

2011 IEEE International Conference on Cloud Computing and Intelligence Systems

(CCIS 2011)

**Beijing, China
15 – 17 September 2011**



**IEEE Catalog Number: CFP1133N-PRT
ISBN: 978-1-61284-203-5**

TABLE OF CONTENTS

Keynote Speech

K 1	THE USAGE OF CLOUD COMPUTING IN CHINA REGIONAL HEALTHCARE <i>Dr. Steve Chen</i>	I
K 2	SERVICE ROBOTICS: DESIGN, CONTROL AND INTELLIGENCE <i>Prof. Yangsheng Xu</i>	II
K 3	CLOUD STORAGE DATA SERVICES - A CORNERSTONE TO CLOUD COMPUTING AND INTERNET OF THINGS <i>Mr. Peter Wang</i>	II
K 4	SMART CITY IN CHINA <i>Dr. Dongbin Jin</i>	IV
K 5	VIEWING CLOUD COMPUTING AND INTELLIGENT TRANSPORTATION FROM INTELLIGENT DRIVING <i>Prof. Deyi Li</i>	III
K 6	ICT - LEADING THE NEW SMART POWER CONSUMPTION <i>Prof. Jianming Liu</i>	IV
K 7	CLOUD COMPUTING: MAKING INTERNET MOBILE <i>Dr. Jian Wang</i>	V
K 8	AFFECTIVE COMPUTING AND ADVANCED INTELLIGENCE MACHINE <i>Prof. Fuji Ren</i>	V
K 9	FROM INFORMATIONALIZATION TO INTELLIGENTIZE — — THE REVOLUTION OF IOT INDUSTRY <i>Mr. Jianning Zhang</i>	V

Oral Paper

SESSION 1: ARTIFICIAL INTELLIGENCE

001-033	ARE THE URLS REALLY POPULAR IN MICROBLOG MESSAGES? <i>Anqi Cui, Min Zhang, Yiqun Liu, Shaoping Ma</i>	1
002-038	USER INTEREST MODELING BY LABELED LDA WITH TOPIC FEATURES <i>Wenfeng Li, Xiaojie Wang, Rile Hu, Jilei Tian</i>	6
003-088	ANNOTATION-AWARE WEB CLUSTERING BASED ON TOPIC MODEL AND RANDOM WALKS <i>Jiashen Sun, Xiaojie Wang, Caixia Yuan, Guannan Fang</i>	12
004-289	THE SMART GRID MULTI-UTILITY SERVICES PLATFORM BASED ON POWER FIBER TO THE HOME <i>Liu Jianming, Zhao Bingzhen, Zhuang Zichao</i>	17
005-096	SEMI-SUPERVISED LOGISTIC REGRESSION VIA MANIFOLD REGULARIZATION <i>Yu Mao, Muyuan Xi, Hao Yu, Xiaojie Wang</i>	23
006-107	A HYBRID KNOWLEDGE REPRESENTATION FOR THE DOMAIN MODEL OF INTELLIGENT FLIGHT TRAINER <i>Xiaobing Geng, Shuxin Qin, Hongxing Chang, Yiping Yang</i>	29
007-108	NAIVE BAYES CLASSIFICATION ALGORITHM BASED ON SMALL SAMPLE SET <i>Yuguang Huang, Lei Li</i>	34
008-112	STUDY ON FOOD SATETY SEMANTIC RETRIEVAL SYSTEM BASED ON DOMAIN ONTOLOGY <i>Yuehua Yang, Junping Du, Meiyu Liang</i>	40
009-135	THE RESEARCH OF RAINFALL PREDICTION MODELS BASED ON MATLAB NEURAL NETWORK <i>Xianggen Gan, Lihong Chen, Dongbao Yang, Guang Liu</i>	45
010-136	THE EXTENSION CLASSIFICATION MODEL OF EXTERNAL KNOWLEDGE SOURCES BASED ON OPEN INNOVATION <i>Xingsen Li, Zhongbiao Xiang</i>	49
011-142	ONTOLOGY-BASED MULTIMODE INFORMATION FUSION METHOD <i>Chunjiang Zhao, Huarui Wu, Ronghua Gao</i>	55
012-149	A NEW HYBRID COLLECTIVE CLASSIFICATION METHOD BASED ON RANDOM WALK AND LINK PATTERN <i>Lina Li, Jihong Ouyang, Dayou Liu, Hong Qi, Huiling Chen</i>	60
013-185	RESERCH ON FUNDAMENTAL THEORY OF SPATIAL DIRECTIONAL RELATION	65

