL	384
<i>Haozhe Yang</i>	
OPTIMIZATION OF THE FINITE ELEMENT MODEL OF CORRUGATED CARDBOARD BASED ON AN ORTHOTROPIC MATERIAL CONSTITUTIVE MODEL	389
<i>Fei Song, Changli Liu, Guoxing Zhu</i>	
THE RESILIENCE METRIC INVESTIGATION OF VIBRATION REDUCTION FOR RECTANGULAR THIN PLATE SYSTEM EXCITED BY MULTI-VIBRATION SOURCES	394
<i>Guoxing Zhu, Changli Liu, Fei Song</i>	
DESIGN OF IPV4/IPV6 TRANSITION STRATEGY BASED ON NDN	398
<i>Meigen Huang, Yongzai Si</i>	
THE RESEARCH OF DATA MIGRATION ALGORITHM AND ITS APPLICATION BASED ON PACKET SETS.....	402
<i>Shanshan Kong, Yongquan Cai, Haiyang Yu</i>	
IMAGE STITCHING METHOD BASED ON GENETIC ALGORITHM	406
<i>Yang Xu, Changbo Sun</i>	
CONTRIBUTION OF THE POST-COLLISIONAL A-TYPE GRANITE TO THE FORMATION OF THE TEBAI GOLD DEPOSIT IN ALXA LEAGUE, INNER MONGOLIA, CHINA	413
<i>Xuan Yang, An Jian Wang, Yi Ke Li</i>	
DESIGN OF TEMPERATURE MONITORING SYSTEM BASED ON MICRO- -CONTROLLER	418
<i>Wenjing Xuan, Aihua Lai</i>	

EXPERIMENTAL STUDY OF TEMPERATURE CONTROL SYSTEM FOR ELECTRIC HEATING FURNACE	422
<i>Shengyi Zhang, Zhihui Xu</i>	
AUTOMATIC TRIMMING ALGORITHM AND PROCESS TESTING OF PRECISE CARBON FILM POTENTIOMETER	426
<i>Yuefeng Li, Huijeng Wang, Guanglin Wang, Li Sun</i>	
INVESTIGATION AND ANALYSIS ON THE ILLUMINATION OF THE UNIVERSITY CLASSROOM	430
<i>Rong Wang, Xiao-Yang He, Shen Liu, Liang-Chang Liu, Bao Liu, Zhi-Sheng Wang, Yi Yang, Ling Yu</i>	
IGNITION AND EXTINCTION MODELING OF HYDROTHERMAL FLAMES	439
<i>Mengmeng Ren, Shuzhong Wang, Chuang Yang</i>	
RECENT ADVANCES IN SYNTHESIS AND APPLICATION OF HIERARCHICAL ZEOLITE	444
<i>Zhuoqi Yang</i>	
THE INFLUENCE OF TENSION SEQUENCE OF PRESTRESSING STEEL BEAM ON PRESTRESS LOSS	449
<i>Wenhui Ke, Xiangguo Huang, Lei Ma, Yonglong Yu, Juntao Kang</i>	
RESEARCH ON SERIALIZATION STORAGE STRATEGY BASED ON SPARK CLUSTER	454
<i>Fangfang Yang, Yuchong Xia</i>	
DISCUSSION ON TWO METHODS OF CLEANING SPACE JUNK	460
<i>Nijie Chao</i>	
ANALYSIS ON THE INCLINATION OF ANCHOR CHAIN AND BARREL IN MOORING SYSTEM	464
<i>Zhihong Jin</i>	
APPLICATION PROSPECT ANALYSIS OF ENERGY-SAVING SUNLIGHT GREENHOUSE WITH UNDERGROUND DRIP IRRIGATION AND HEAT	468
<i>Dejie Zhao</i>	
THE EFFECTS OF COMMUNITY OPENNESS ON THE PASSAGE OF SURROUNDING ROADS	472
<i>Nijie Chao</i>	
MEASURE THE SUCCESS OF SMART GROWTH BASED ON ISM	476
<i>Yue Huan</i>	
NEW DESIGN OF DAMS ON ZAMBEZI RIVER	480
<i>Aijing Liu</i>	
THE STABILITY OF BAG DUST COLLECTION SYSTEM	484
<i>Yumeng Cai</i>	
THE INFLUENCE OF COMMUNITY OPENING ON ROAD TRAFFIC	488
<i>Yumeng Cai</i>	
SOLAR SHADOW POSITIONING BASED ON QUADRATIC FUNCTION FITTING	492
<i>Junyuan Wang</i>	
RESEARCH ON THE INFLUENCE AND COMPENSATION METHOD OF THE GRAVITY DISTURBANCE ON THE TT&C SHIP'S INS	496
<i>Xianglong Kong, Hang Liu, Jian Zhou, Xingcun Wu</i>	
DESIGN AND IMPLEMENTATION OF CURRENT MONITORING SYSTEM USED IN SHIP-BORNE RADAR	501
<i>Min Tao, Xinrong Wang, Linfei Sun</i>	
RESEARCH ON TRACKING OF SPREAD SPECTRUM PN CODE SIGNAL	506
<i>Gang Fu, Ting Yuan, Guoxiang Gu</i>	
DESIGN AND REALIZATION OF THE EMERGENCY UNIT OF VIDEO FREQUENCY SWITCH MATRIX	510
<i>Yue Feng, Wei Yu</i>	
THE RESEARCH AND IMPLEMENTATION OF ERP-BASED MOBILE BUSINESS INTELLIGENCE SYSTEM	514
<i>Zebo Zhu, Baochuan Lin</i>	
RESEARCH ON TRACKING AND DEMODULATION OF FM SIGNAL	519
<i>Yonghe Su, Wei Yu</i>	
STUDY ON THE INFLUENTIAL FACTORS OF CARBON EMISSIONS FROM THERMAL POWER INDUSTRIAL IN CHINA USING PARTIAL LEAST SQUARE REGRESSIVE MODEL	523
<i>Mei Liu, Jing-Yan Li</i>	
STUDY OF LOW-ALTITUDE SLOW AND SMALL TARGET DETECTION ON RADAR	529
<i>Daoming Xu, Hongwei Zhang</i>	
