

# **International Conference on Computer Science and Service System**

**(CSSS 2014)**

**Advances in Intelligent Systems Research Volume 109**

**Bangkok, Thailand  
13 – 15 June 2014**

**ISBN: 978-1-63439-017-0**

**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© (2014) by Atlantis Press  
All rights reserved.

<http://www.atlantis-press.com/php/pub.php?publication=csss-14>

Printed by Curran Associates, Inc. (2014)

For permission requests, please contact Atlantis Press  
at the address below.

Atlantis Press  
29 avenue Laumière  
75019 Paris  
France

[contact@atlantispress.com](mailto:contact@atlantispress.com)

**Additional copies of this publication are available from:**

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

# TABLE OF CONTENTS

## COMPUTER SCIENCE AND TECHNOLOGY

<b>A SCALABLE PROXIMITY MEASURE FOR LINK PREDICTION VIA LOW-RANK MATRIX ESTIMATION</b> .....	1
<i>Liu Ye, Wang Zhisheng, Yin Jian, Pan Yan</i>	
<b>AN IMPROVED PATCH BASED MULTI-VIEW STEREO (PMVS) ALGORITHM</b> .....	5
<i>Lichun Wang, Ran Chen, Dehui Kong</i>	
<b>SPIRAL QAM MODULATED CO-OFDM SYSTEM WITH INCREASED TOLERANCE TOWARD LASER PHASE NOISE</b> .....	9
<i>Li Chong, Chen Lin</i>	
<b>A SECOND-ORDER TWO-SCALE FEM ANALYSIS FOR TIME-FRACTIONAL DIFFUSION EQUATION WITH SMALL PERIODIC COEFFICIENTS</b> .....	13
<i>Wang Ziqiang, Cao Junying</i>	
<b>THE RESEARCH AND ANALYSIS OF ASSOCIATION RULES ON THE INTERNET OF THINGS</b> .....	17
<i>Yanxin Xie, Yongjiang Wang</i>	
<b>RESEARCH OF GLOBAL LOCALIZATION FOR HUMANOID ROBOT BASED ON VISION</b> .....	21
<i>Qiubo Zhong, Chunya Tong, Yu Wang</i>	
<b>THE ACOUSTIC ANALYSIS OF VOICE PARAMETERS ABOUT THE VOWELS AND CONSONANTS OF LHASA TIBETAN</b> .....	25
<i>Liu Zeguo, Chen Xiaoying, Ai Jinyong</i>	
<b>FAST INCREMENTAL SVM LEARNING ALGORITHM BASED ON CENTER CONVEX VECTOR</b> .....	29
<i>Bai Dongying, Han Jun, Zhang Ci</i>	
<b>AN ALLOCATION METHOD FOR RESOURCE OF IaaS PLATFORM WITH ENERGY-SAVING CONSIDERATION IN THE DATA CENTER</b> .....	33
<i>Xia Qingxin, Lan Yuqing, Wang Long, Xiao Limin, Wang Xiang</i>	
<b>THIN CLOUD-FOG COVER REMOVED FROM REMOTE SENSING IMAGERY BASED ON STATIONARY WAVELET TRANSFORMATION</b> .....	40
<i>He Hui, Chen Hai</i>	
<b>A CONCEPT OF APPLYING SOCIAL NETWORK ANALYSIS IN MEDICAL DIAGNOSIS</b> .....	45
<i>Sodsee Sunantha, Komkhao Maytiyanin</i>	
<b>AN IMPROVED LQI-BASED LINK QUALITY ESTIMATION MECHANISM FOR WIRELESS SENSOR NETWORKS</b> .....	49
<i>Chen Wei, Luo Jian</i>	
<b>GAUSSIAN PROCESS REGRESSION PREDICTION-BASED DYNAMIC RISK NEGOTIATION STRATEGY</b> .....	55
<i>Hu Jun, Zou Li</i>	
<b>THE INFLUENCE OF RAILWAY BRIDGE VEHICLE VIBRATION ON SAND LIQUEFACTION IN A DAM FOUNDATION</b> .....	59
<i>Ma Donghe, Guo Xuezhong, Li Yanping, Xu Xiaowu, Huang Ruhui, Zhang Fengde</i>	
<b>AUTHOR-TOPIC-SENTIMENT MIXTURE(ATSMT) MODEL FOR AUTHOR'S SENTIMENT ANALYSIS</b> .....	64
<i>Yang Kehua, Yang Xiang</i>	
<b>AN ANALYSIS OF CHARACTERS AND STRUCTURES OF WEB PAGES BASED ON REGULAR EXPRESSIONS</b> .....	69
<i>Xu Lei</i>	
<b>EFFICIENT SPECTRAL-GALERKIN METHOD FOR EIGENVALUE PROBLEMS</b> .....	73
<i>Jun Zhang, Xinyue Fan</i>	
<b>DESIGN AND IMPLEMENTATION OF CLUSTER EVOLUTION BASED MOBILITY MODEL</b> .....	78
<i>Wang Dong, Wang Zhouli, Li Xiaohong, Xiao Zhu</i>	
<b>IMAGE RECONSTRUCTION USING WTA-ICA MODEL IN CONTOURLET TRANSFORM DOMAIN</b> .....	83
<i>Shang Li, Sun Zhanli</i>	
<b>A SIMILARITY ALGORITHM OF TREES WITH COMPLICATED LABELS</b> .....	87
<i>Jihua Wang, Yiliang Liu</i>	