Ke Zhang, Xiaojie Wang, Yixin Zhong

014-190	A SEMANTICS BASED SEGMENTATION ALGORITHM FOR SCENE IMAGES	70
	<i>Xiaoru Wang, Junping Du, Jie Liu</i>	
015-211	A MATCHING-IMPROVED REPARATION METHOD FOR INCOMPLETE FINGERPRINT	75
	<i>Jie Zhang, Bo Zhang, Xinjing Liu, Xiaojun Jing</i>	
016-256	CREATING A CHINESE EMOTION LEXICON BASED ON CORPUS REN-CECPS	80
	<i>Ji Li, Fuji Ren</i>	
017-262	A PARALLEL DESIGN OF COMPUTER GO ENGINE ON CUDA-ENABLED GPU	85
	<i>Qifei Zhang, Zhiqing Liu</i>	
018-264	A NON-STANDARD-SUBSTANCE PESTICIDE RESIDUE QUALITATIVE ANALYSIS METHOD BASED ON SVM	89
	<i>Yi Chen, Rui Wang, Hongqian Chen</i>	

SESSION2: COMPUTATIONAL INTELLIGENCE AND MOBILE INTELLIGENT SERVICE

019-034	MULTI-SENSOR DATA REGISTRATION FOR BRIDGE HEALTH MONITORING	94
	<i>Yun Liu, Ling Zhao</i>	
020-035	DATA COLLECTION IN WIRELESS SENSOR NETWORKS	98
	<i>Kaicheng Yin, Chaosheng Zhong</i>	
021-047	APPLICATION OF MEMETIC ALGORITHM IN CONTROL OF LINEAR INVERTED PENDULUM	103
	<i>Jing Zhang, Lixiang Zhang, Jing Xie</i>	
022-069	A LINGUISTIC FEATURE BASED TEXT CLUSTERING METHOD	108
	<i>Kansheng Shi, Leming Li, Jie He, Haitao Liu, Naitong Zhang, Wentao Song</i>	
023-070	AN IMPROVED KNN TEXT CLASSIFICATION ALGORITHM BASED ON DENSITY	113
	<i>Kansheng Shi, Lemin Li, Haitao Liu, Jie He, Naitong Zhang, Wentao Song</i>	
024-076	DESIGN AND IMPLEMENTATION OF BUSINESS-DRIVEN BI PLATFORM BASED ON CLOUD COMPUTING	118
	<i>Bin Wu, Lei Qin</i>	
025-078	DIRICHLET PROCESS MIXTURE MODELS FOR LEXICAL CATEGORY ACQUISITION	123
	<i>Bichuan Zhang, Xiaojie Wang, Guannan Fang</i>	
026-081	AN EXTENDED SOFT SET MODEL: TYPE-2 FUZZY SOFT SETS	128

Xi'ao Ma, Guoyin Wang

027-100	DESIGN AND IMPLEMENTATION OF PARALLEL STATIATICAL ALGORITHM BASED ON HADOOP'S MAPREDUCE MODEL	134
	<i>Songqing Duan, Bin Wu, Bai Wang, Juan Yang</i>	
028-118	IMPROVED MOVING OBJECTS INDEXING MODEL IN MOBILE COMPUTING ENVIRONMENT	139
	<i>Ye Liang</i>	
029-137	MEASURING THE CORRELATION BETWEEN VARIABLES BASED ON THE PROBABILITY DENSITY FUNCTION ESTIMATION	144
	<i>Sisi Chen</i>	
030-145	CAMERA SELF-CALIBRATION METHOD BASED ON GA-PSO ALGORITHM	149
	<i>Jing Li, Yimin Yang, Genping Fu</i>	
031-146	PARAGRAPH ACT BASED PRAGMATIC INFORMATION EXTRACTION IN QUESTION ANSWERING	153
	<i>Song Liu, Fuji Ren</i>	