AN IMAGE EDGE DETECTION ALGORITHM BASED ON IMPROVED CANNY	533
<i>Kewen Liu, Kang Xiao, Hongxia Xiong</i>	

DESIGN AND IMPLEMENTATION OF INFRARED TEMPERATURE MEASUREMENT SYSTEM.....	538
<i>Zipeng Guo, Jinxia Chu</i>	
THE DESIGN FOR ULTRASONIC RANGING SYSTEM BASED ON BLUETOOTH TRANSMISSION	542
<i>Zipeng Guo, Jinxia Chu</i>	
RESEARCH AND SIMULATION OF THE DIRECTED DOUBLE-LOOP NETWORKS WITH EXPONENTIAL-STEP.....	546
<i>Tao Tao, Deng-Shan Li</i>	
RESEARCH ON THE INTELLIGENT GENERATION METHOD OF 3D VIRTUAL VEHICLE	551
<i>Na Guo</i>	
CRACK DETECTION METHOD OF VIBRATING SCREEN BEAM BASED ON FRACTURE MECHANICS	556
<i>Dong Li, Mingyue Ren, Guoying Meng</i>	
THE DETECTION OF CODE SMELL ON SOFTWARE DEVELOPMENT: A MAPPING STUDY	560
<i>Xinghua Liu, Cheng Zhang</i>	
A KIND OF MULTI-CHANNEL PRIORITY CONTROL DEVICE FOR GREENHOUSE ROLLER SHUTTER MACHINE	576
<i>He Gong, Bin Liu, Hongyan Ju, Ji Li</i>	
A NOVEL FOUR ROTOR AIRCRAFT ADAPTIVE CONTROL ALGORITHM BASED ON THE OPTIMIZED FUZZY NEURAL NETWORK.....	580
<i>Yizhou Wei, Gangqiang Sun, Shuheng Wang</i>	
IMAGE RETRIEVAL ALGORITHM BASED ON COMPRESSED SENSING AND DICTIONARY LEARNING METHODS	587
<i>Xu Yang, Ruiting Sun, Chenning Yu</i>	
DESIGN OF TEMPERATURE CONTROL SYSTEM FOR ELECTRIC HEATING FURNACE BASED ON C51 MICROCONTROLLER.....	595
<i>Zipeng Guo, Jinxia Chu</i>	
EXPERIMENTAL STUDY FOR INFRARED TEMPERATURE MEASUREMENT SYSTEM.....	599
<i>Zipeng Guo, Jinxia Chu</i>	
RESEARCH OF AERIAL HYDRAZINE FUEL GUARANTEE SAFETY ASSESSMENT BASED ON VAGUE-SPA AND FUZZY PROXIMAL GRADE.....	603
<i>Zongshun Hu, Zhijie Huang</i>	
ANALYSIS OF THE "GET+V-ED" STRUCTURE UNDER THE FORCE-DYNAMIC PATTERN	609
<i>Yang Liu</i>	
EFFECT OF ACTIVE TEA EXTRACT ON SPORTS ABILITY	613
<i>Junbiao Kang</i>	
EFFECTS OF TEA POLYPHENOLS ON ATHLETES.....	617
<i>Junbiao Kang</i>	
THE TESTING METHODS RESEARCH ON ATHLETES NUTRITION AND SUPPLEMENT OF ANAEROBIC ENDURANCE TRACK AND FIELD EVENTS BASED ON WIRELESS SCANNING TECHNOLOGY	620
<i>Caigui Wan</i>	
APPLICATION FEATURES AND PROSPECT ANALYSIS OF ELECTRONIC INFORMATION TECHNOLOGY	625
<i>Chunxia Shi, Chunfang Gao, Linyun Shi</i>	
EFFECTS OF PINE BARK PROCYANIDINS EXTRACT ON BLOOD GLUCOSE, BLOOD LIPID AND ANTIOXIDATION IN DIABETIC MICE.....	630
<i>Fang Wang, Jun Wang, Meiping Ren, Bo Hu</i>	
EXPLORATION OF NEW GENERATION CITY BUS INFORMATIONIZATION SYSTEM BASED ON INTERNET OF THINGS AND CLOUD COMPUTING TECHNOLOGY.....	637
<i>Hua Zhao</i>	
APPLICATION OF EMBEDDED WAVELET IMAGE ENCRYPTION ALGORITHM IN TRACK AND FIELD ROUTE OPTIMIZATION.....	642
<i>Caigui Wan</i>	
A STUDY ON APPLICATION OF CYBER PHYSICAL SYSTEM (CPS) IN LIME PRODUCTION	648
<i>Youli Zhou</i>	
ANALYSIS AND COUNTERMEASURES RESEARCH ON THE COMPUTER NETWORK SECURITY AT THE NEW STAGE.....	658
<i>Qi Wang</i>	

RESEARCH ON PREVENTION AND TREATMENT OF CHRONIC FATIGUE SYNDROME THROUGH AEROBIC EXERCISE	663
<i>Hongbing Zeng, Chengmei Wang</i>	
TRANSMISSION LINE GALLOPING TRAJECTORY	667
<i>Jiangshan Liu</i>	
THE GOVERNMENT PROCUREMENT MANAGEMENT SYSTEM BASED ON .NET REMOTING TECHNOLOGY	670
<i>Chen Liu, Qiao-Chu Han, Dian-Qing Yu</i>	
COMBINING UNIFICATION AND REWRITING IN PROOFS FOR MODAL LOGICS WITH FIRST-ORDER UNDEFINABLE FRAMES	676
<i>Shigeki Hagihara, Masahiko Tomoishi, Masaya Shimakawa, Naoki Yonezaki</i>	
RESEARCH ON MODIFIED FUZZY C-MEANS ALGORITHM IN LUNG NODULES COMPUTER-AIDED DIAGNOSIS (CAD) SYSTEM	684
<i>Qing Li, Hui Liu</i>	
RESEARCH ON NEOLOGISM DETECTION IN ENTITY ATTRIBUTE KNOWLEDGE ACQUISITION	690
<i>Ke Wang, Honglin Wu</i>	
RESEARCH AND APPLICATION OF CERTIFICATE MANAGEMENT SYSTEM WITH FLOATING WINDOW	694