SESSION 3: CLOUD MANAGEMENT AND STORAGE

032-001	DEVELOPMENT OF SERVERS IN CLOUD COMPUTING TO SOLVE ISSUES RELATED TO SECURITY AND BACKUP	158
	<i>Palivela Hemant, Nitin.P.Chawande, Avinash Sonule, Hemant Wani</i>	
033-014	MULTI CLOUD MANAGEMENT FOR UNIFIED CLOUD SERVICES ACROSS CLOUD SITES	164
	<i>Tiancheng Liu, Yasuharu Katsuno, Kewei Sun, Ying Li, Takayuki Kushida</i>	
034-026	LOAD BALANCE OPTIMIZATION WITH REPLICATION DEGREE CUSTOMIZATION	170
	<i>Wei Li, Shanping Li, Xingen Wang</i>	
035-053	APPLICATION ON CLOUD COMPUTING IN THE FUTURE LIBRARY	175
	<i>Li Gao, Yinghui Zhao</i>	
036-056	RESEARCH ON PARALLET QUERY TECHNOLOGY OF PXCUBE MODEL BASED ON CLOUD PATTERN	178
	<i>Yawei Zhao, Dongri Yang</i>	
037-079	THE FRAMEWORK OF A DISTRIBUTED FILE SYSTEM FOR GEOSPATIAL DATA MANAGEMENT	183
	<i>Jifeng Cui, Chao Li, Chunxiao Xing, Yong Zhang</i>	
038-093	A METHOD FOR IMPROVING INFORMATION SYNCHRONIZATION MECHANISM IN EUCALYPTUS	188
	<i>Xiuqin Lin, Xiaowei Yan, Liutong Xu, Xinyang Piao</i>	
039-106	A MANAGEMENT PLATFORM FOR EUCALYPTUS-BASED IAAS	193

Liutong Xu, Jie Yang

040-133	DETECTING AND DIAGNOSING APPLICATION MISBEHAVIORS IN ‘ON-DEMAND’ VIRTUAL COMPUTING INFRASTRUCTURES	198
	<i>Ramya M C, Sumit Kumar Bose, Michael Salsburg, Venkat Shivaram, Shrisha Rao</i>	
041-140	IMPLEMENTATION OF METHOD OBJECT IN ACTIVE OBJECT-BASED STORAGE SYSTEMS	204
	<i>Zhipeng Tan, Yanli Yuan, Dan Feng, Tian Zhan, Xudong Tu</i>	
042-191	DETECTING OPERATIONS THAT POTENTIALLY VIOLATE WELL-FORMEDNESS CONSTRAINTS FOR METADATA REPOSITORY SYSTEMS	212
	<i>Xiaofei Zhao, Zhongzhi Shi</i>	
043-220	A DYNAMIC LOAD BALANCING STRATEGY FOR CLOUD COMPUTING PLATFORM BASED ON EXPONENTIAL SMOOTHING FORECAST	220
	<i>Xiaona Ren, Rongheng Lin, Hua Zou</i>	
044-230	INCIDENT MANAGEMENT PROCESS FOR THE CLOUD COMPUTING ENVIRONMENTS	225
	<i>Chaojie Cao, Zhiqiang Zhan</i>	
045-247	DATA MINING USING HIERARCHICAL VIRTUAL K-MEANS APPROACH INTEGRATING DATA FRAGMENTS IN CLOUD COMPUTING ENVIRONMENT	230
	<i>T.R. Gopalakrishnan Nair, K.Lakshmi Madhuri</i>	
046-258	THE EFFICIENT DATA STORAGE MANAGEMENT SYSTEM ON CLUSTER-BASED PRIVATE CLOUD DATA CENTER	235
	<i>Cho Cho Khaing, Thinn Thu Naing</i>	

SESSION 4: CLOUD COMPUTING INFRASTRUCTURE PLANNING AND DATA SECURITY

047-027	ENSURING THE DATA INTEGRITY IN CLOUD DATA STORAGE	240
	<i>Wenjun Luo, Guojing Bai</i>	
048-052	GIRD OR CLOUD? SURVEY ON SCIENTIFIC COMPUTING INFRASTRUCTURE	244
	<i>Bing Yu, Jing Tian, Shilong Ma, Shengwei Yi, Dan Yu</i>	
049-060	COLLISION-SAFE WAVELENGTH ASSIGNMENT SCHEME FOR LIGHTPATH ESTABLISHMENT IN WSONS	250
	<i>Lianxing Hou, Lin Zuo, Pei Luo, Dong Liu</i>	
050-066	A REVOCATION SCHEME FOR THE CLOUD COMPUTING ENVIRONMENT	254
	<i>Xiaobiao Li, Qiaoyan Wen</i>	
051-067	THE ARCHITECTURE OF CLOUD MAUFACTURING AND ITS KEY TECHNOLOGIES RESEARCH	259

Fanghua Ning, Weizong Zhou, Fengying Zhang, Qian Yin, Xiajing Ni

052-085	ENSURING DATA STORAGE SECURITY THROUGH A NOVEL THIRD PARTY AUDITOR SCHEME IN CLOUD COMPUTING	264
	<i>Shuai Han, Jianchuan Xing</i>	
053-092	FUZZY KEYWORD SEARCH ON ENCRYPTED CLOUD STORAGE DATA WITH SMALL INDEX	269
	<i>Chang Liu, Liehuang Zh, Longyijia Li, Yu'an Tan</i>	
054-102	EXECUTION FLOW CONTROL : SIMPLIFIED DESIGN OF PARALLEL APPLICATIONS	274
	<i>Jing Jin, Xin Li, Shanzhi Chen, Yan Wang</i>	
055-113	NEXT GENERATION BROADBAND ACCESS NETWORKS EVOLVING MARKET STRUCTURE AND IMPLICATIONS OF NETWORK NEUTRALITY REGULATION	280
	<i>Abdul Wahid Tareen</i>	
056-148	ICAS: AN INTER-VM IDS LOG CLOUD ANALYSIS SYSTEMLYSIS SYSTEM	285
	<i>Shun-Fa Yang , Wei-Yu Chen, Yao-Tsung Wang</i>	
057-156	AN IMPROVED DYNAMIC PROVABLE DATA POSSESSION MODEL	290
	<i>Feifei Liu, Dawu Gu, Haining Lu</i>	
058-161	A LOAD-ADAPATIVE CLOUD RESOURCE SCHEDULING MODEL BASED ON ANT COLONY ALGORITHM	296
	<i>Xin Lu, Zilong Gu</i>	
059-189	THE RESEARCH AND DESIGN OF SQL PROCESSING IN A DATA-MINING SYSTEM BASED ON MAPREDUCE	301
	<i>Lei Zhang, Kaiping Li, Bin Wu</i>	
060-192	AN ANALYTICAL PERFORMANCE MODEL OF MAPREDUCE	306
	<i>Xiao Yang, Jianling Sun</i>	
061-194	A DYNAMIC AND INTEGRATED LOAD-BALANCING SCHEDULING ALGORITHM FOR CLOUD DATACENTERS	311
	<i>Wenhong Tian, Yong Zhao, Yuanliang Zhong, Minxian Xu, Chen Jing</i>	
062-234	A MULTI-OBJECTIVE ROUTING DECISION-MAKING MODEL FOR OPPORTUNISTIC NETWORK	316
	<i>Meng Chen, Haiquan Wang</i>	
063-252	PERVASIVE DEPENDABILITY IN WIRELESS CLOUD NETWORKING: A NOVEL BLUEGREEN TOPOLOGICAL CONTROL APPROACH	321
	<i>William Liu</i>	
064-259	A CHANNEL HOPPING BASED MAC WITHOUT HIDDEN TERMINAL PROBLEM FOR COGNITIVE NETWORKS	327
	<i>Zhifeng He, Yong Zhang, Yinglei Teng, Yinghe Wang, Xiaojun Wang</i>	