<i>Fengwei Wang, Huan Zhang, Na Liu, Yue Wang</i>	
A KIND OF BALL REBOUND TESTER FOR FLEXIBLE CELLULAR POLYMERIC MATERIALS	698
<i>Nuo Li, Tong Qin, Ming Yang, Yue Wang</i>	
ASSESSMENT OF MARINE RESCUE ABILITIES BASED ON ISM AND AHP AS WELL AS FUZZY EVALUATION	704
<i>Mingzhang Chen, Jingxian Liu, Weihao Ma, Zhaozhang Li, Zehan Zhang</i>	
NEW METHOD FOR DETECTING SURFACE DEFECTS OF THE ROTATIONAL PARTS IN REMANUFACTURING SERVICE	714
<i>Xiang Liu, Xuhui Xia, Lei Wang</i>	
PROCESS MODELING AND SIMULATION OPTIMIZATION OF RECONNAISSANCE SATELLITE INFORMATION APPLICATION CHAIN ARCHITECTURE	725
<i>Kangming Zhang, Haoguang Chen, Hao Zhang, Ying Shao</i>	
MPUDP: MULTIPATH MULTIMEDIA TRANSPORT PROTOCOL OVER OVERLAY NETWORK	731
<i>Shaowei Liu, Weimin Lei, Wei Zhang, Hao Li</i>	
OVERVIEW ON IMPLEMENTATION PLANNING OF ENERGY INTERNET BASED ON ENERGY HUB	738
<i>Jiali Liang, Yanhong Luo, Dongsheng Yang, Xingqiang Guo</i>	
MLFSDEL: AN ACCURATE APPROACH TO DISCOVER GENOME DELETIONS	745
<i>Yao Zhang, Jingyang Gao</i>	
STRUCTURE DESIGN AND OPTIMIZATION OF SELF-STANDING MODULAR TEMPORARY TOWER OF 110KV OVERHEAD TRANSMISSION LINES	750
<i>Xiaoguang Hu, Zifu Zhang, Zhanwei Zhu, Xueli Zhang</i>	
EXPERIMENTAL STUDY ON REMOVAL OF HG0 FROM FLUE GAS BY SPRAYING DESULPHURIZATION WASTEWATER INTO FLUE	755
<i>An'En He</i>	
A NEW CONVOLUTION NETWORK BASED ON LAPLACIAN EIGENMAP	759
<i>Pengxin Kang, Xiaohai He, Lingbo Qing, Qizhi Teng, Jie Su</i>	
AN IMPROVED DIGITAL FILTERING METHOD BASED ON FIRST ORDER INERTIA LINK	766
<i>Qiang Zhou, Lingling Wang, Yong Liu, Junwei Lei</i>	
AN IMPROVED NONLINEAR PID CONTROL METHOD FOR A CLASS OF SERVO	770
<i>Lingling Wang, Qiang Zhou, Aijun Zhou, Junwei Lei</i>	
THE GEOMETRICAL FRAME OPTIMIZE METHOD TO EVALUATE AND RESEARCH THE CIRCUMFERENTIALLY NONIFORM HOLE GROUP POSITION ERROR	774
<i>Rong Zhang</i>	
A SIMPLE SLIDING MODE CONTROL FOR SAUCER-SHAPED AIRCRAFT	780
<i>Lingling Wang, Huali Wu, Lili Yang, Junwei Lei</i>	
A SIMPLE FUZZY BACKSTEPPING CONTROL METHOD FOR SAUCER-SHAPED AIRCRAFT	784
<i>Huali Wu, Lingling Wang, Lili Yang, Junwei Lei</i>	
APPLICATION STUDY OF RESIN MATERIAL IN OPTICAL DRIVE	789
<i>Wei Guo, Jianghua Zhang</i>	

ANALYSIS AND SOLUTION OF TYPICAL FAULTS ON THE VIDEO & TELECONFERENCE SYSTEM.....	793
<i>Wen-Cui Li, Yu Luo, Kai-Li Dong, Zhi-Yuan An, Chun-Ying Wang, Yong Zhang</i>	
EMERGENCY TREATMENT PROCESS AND EVALUATION OF TELECONFERENCE SYSTEM.....	797
<i>Zhi-Yuan An, Wen-Cui Li, Chun-Ying Wang, Yong Zhang, Zhen Luo, Li-Jie Wu</i>	
SAFETY MANAGEMENT OF THE TELECONFERENCE SYSTEM	801
<i>Li-Jie Wu, Wen-Cui Li, Chun-Ying Wang, Zhi-Yuan An, Lei Sheng, Xin-Jian Shu</i>	
DEVELOPMENT OF HENAN POWER VIDEO QUALITY MONITORING AND ANALYSIS SYSTEM.....	805
<i>Zhi-Qiang Cui, Lu-Yuan Li, Yong-Jie Li, Dong-Jiao Xu, Ying Chang, Xin Wang</i>	
GEOMETRIC FLOW AND BANDELET COEFFICIENT COMBINING METHOD IS APPLIED TO IMAGE FUSION	810
<i>Mantian Zhong</i>	
SPOT CHECK OF AUTOMOTIVE SPRAY BOOTH USING.....	814
<i>Guoliang Dong, Fujia Liu, Shuquan Xu</i>	
A STUDY ON THE GRAY VALUE DISTRIBUTION CONTOUR CURVE EXTRACTION BASED ON THE IMAGE OF THE FRACTURE SURFACE OF THE MATERIAL AND ITS FRACTAL DIMENSION.....	818
<i>Ju Tian, Chuansheng Liu, Chengbao Wu, Zhenghua Chen, Jizhao Liang, Luyao Li</i>	
A GENERATION METHOD OF AUTOMATION TEST CASES BASED ON ANDROID.....	825
<i>Ming Zhang, Baolei Cheng, Weizhong Zha, Jiwen Yang</i>	
EARTHQUAKE RESCUE SITE EMERGENCY COMMUNICATION RESEARCH.....	832
<i>Chen Wu, Hao Zhang, Wenjie Song, Jiqiang Wang, Chunshuai Lv, Le Yang</i>	

PART 2