SESSION5: ADVANCED CLOUD AND VIRTUALIZATION TECHNOLOGY

065-008	VIRTUAL MACHINE PLACEMENT ALGORITHM FOR VIRTUALIZED DESKTOP INFRASTRUCTURE	333
	<i>Cao Le Thanh Man, Makoto Kayashima</i>	
066-039	RESEARCH ON ALGORITHM OF POINT CLOUD MAPREDUCE REGISTRATION	338
	<i>Song Liu, Xiaoyao Xie</i>	
067-044	DYNAMIC SHARE ENERGY PROVISIONING SERVICE FOR ONE-HOP MULTIPLE RFID TAGS IDENTIFICATION SYSTEM	342
	<i>Jianhua Liu, Weiqin Tong</i>	
068-065	RESEARCH ON DYNAMIC RECONFIGURATION TECHNOLOGY OF CLOUD COMPUTING VIRTUAL SERVICES	348
	<i>Shuai Wang, Fang Du, Xinming Li, Yi Li, Xingye Han</i>	
069-109	A COMPARATIVE REVIEW OF JOB SCHEDULING FOR MAPREDUCE	353
	<i>Dongjin Yoo, Kwang Mong Sim</i>	
070-123	A RULE-BASED SELF-MANAGEMENT STRATEGY FOR DEVICES MONITORING NETWORK	359
	<i>Yuan Yao, Jianyong Liang</i>	
071-164	TOWARDS A RAMEWORK FOR AUTOMATED SERVICE NEGOTIATION IN CLOUD COMPUTING	364
	<i>Li Pan</i>	
072-166	HOW TO MOVE YOUR OWN APPLICATIONS INTO THE CLOUD BY EXPLOITING INTERFACES AUTOMATION AND ACCESSIBILITY FEATURES	368
	<i>Fabrizio Lamberti, Andrea Sanna, Claudio Demartini</i>	
073-174	CLOUD COMPUTING BEYOND TURING MACHINES	373
	<i>Deyi Li, Yuchao Liu, Haisu Zhang, Guisheng Chen</i>	
074-196	VIRTUAL EXECUTION ENVIRONMENT FOR WINDOWS APPLICATIONS	382
	<i>Hailei Sun, Tianyu Wo</i>	
075-217	COOPERATIVE RELAY SELECTION SCHEME BASED ON GEOGRAPHICAL INFORMATION	387
	<i>Rong Wang, Xinlong Luo, Jiaru Lin</i>	
076-239	A CPU-GPU HYBRID COMPUTING FRAMEWORK FOR REAL-TIME CLOTHING ANIMATION	391
	<i>Hanwen Li, Yi Wan, Guanghui Ma</i>	
077-249	EFFICIENT RESOURCE ARBITRATION AND ALLOCATION STRATEGIES IN CLOUD COMPUTING THROUGH VIRTUALIZATION	397
	<i>T.R. Gopalakrishnan Nair, Vaidehi M</i>	

SESSION6:COMPUTATIONAL INTELLIGENCE AND MOBILE INTELLIGENT SERVICE

- 078-147 **JAPANESE NAMED ENTITY RECOGNITION FOR QUESTION ANSWERING SYSTEM** 402
Ye Liu, Fuji Ren
- 079-157 **AN EFFICIENT ANT COLONY SYSTEM FOR SOLVING THE NEW GENERALIZED TRAVELING SALESMAN PROBLEM** 407
Lianming Mou
- 080-158 **A NEW INTRUSION DETECTION METHOD BASED ON FSM AND CACHE MEMORY IN AD HOC NETWORKS** 413
Dina Sadat Jalali, Alireza Shahrbanooonezhad
- 081-188 **TOURIST FLOWS ANALYSIS AND DECISION SUPPORT SYSTEM BASED ON INTELLIGENT MOBILE PHONE** 418
Yawen Li, Xiangyun Wang, Xue Wang
- 082-200 **MODELING REPUTATION FOR SERVICE-ORIENTED AMI ENVIRONMENTS** 423
Huibing Zhang, Yibin Hou, Zhangqin Huang, Cuiqin Hou
- 083-201 **DIGITAL CORE MODELING BASED ON CT IMAGE** 428
Hang Zhou, Haisheng Li, Qiang Cai, Peng Bo
- 084-210 **ROBUST COA PLANNING WITH VARYING DURATIONS** 433
Luohao Tang, Cheng Zhu, Weiming Zhang, Zhong Liu
- 085-223 **A WEB SERVICE COMPOSITION METHOD BASED ON SUB WEB SERVICE** 438
Bo Zhang
- 086-225 **RESEARCH ON SECRECY CAPACITY ORIENTED RELAY SELECTION FOR MOBILE COOPERATIVE NETWORKS** 443
Li Wang, Tenghui Ke, Mei Song, Yifei Wei, Yinglei Teng
- 087-232 **WEB INFORMATION EXTRACTION AND ITS APPLICATION** 448
Yan Peng, Chenyue Zhang
- 088-235 **EEG-BASED EMOTION RECOGNITION IN CHINESE EMOTIONAL WORDS** 452
Mengsi Cao, Guannan Fang, Fuji Ren
- 089-236 **AN IMPROVED METHOD OF EXTRACTING EMOTIONAL ATTRIBUTE OF RELATIONS BASED ON SYNTACTICAL ANALYSIS** 457
Jun Wang, Lei Li, Fuji Ren
- 090-254 **REINFORCEMENT LEARNING WITH EGD BASED HYPER HEURISTIC SYSTEM FOR EXAM TIMETABLING PROBLEM** 462
Ei Shwe Sin
- 091-193 **MOBILE CLOUD COMPUTING AS FUTURE FOR MOBILE APPLICATIONS - IMPLEMENTATION METHODS AND CHALLENGING ISSUES** 467