A SIMPLE BACKSTEPPING CONTROL METHOD FOR SAUCER-SHAPED AIRCRAFT	841
<i>Yuliang Chen, Huali Wu, Lili Yang, Junwei Lei</i>	
A SIMPLE FUZZY BACKSTEPPING INTEGRAL COMPOUND CONTROL METHOD FOR SAUCER-SHAPED AIRCRAFT	845
<i>Yuqiang Jin, Yuliang Chen, Junwei Lei</i>	
RESEARCH ON VARIABLE STRUCTURE CONTROL OF SERVO SYSTEM BASED ON NONLINEAR SLIDING MODE.....	850
<i>Huali Wu, Lingling Wang, Lili Yang, Junwei Lei</i>	
AN IMPROVED DIGITAL FILTERING METHOD BASED ON WEIGHTED AVERAGE OF INPUT AND OUTPUT DATA	855
<i>Qiang Zhou, Huali Wu, Yong Liu, Junwei Lei</i>	
DESIGN OF THE CONTROL SYSTEM OF THE WIND BOARD BASED ON MCU	859
<i>Haiqin Feng, Bin Liao</i>	
A RAPID PREDICTION METHOD FOR CHEMICAL CLOUDS DIFFUSION WITH TERRAIN EFFECTS CORRECTION.....	863
<i>Qiang Hu, Chaolu Ma, Xiaoyong Zhang, Huanlu Cao, Wei Sun, Xiaojia Jiang, Feng Liu</i>	
EDTA-ASSISTED PHYTOREMEDIATION OF CADMIUM CONTAMINATED SOIL BY SOLANUM NIGRUM L.	869
<i>Yuqi Li, Xin Pei, Jianyong Li, Yonglin Sun, Ying Liang, Yansong Ao</i>	
THE SYNTHESIS AND CHARACTERIZATION OF A NOVEL GEMINI CATIONIC ASPHALT EMULSIFIER.....	876
<i>Cunfei Ma, Laishun Shi, Xiaomeng Yu, Tianyao Wang</i>	
STUDY ON MECHANICAL PROPERTIES AND DURABILITY OF TUFF STONE POWDER CONCRETE	882
<i>Yao Wang, Xixian Ji, Fangyu Tang, Guoqin Chen, Hengchun Zhang</i>	
ELASTOPLASTIC ANALYSIS OF COUPLING MECHANISM FOR RIVER-CROSSING TUNNEL UNDER SEEPAGE CONDITION	887
<i>Junling Qiu, Jinxing Lai</i>	
NUMERICAL SIMULATION AND EXPERIMENTAL STUDY OF 1MM DIAMETER MICRO GEAR HEAT EXTRUSION.....	891
<i>Wen-Qiong Zhang</i>	
EXPERIMENTAL STUDY ON HARDENING OF HIGH SPEED COLD ROLL-BEATING FORMATION.....	896
<i>Hongyu Xu, Yanyi Huang, Yuhui Liu, Fengkui Cui</i>	

STUDY ON THE ACTIVITY OF NI-CO/ZSM-5 CATALYST FOR DEHYDROAROMATIZATION OF METHANE AT LOW TEMPERATURE	902
<i>Yi-Heng Lu, Tao Yang, Yu-Wei Lu</i>	
THE FORMULATION DESIGN AND EXPERIMENTAL RESEARCH ON DAMPING PERFORMANCE OPTIMIZATION OF POLYMER BLENDS MATERIALS	908
<i>Chao Qian, Zhimin Chen, Yongqing Li</i>	
THE SIMULATION AND EXPERIMENT ON MECHANICAL PROPERTIES OF MATERIALS BASED ON DISPERSED CHARACTERS IN MICRO-LEVEL	913
<i>Yuefeng Li, Haoyang Wang, Guanglin Wang, Li Sun</i>	
PERFORMANCE DIFFERENCES OF TA₂O₅ FILMS UNDER DIFFERENT MAGNETRON SPUTTERING CONDITIONS	920
<i>Mengchao Li, Hai-ning Cui, He Wang, Zhenxing Wang, Yanan Liu</i>	
INNOVATIVE DESIGN OF EXCAVATOR BASED ON RECONFIGURABLE MODULAR STRATEGY	924
<i>Guo-Qing Peng, Fu-Xing Li, Peng Chen, Yong Cheng</i>	
A SET FOR HIGH-LEVEL COMPREHENSIVE INTEGRATED CROSSTALK AND DELAY ESTIMATION MODELS	930
<i>Nurbiya Yadikar, Shun Li, Hornisa Mamat, Mutallip Mamut, Kurban Ubul</i>	
PREPARATION OF BUILDING MATERIALS FROM COKE-CHEMICAL RESIN	936
<i>Smagulova N. T., Kairymbekov Zh. K., Kairymbekov A. K.</i>	
OPEN ELECTRONIC EXPERIMENT SYSTEM BASED ON MCU PROGRAMMER DESIGN	942
<i>Keli Yuan, Xingshan Li, Jian Lu</i>	
THE DEVELOPMENT AND APPLICATION OF ELECTRIC SEALING PLIERS	947
<i>Weijun Li, Qinghao Wang, Yanjun Pang, Bo Liu, Xinhua Zhao, Tianshu Hai, Xiaoshu Zhang, Yi Wang, Jing Jin, Liguang Liang</i>	
RESEARCH ON JUDGING METHODS FOR OIL-PAPER CAPACITIVE BUSHING OIL LACKING	952
<i>Yanjun Pang, Qinghao Wang, Weijun Li, Yi Wang, Chuanbo Liu, Bo Liu, Zhitong Liu, Shihui Zhao, Xiao Liu, Liguang Liang</i>	
THE IMPLEMENTATION OF LOAD FORECASTING PLATFORM BASED ON CLOUD COMPUTING	957
<i>Weijun Li, Yanjun Pang, Qinghao Wang, Bo Liu, Chuang Wang, Zhitong Liu, Guanqiao Hao, Chuanzong Zhao, Xinman Xie, Mei Xu</i>	
THE APPLICATION OF ARTIFICIAL NEURAL NETWORK IN THE TRANSFORMER OIL CHROMATOGRAPHIC TEST	962
<i>Qinghao Wang, Weijun Li, Yanjun Pang, Bo Liu, Yi Wang, Zhitong Liu, Peng Liu, Xiao Liu, Lishuai He, Shuyi Tao</i>	
FAILURE ANALYSIS OF NO.2 MAIN TRANSFORMER IN FUSHUN SISHUI SUBSTATION	969
<i>Tianshu Hai, Xin Liu, Chengcheng Yue, Bo Li, Yan Liu, Jingzhong Li, Jie Sun, Yang Hu, Ying Li, Wenfeng Hao</i>	
COMMON ACCIDENTS AND PRECAUTIONS OF DRY-TYPE AIR-CORE REACTORS	973
<i>Xinman Xie, Jingyi Zhang, Shuyi Tao, Mei Xu, Feng Li, Yanhai Hang, Lei Zhang, Hui Tang, Hui Miao, Ying Li</i>	
DISCUSSION ON THE METHOD OF OVERHEAD INSULATED CONDUCTOR WITH CONNECTING GROUND WIRE	978
<i>Chuang Wang, Guobin Liu, Xiao Liu, Xue Wang, Hui Tang, Jiatian Bai, Wenfeng Hao, Chuanzong Zhao, Xue Bai, Hainan Su</i>	
ANALYSIS ON THE COMMON PROBLEMS OF METERING GATEWAY TABLE	984
<i>Zhitong Liu, Yi Wang, Yanjun Pang, Lei Wang, Lishuai He, Xue Wang, Xin Liu, Hui Miao, Xiaoshu Zhang, Hui Tang</i>	
RESEARCH ON VOLTAGE MECHANISM OF POWER SYSTEM	989
<i>Zhen Meng, Xiangbo Meng, Hao Liang, Yang Bai, Xing Zhao, Hong Zhang, Wei Ma, Yan Liu, Yadong Si, Jianshi Bai</i>	
THE RESEARCH AND DESIGN OF MULTI - FUNCTIONAL FAMILY ASSISTANT BASED ON EMBEDDED SYSTEM	996
<i>Yongqi Han, Pei Xiao, Bei Zhu, Yan Li</i>	
INVESTIGATION ON THE DEVELOPMENT STATUS OF DIAMOND CUTTING TOOLS	1000
<i>G. R. Xie, Y. Y. Bao</i>	
AN ABNORMAL TRAFFIC CLEANING SYSTEM	1004
<i>Yang Li, Yanlian Zhang</i>	
AN ENCRYPTION SYSTEM FOR SENSITIVE DATA	1009
<i>Yang Li, Yanlian Zhang</i>	
STUDY ON APPLICATION OF SDN TECHNOLOGY IN ELECTRIC POWER COMMUNICATION NETWORK	1015
<i>Hongfei Xu, Lingfeng Wen, Xifan Nie, Ningzhe Xing, Yajie Pu</i>	

RESEARCH ON EFFECT OF CULTURE SUBSTRATE USING GREEN WASTE AS MATERIALS ON THE GROWTH OF HERBACEOUS FLOWERS	1020
<i>Shuisheng Lu</i>	
RESEARCH ON APPLICATION OF INDUSTRIAL INTELLIGENT CONTROL.....	1024
<i>Libo Yang</i>	
STUDY ON IMPROVING VEHICLE POWER.....	1029
<i>Zhiqiang Xu</i>	
OPTIMIZATION DESIGN OF MATHEMATICAL MODELING FOR LEAKAGE NOISE REDUCTION OF BIONIC FAN BLADE	1034
<i>Lizong Cao, Yu Zhang, Nannan Zhao, Xiaoxu Chen</i>	
BIONIC MOLDBOARD SURFACE COMBINATION OF MATHEMATICAL MODELING AND OPTIMIZATION DESIGN	1038
<i>Tao Luo, Zhuoshi Li, Na Wang, Lizong Cao</i>	
RESEARCH AND IMPLEMENTATION OF TUNNEL TECHNOLOGY	1042
<i>Yafang Lou</i>	
VERTICAL TRANSFERRING PROCESS, MECHANISM AND MODEL OF PB IN JIAOZHOU BAY	1048
<i>Dongfang Yang, Haixia Li, Longlei Zhang, Jiangmin Li, Nan Nan</i>	
DISCUSSION ON THE APPLICATION OF SENSOR TECHNOLOGY IN MECHANICAL AND ELECTRONIC INDUSTRY	1052
<i>Jinhong Zou, Zhenghao Jian</i>	
AN IMPROVED KNN ALGORITHM BASED ON CONDITIONAL PROBABILITY DISTANCE METRIC.....	1057
<i>Ziyang Liu, Zhanbao Gao, Xulong Li</i>	
A NEW ANOMALY JUDGMENT METHOD OF VITAL SIGNS OF CRITICAL ILL PATIENTS.....	1063
<i>Han Zhang, Jianhong Ma</i>	
DESIGN OF LASER GUIDING TARGET FOR SHIELD	1067
<i>Li Wei, Yujing Guo, Chenguang Zhao</i>	
A NOVEL DESIGN OF ANALOG SIGNAL POWER AMPLIFIER MODULE FOR RELAY PROTECTION TESTER.....	1071
<i>Jianshi Bai, Tong Wu, Fang Shen, Yi Liang, Jing Gao, Zhentao Han</i>	
RESEARCH AND IMPLEMENTATION OF COMPLEX FAILURE REAL-TIME CALCULATION MODULE IN EMT-P-BASED RELAY PROTECTION TESTER.....	1077
<i>Jianshi Bai, Fang Shen, Yi Liang, Jing Gao, Zhentao Han, Yang Bai</i>	
OPTIMIZATION ANALYSIS OF DYNAMIC MODAL CHARACTERISTICS OF LARGE DRAW RATIO ROCKET BODY STRUCTURE	1083
<i>Hao Wang, Longbin Liu, Weihua Zhang</i>	
RESEARCH ON TRUST MODEL IN DISTRIBUTED NETWORK ENVIRONMENT	1089
<i>Yafang Lou, Zhang Yicong</i>	
LOAD AND DEFORMATION CHARACTERISTICS OF FLEXIBLE INFLATABLE WING FILMS CONSIDERING THE DEFORMATION COMPENSATION	1093