SESSION7:APPLICATION OF CLOUD COMPUTING AND DISTRIBUTED TECHNOLOGY

092-040	AN INTEGRATED OPTIMIZATION MODEL FOR THE LOCATION OF DISTRIBUTION CENTERS WITH MULTIPLE PRACTICAL CONSTRAINTS <i>Yundong Gu, Yajing An, Yanchao Chen, Jin Xu</i>	472
093-062	A PAAS BASED METADATA-DRIVEN ETL FRAMEWORK <i>Liutong Xu, Jia Liao, Ruixue Zhao, Bin Wu</i>	477
094-117	IRIS RECOGNITION ON HADOOP:A BIOMETRICS SYSTEM IMPLEMENTATION ON CLOUD COMPUTING <i>Shelly, N.S. Raghava</i>	482
095-159	A NOVEL ALGORITHM FOR FINGERPRINT SINGULAR POINTS DETECTION BASED ON VECROT ORTHOGONAL THEORY <i>Hang Yin, Xiaojun Jing, Songlin Sun</i>	486
096-163	TOWARDS CHOREOGRAPHY-BASED PROCESS DISTRIBUTION IN THE CLOUD <i>Sebastian Wagner, Oliver Kopp, Frank Leymann</i>	490
097-171	AN IMPROVED NON-PARAMETRIC BACKGROUND MODEL AND TWO-LEVEL CLASSIFIER FOR TRAFFIC INFORMATION RECOGNITION <i>Song Bi, Liqun Han, Yixin Zhong, Xiaojie Wang, Hairu Guo</i>	495
098-172	RESEARCH ON THREE-LAYERED METADATA MODEL FOR OIL-GAS DATA INTEGRATION <i>Zhonggui Ma, Chengyao Wang, Zongjie Wang</i>	500
099-175	AN AUTOMATIC FACIAL FEATURE POINT LOCALIZATION METHOD <i>Qinyan Zhang, Xiaoping Li</i>	505
100-176	HEALTH CONDITION MONITORING OF AERO-ENGINE WITH UNKNOWN CLUSTERING NUMBER BASED ON ANT COLONY ALGORITHM <i>Chuanchao Zhang</i>	510
101-179	TACTICS OF HANDLING DATA IN INTERNET OF THINGS <i>Wenchong Shi, Maohua Liu</i>	515
102-224	A QOS-AWARE SYSTEM FOR MOBILE CLOUD COMPUTING <i>Peng Zhang, Zheng Yan</i>	518
103-248	THE COST EFFECTIVE STRUCTURE FOR DESIGNING HYBRID CLOUD BASED ENTERPRISE E-LEARNING PLATFORM <i>Shu-Min Chuang, Kuo-En Chang, Yao-Ting Sung</i>	523
104-253	A NOVEL ENHANCED EDUCATION APPLICATION OF CLOUD COMPUTING <i>Guang Li, Guisheng Chen</i>	526

105-255 **THE DESIGN OF INDOOR EMERGENCY MANAGEMENT SYSTEM BASED ON WIRELESS LOCATION** 530
Han Liu, Jie Li, Hongwei Jia

106-245 **BUSINESS INTELLIGENCE IN THE CLOUD: A CASE OF PAKISTAN** 536
Surat khan, Bin Zhang, Faizullah Khan, Siqi Chen

SESSION 8: OTHERS

107-016 **THE SHORTEST UNIVERSAL SOLUTIONS FOR NON-LINEAR DYNAMIC EQUATION** 541
Shaozhong Cao, Yang Li

108-043 **THE COMMUNICATION OF CAN BUS USED IN SYNCHRONIZATION CONTROL OF MULTI-MOTOR BASED ON DSP** 545
Xinhua Yu, Shaozhong Cao