<i>Longbin Liu, Yuan Wei, Hao Wang, Yicong Jia, Weihua Zhang</i>	
RESEARCH ON KEY TECHNIQUES OF COMMAND AND DISPATCH IN HYBRID VOICE COMMUNICATION	1099
<i>Linying Geng, Dengwei Chen, Xinhai Guo, Guangchao Zhao, Rui Sun</i>	
RESEARCH ON LICENSE PLATE RECOGNITION BASED ON VIDEO IMAGE PROCESSING	1105
<i>Gang Shen</i>	
RESEARCH AND IMPLEMENTATION OF MULTI-SYSTEM VOICE CONVERGENCE	1111
<i>Linying Geng, Lingle Huo, Hongwei Qin, Weiwei Qi, Ming Guo, Shutao Dong</i>	
RESEARCH ON KEY TECHNOLOGY FOR REAL-TIME VIDEO TRANSMISSION	1118
<i>Linying Geng, Lifu Pan, Yonggui Yu, Dengwei Chen, Zehong Wu</i>	
THE FCM SCHEME FOR AUTHENTICATED ENCRYPTION.....	1123
<i>Xiaomei Lei, Zhongdong Wu, Jiu Yong</i>	
A NOISE REDUCTION ALGORITHM OF HEART SOUND BASED ON WAVELET SHRINKAGE.....	1130
<i>Jinglai Sun, Hui Yu, Chunfa Miao, Bochang Jiang</i>	
AN ATTACK DETECTION METHOD OF INDUSTRY CONTROL SYSTEM BASED ON MULTI-DIMENSION ABNORMALITIES	1137
<i>Zihua Fan, Chaowen Chang, Dongcun Pan</i>	
A COARSE TO FINE GRANULAR TREE BASED ON DENSITY PEAKS	1146
<i>Xukun Li, Jie Yang</i>	

QOS-LS: QOS-BASED LOAD SCHEDULING ALGORITHM IN REAL-TIME DATA WAREHOUSE	1152
<i>Jingang Shi, Song Guo, Fangjun Luan, Limei Sun</i>	
A RESEARCH ON MINISAT USING COARSE-GRAINED PARALLEL TECHNIQUE BASED ON MULTI-CORE AND MULTI-PLATFORM	1158
<i>Junjie Zhu, Jingfei Jiang, Xiaocheng Luo, Yong Dou</i>	
PARALLEL ALGORITHM DESIGN FOR AUDIO FEATURE EXTRACTION	1163
<i>Xiaocheng Luo, Jingfei Jiang, Junjie Zhu, Yong Dou</i>	
DESIGN AND IMPLEMENTATION OF DYNAMIC AND EFFICIENT WEB CRAWLER FOR XSS VULNERABILITY DETECTION	1169
<i>Ao Chai</i>	
CREDIBILITY RANKING METHODS ANALYSIS OF USERS IN SOCIAL NETWORK BASED ON RELATION GRAPH	1177
<i>Xiang Cai, Weihong Han, Yan Zhou, Wenxiang Han, Shudong Li, Xiaobo Wu</i>	
VESSEL MOTION STATISTICAL LEARNING BASED ON STORED AIS DATA AND ITS APPLICATION TO TRAJECTORY PREDICTION	1183
<i>Lu Sun, Wei Zhou</i>	
AN EXTENDED TARGET PARTICLE PROBABILITY HYPOTHESIS DENSITY FILTER BASED ON THE STAR-CONVEX SHAPE ESTIMATION	1190
<i>Zhuo Cao, Xinxi Feng, Lei Pu</i>	
THE IMPLEMENTATION OF REAL-TIME RENDERING FOR ELBOW TRAINING IN AR-BASED REHABILITATION SYSTEM	1197
<i>Qinghao Cao, Qiang Wang, Bingjin Ji, Xiao Li</i>	
FAULT DIAGNOSIS OF COMPLEX ELECTRIC POWER SYSTEM USING THE IMPROVED GREY INCIDENCE DEGREE MODEL	1203
<i>Xin Ren, Yuan Li, Tie-Ying Wu, Sheng Qu, Li Ma</i>	
STUDY ON THE DEVELOPMENT OF CIVIL MILITARY INTEGRATION EQUIPMENT PROCUREMENT	1207
<i>Xin Ren, Tie-Ying Wu, Yuan Li, Sheng Qu, Li Ma</i>	
AN EXPERIMENT ON THE HURST EXPONENT BASED ON FARIMA	1212
<i>Pu Chen, Ni Li, Jie Xue, Ting Zhao, Chen Liu</i>	
THE METHOD FOR RECOGNIZING RECOGNITION HELMET BASED ON COLOR AND SHAPE	1219
<i>Geng Zhang, Lei Lv, Dan Li, Min Zhu</i>	
TOWARDS THE DESIGN OF A SPECIMEN TO INVESTIGATE CHLORIDE-INDUCED CORROSION RATES IN CRACKED CONCRETE MEMBERS	1224
<i>Tianhua Deng, Arya Chanakya</i>	
RESEARCH ON EFFECTS OF SOLVENTS ON PROPYLENE EPOXIDATION WITH THE TS-1 CATALYST	1231
<i>Lina Wang</i>	
RESEARCH ON SYNTHESIS AND PROPERTIES OF POLYANILINE	1236
<i>Le Luo</i>	
RESEARCH PROGRESS OF GRAPHENE COMPOSITES	1242
<i>Yuan Gao, Jingwen Wang, Jianwei Li</i>	
RESEARCH ON HYDRODYNAMIC NOISE OF MULTISTAGE CENTRIFUGALPUMP	1247
<i>Zhanqi Hao, Yuli Qian, Haiyan Zhou</i>	
RESEARCH ON METAL NANOSTRUCTURE BUILDING BASED ON NANOIMPRINT LITHOGRAPHY	1252
<i>Minqi Yin, Hongwen Sun</i>	
RESEARCH ON REGULATION OF RECEPTOR SIGNALLING PATHWAY OF HELA CELLS BY CLOCK MOLECULE DEC1	1257
<i>Weiya Lang, Jing Yu, Hongguang Bao, Yongde Hong, Lan He, Hongming Pan</i>	
RESEARCH ON DIRECT DETECTION OF DARK MATTER BASED ON THE LITTLE HIGGS MODEL	1263
<i>Feng Zhang</i>	
RESEARCH ON BIG DATA AND DATA ACQUISITION	1268
<i>Ning Huang</i>	
EFFECTS OF EGCG ON LEARNING AND MEMORY ABILITIES IN MICE WITH ALZHEIMER'S DISEASE	1273
<i>Weiya Lang, Zhongjin Li, Lihui Sun, Danyang Liu, Haiyan Zhang</i>	

RESEARCH ON REAL - TIME IMAGE PROCESSING PLATFORM BASED ON MULTI - CORE DSP	1279
<i>Xiaoming Liu</i>	
OPTIMIZATION OF PID PARAMETERS BASED ON ANT COLONY GENETIC HYBRID ALGORITHM	1285
<i>Gailian Zhang</i>	
SECURITY PROTECTION STRATEGIES OF COMPUTER COMMUNICATION NETWORK	1293
<i>Jiangyan Sun</i>	
EFFECTS OF THE MAXIMUM STRESS LEVEL ON FLEXURAL FATIGUE BEHAVIOUR OF A CROSS-PLY LAMINATED C/C COMPOSITE	1298
<i>Jing Cheng</i>	
A STUDY ON THE RESEARCH FIELD AND SOCIAL INFLUENCE OF COMPUTER ARTIFICIAL INTELLIGENCE	1310
<i>Xihua Zhang</i>	
THE CHARACTERISTICS AND ITS APPLICATION OF CLOUD ACCOUNTING UNDER THE BACKGROUND OF BIG DATA	1316
<i>Yiwen Lu</i>	
STRATEGIES FOR IMPROVING SAFETY AT HORIZONTAL CURVES	1322
<i>Runfen Liu</i>	
CONSTRUCTION OF COLLEGE PERSONNEL FILES MANAGEMENT INFORMATIZATION UNDER THE BACKGROUND OF BIG DATA	1327
<i>Yan Ma</i>	
RESEARCH ON SPORTS BIOMECHANICS BASED ON TENNIS SERVE TECHNIQUE	1333
<i>Zhiqiang Zhu</i>	
BIOMECHANICAL ANALYSIS OF VOLLEYBALL JUMP BUFFER AND PEDAL SKILLS OF TOP-LEVER LEFT-SIDE-HITTERS FROM UNIVERSITY	1339
<i>Xupeng Wan, Jianzhuang Niu</i>	
RESEARCH ON PURIFICATION EXPERIMENT OF FORMALDEHYDE WASTE GAS AT HIGH CONCENTRATION BY BIOLOGICAL METHOD	1344
<i>Chunli Yin</i>	
RESEARCH ON NETWORK OPTIMIZATION BASED ON SIMULATED ANNEALING GENETIC ALGORITHM	1349
<i>Xinyun Chen</i>	
DESIGN AND IMPLEMENTATION OF THE SYSTEM OF INTELLIGENT TRAFFIC LIGHT	1355
<i>Limin Xu</i>	
MULTI-LAYER OPTIMIZATION FOR GRID-CONNECTED MICRO-GRID POWER PLANNING CONSIDERING METABOLIC CAPACITY	1360
<i>Li-Jun Yang, Ming Wang, Kai-Ting Huang, Zhao Zhang, Li-Ming An</i>	
SMART BUILDING RESEARCH BASED ON BIM	1368
<i>Jinxu Li</i>	
RESEARCH ON DIAGNOSTIC ACCURACY AND RELATED FACTORS OF CT FOR INTRA-THORACIC ANASTOMOTIC LEAK	1374
<i>Caiyun Liu</i>	
DESIGN OF QUALITY INSPECTION SYSTEM FOR RED DATES	1380
<i>Ren Zhang, Pengcheng Zhang, Hongbing Meng</i>	
RESEARCH ON APPLICATIONS OF CURVELETTRESHOLD IN SEISMIC SIGNAL DENOISING	1386
<i>Hui Yang, Hua Zhang</i>	
RESEARCH ON REAL TIME 6DOF ROBOT LOCALIZATION BASED ON VISUAL AND INERTIAL FUSION	1392
<i>Xinfang, Zheng, Yongxiang, Guo</i>	
DIFFERENT DESULFURIZER REMOVAL OF TOTAL SULFUR FROM COAL	1403
<i>Yanmin Zhang, Jianfa Shan</i>	
A NEW EMPLOYMENT FORECAST MODEL AND EMPIRICAL STUDY BASED ON BP NEURAL NETWORK	1410
<i>Rui Huang, Xi Chang, Danni Zhao</i>	
PROGRAMMING FOR VEHICLE DISC PAD STATIC μ TEST BY DYNAMOMETER	1421
<i>Meizhi Huang</i>	
AN ANALYSIS OF COETZEE 'S ANIMAL IMAGERY AND ECOLOGICAL VIEW	1427
<i>Lei Ma</i>	

RESEARCH ON REAL TIME 6DOF ROBOT LOCALIZATION BASED ON VISUAL AND INERTIAL FUSION	1431
<i>Xinfang Zheng, Yongxiang Guo</i>	
RESEARCH ON TYPICAL CRAFTSMANSHIP OF SILK CHEONGSAM.....	1442
<i>Xiu-Li Huang</i>	
THE DESIGN AND APPLICATION OF PAPERLESS EXAMINATION SYSTEM	1449
<i>Amei Zhang</i>	
THE APPLICATION OF DIGITAL MEDIA TECHNOLOGY IN ART DESIGN FIELD	1454
<i>Chuan Peng</i>	
ANALYSIS OF SPACE CONSTITUENTS OF CLOTHING DIMENSIONAL MODELING DESIGN	1462
<i>Lanrong Yu</i>	
RESEARCH ON PROCESSING AND MAKING TECHNOLOGY OF WOODEN CRAFTS	1468
<i>Zhen Bai, Qiang Feng</i>	
ANALYSIS OF FUZZY ENHANCEMENT OF DIGITAL IMAGE	1474
<i>Shengyi Wu</i>	
RESEARCH ON RECOVERY SYSTEM OF DISTRIBUTION NETWORK FAULT	1479
<i>Xuedong Zhang, Yating Zhao, Ling Liu, Kai Sun, Ye Ma</i>	