109-054 **MINING OPEN SOURCE SOFTWARE DATA USING REGULAR EXPRESSIONS** 550
Qifeng Li, Bing Li

110-073 **A STUDY ON THE RELIABILITY ALLOCATION ALGORITHM BASED ON RANGE** 555
An Jiang, Jianjun Hao

111-083 **CONTROL ALGORITHM BASED ON SHAPE RECOGNITION** 559
Jian Lan, Shuiqing Yu, Liangliang Xu, Xuejuan Chen

112-130 **SIMULATION EXPERIMENTAL ANALYSIS OF PZT DRIVER CIRCUIT** 564
Bo Gao, Ge Wu, Jiangdong Shan, Xiaojian Tian

113-131 **CHIRP EXTRACTION OF WAVE-BREAKING-FREE SOLITON IN A PASSIVELY MODE-LOCKED YB-DOPED FIBER LASER BASED ON STFT AND WVD** 569
Ge Wu, Xiaojian Tian, Bo Gao, Jiangdong Shan

114-139 **SCIENTIFIC PROCESSING METHOD FOR COURSE EVALUATION DATA IN UNIVERSITIES** 574
Dongmei Ai, Xiaojun Ning, Bo Yang, Jianing Li

115-141 **A VARIABLE PARAMETER EFFICIENT M-LAW IMPROVED PROPORTIONATE AFFINE PROJECTION ALGORITHM** 577
Xiao Xia, Songlin Sun, Xiaojun Jing, Hai Huang

116-143 **A DESCRIPTION ALGORITHM FOR COMMUNITY STRUCTURE** 582
Lei Zhang, Zhixiong Zhao, Bin Wu, Juan Yang

117-153 **DETECT AND TRACK THE DYNAMIC DEFORMATION HUMAN BODY WITH THE ACTIVE SHAPE MODEL MODIFIED BY MOTION VECTORS** 587
Jia Ma, Fuji Ren

118-154	A DYNAMIC LOAD BALANCE ON GPU CLUSTER FOR FORK-JOIN SEARCH	592
	<i>Yanlin Ou, Hu Chen, Lushuang Lai</i>	
119-178	TWO NOVEL 60 GHZ COPLANAR WAVEGUIDE STRUCTURE FILTERS WITH ELECTRIC AND MAGNETIC COUPLING	597
	<i>Huisheng Wang, Xiuping Li</i>	
120-197	OPTIMIZATION METHOD OF URBAN RAIL TRANSIT TRAIN RUNNING SCHEME	602
	<i>Jie Yang, Yongshi Xu, Ruihua Xu</i>	
121-202	A DOMESTIC SPEECH RECOGNITION BASED ON HIDDEN MARKOV MODEL	606
	<i>Jun Tao, Xiaoxiao Jiang</i>	
122-204	A NEW ALGORITHM OF INCOMPLETE FINGERPRINT SEGMENTATION BASED ON LBP	610
	<i>Bo Zhang, Jie Zhang, Haixia Jiang, Xiaojun Jing</i>	
123-206	CHINESE EVENT PLACE PHRASE RECOGNITION OF EMERGENCY EVENT USING MAXIMUM ENTROPY	614
	<i>Fang Zhu, Zongtian Liu, Juanli Yang, Ping Zhu</i>	
124-228	AN APPROACH TO THE COMPUTATION OF DISTANCE OF CONCEPT LATTICE BY UTILIZING WANED VALUE OF INTENSION	619
	<i>Ping Yuan, Yuan Ma</i>	
125-229	AN INCREMENTAL ALGORITHM FOR FORMATION A CONCEPT LATTICE BASED ON THE INTENT WANED VALUE	625
	<i>Xuesong Dai, Yuan Ma</i>	
126-261	FIELD-ORIENTED CONTROL OF SYNCHRONOUS MOTOR BASED ON ADAPTIVE EXTENDED KALMAN FILTER	633
	<i>Luqun Peng, Lun Xie, Fei Wu, Chongjian Li</i>	
127-263	APPLICATION RESEARCH OF SUPPORT VECTOR MACHINE IN E-LEARNING FOR PERSONALITY	638
	<i>Wen Gong, Wansen Wang</i>	