STUDY ON THE SUFFICIENT CERTIFICATION OF CAUCHY CONVERGENCE CRITERION	1484
<i>Ming Wan</i>	
STUDY OF HIGHER ORDER DIFFERENTIAL MEAN VALUE THEOREM FOR MULTIVARIATE FUNCTION	1489
<i>Wenting Ma</i>	
ANALYSIS OF COMPUTER COMMUNICATION NETWORK AND ITS SECURITY TECHNOLOGY	1495
<i>Rui Wang</i>	
ANALYSIS ON SOFTWARE BUS ARCHITECTURE OF DISTRIBUTED COMPUTER.....	1501
<i>Rui Wang</i>	
INVESTIGATION THE EFFECT OF OCTREOTIDE AND PITUITRIN ON UPPER GASTROINTESTINAL BLEEDING IN CIRRHOSIS	1506
<i>Min Feng</i>	
ANALYSIS OF INFLUENCING FACTORS ON THE EFFICACY OF FUNCTIONAL DYSPEPSIA	1511
<i>Min Feng</i>	
RESEARCH OF DATABASE ENCRYPTION TECHNOLOGY AND ITS APPLICATION	1517
<i>Rui Wang</i>	
TOPOLOGICAL ANALYSIS OF URBAN SPATIAL STRUCTURE	1522
<i>Lijuan Yao</i>	
RESEARCH ON FUSION TECHNOLOGY OF FUZZY SYSTEM AND NEURAL NETWORK	1528
<i>Li Yang</i>	
RESEARCH ON NUMERICAL METHODS OF DIFFERENTIAL /ALGEBRAIC EQUATIONS FOR MULTIBODY SYSTEM DYNAMICS.....	1533
<i>Fangfang Fu</i>	
STUDY OF RUIN PROBABILITY IN DOUBLE POISSON RISK MODEL	1539
<i>Juan Zhang</i>	
STUDY ON ANTIOXIDANT ACTIVITY OF ALCOHOL EXTRACTS FROM PERSIMMON	1544
<i>Huan Chen, Zhaobiao Luo</i>	
RESEARCH ON APPLICATION OF ARTIFICIAL INTELLIGENCE IN POWER SYSTEM	1549
<i>Yujun Pan</i>	
CLOSED-LOOP COMMUNICATION MAINTENANCE MANAGEMENT BASED ON EARLY WARNING ANALYSIS	1555
<i>Gang-Song Dong</i>	
RESEARCH ON THE COMMUNICATION MANAGEMENT SYSTEM BASED ON NGOSS.....	1559
<i>Hao Zhang</i>	
RELIABILITY EVALUATION OF SUBSTATION AUTOMATON SYSTEM BASED ON IEC61850	1563
<i>Zhiyu Li</i>	
RESEARCH ON THE CONDITION MAINTENANCE CONTROL OF ELECTRICAL EQUIPMENT BASED ON CLOUD MODEL AND IMPROVED TOPSIS METHOD.....	1568
<i>Zhiyu Li</i>	
RESEARCH ON THE RELATIONSHIP BETWEEN COMMUNITY OPENING AND ROAD TRAFFIC BASED ON TRAFFIC FLOW.....	1574
<i>Yuhao Li</i>	

ESTABLISHMENT OF INTELLIGENT DEVELOPMENT EVALUATION SYSTEM FOR A CITY BASED ON ANALYTIC HIERARCHY PROCESS	1581
<i>Yuhao Li</i>	
RESEARCH ON THE OPTIMAL SELECTION FOR DAMS CONSTRUCTION SITES BASED ON THE POWER FLOW CALCULATION	1589
<i>Guangjin Shen</i>	
RESEARCH ON THE OPTIMAL DISPOSAL OF SPACE DEBRIS FOR PRIVATE FIRMS COST ANALYSIS AND RISK AVERSION	1596
<i>Guangjin Shen</i>	
ENERGY SUSTAINABLE DEVELOPMENT ISSUES IN CHINA	1601
<i>Dou Dong</i>	
ENERGY STRUCTURE OPTIMIZATION AND ECONOMIC GROWTH	1605
<i>Dou Dong</i>	
THE DETERMINATION OF SEARCH PATTERN AFTER AN AIR CRASH BASED ON THE BAYESIAN ANALYSIS	1611
<i>Ran Li</i>	
THE DETERMINATION OF MINIMUM SEARCH REGION BASED ON THE FORCE ANALYSIS AFTER AN AIR CRASH	1615
<i>Ran Li</i>	
RESEARCH ON IDENTIFYING THE BOTTLENECK OF THE AIRPORT SECURITY INSPECTION SYSTEM BASED ON THE PETRI NET	1620
<i>Dongxu Chen</i>	
THE RESEARCH ON MERGING MODES OF TOLL SQUARE BASED ON CELLULAR AUTOMATA ALGORITHM	1624
<i>Dongxu Chen</i>	
RESEARCH ON THE TOLL-GATE ON FREEWAY BASED ON THE DELAY TIME MODEL	1628
<i>Jiawen Li</i>	
THE SCHEME TO OPTIMIZE THE THROUGHPUT OF THE INSPECTION SYSTEM	1633
<i>Haoran Sun</i>	
THE SPATIAL DISTRIBUTION OF THE TEMPERATURE IN THE BATHTUB	1637
<i>Haoran Sun</i>	
THE SUN SHADOW OF POSITIONING TECHNOLOGY	1641
<i>Jixiang Zhou</i>	
MECHANICAL ANALYSIS OF SHIP BORNE MANEUVERING AND IMPROVEMENT OF CABLE ARRESTING DEVICE	1645
<i>Wenkui Ma</i>	
RESEARCH ON ACHIEVEMENT OF OLYMPIC GAMES	1649
<i>Xiaomeng Li</i>	
NEW ENERGY POWER GENERATION AND THEIR APPLICATION	1654
<i>Shengjun Tian</i>	
RESEARCH ON THE ORBITAL DEBRIS REMOVING BUSINESS	1658
<i>Xiaohua Yang</i>	
PROJECT OF OPEN ELECTRONIC EXPERIMENTAL SYSTEM PROGRAMMING SOFTWARE	1666
<i>Keli Yuan, Xingshan Li, Jian Lu</i>	
Author Index	