<b>FREQUENCY DOMAIN ACQUISITION METHOD FOR DUAL-SYSTEM GNSS</b> .....	91
<i>Zhang Zhan, Xiong Zhang, Zhang Xiaolin, Su Linlin</i>	
<b>A LARGE-CAPACITY INFORMATION HIDING METHOD FOR HEVC VIDEO</b> .....	95
<i>Jiaji Wang, Rangding Wang, Wei Li, Dawen Xu, Meiling Huang</i>	
<b>OIL PRODUCTION PREDICTION WITH NEURAL NETWORK METHOD</b> .....	99
<i>Liu Haohan, Zhang Songlin, Li Wei</i>	
<b>OIL PRODUCTION PREDICTING WITH MODIFIED BP NEURAL NETWORK METHOD</b> .....	102
<i>Liu Haohan, Li Wei, Zhang Songlin</i>	
<b>EFFICIENT MULTIMODAL FUSION FOR PERSON AUTHENTICATION COMBINING THREE BIOMETRIC MODALITIES</b> .....	105
<i>Wang Fenghua, Zheng Qiumei, Meng Wenjie</i>	
<b>RESEARCH ON VIDEO OBJECT EXTRACTION TECHNOLOGY</b> .....	109
<i>Rencai Gao, Li Zhang</i>	
<b>A NEW HYBRID MODEL FOR VIDEO SHOT SALIENCY EXTRACTION</b> .....	113
<i>Tao Fang</i>	
<b>A NOVEL IMPROVED TFIDF ALGORITHM</b> .....	118
<i>Yang Kehua, Ye Dan</i>	
<b>A CASE OF AREA- AND ENERGY-EFFICIENT HETEROGENEOUS MESH NETWORK-ON-CHIP</b> .....	123
<i>Jili Yan, Guoming Lai, Xiaola Lin</i>	
<b>AN EFFICIENT MIXED SCHEDULING ALGORITHM FOR THE HYBRID TASK SET ON HETEROGENEOUS MULTIPROCESSOR</b> .....	127
<i>Wang Hui, Xu Cheng, Zeng Lining</i>	
<b>DATA MINING AS A TOOL FOR INFORMATION RETRIEVAL IN DIGITAL INSTITUTIONAL REPOSITORIES</b> .....	132
<i>Tonon Leticia, Fusco Elvis</i>	
<b>AN APPROACH TO ENSURE THE TRUSTWORTHINESS OF CLOUD PLATFORM USING THE TRUSTED CHAIN</b> .....	136
<i>Wang Guan, Gao Lubaihui</i>	
<b>DESIGN OF FREQUENCY RESPONSE MASKING BASED RECONFIGURABLE FILTER BANKS FOR SOFTWARE RADIO CHANNELIZATION USING SEMIDEFINITE PROGRAMMING</b> .....	139
<i>Wu Chen, Xu Xinzhou, Zhao Li, Zou Cairong</i>	
<b>A TIME RESERVATION DYNAMIC ALGORITHM BASED ON THE VARIABLE FREQUENCY INTERVAL DVFS TECHNOLOGY</b> .....	143
<i>Jun Xiao, Cheng Xu, Lining Zeng</i>	
<b>LEARNING OBJECTS AUTOMATIC GENERATION SYSTEM FOR MULTIPLE DATA FORMATS</b> .....	147
<i>Li Yushun, Li Meng</i>	
<b>SEQUENCE DATASET SIMILARITY MEASURE BY AGGREGATED SHARED EMERGING SEQUENCES</b> .....	151
<i>Chen Xiangtao, Wang Jing, Ding Pingjian</i>	
<b>THE ANALYSIS ON THE DURATION AND PITCH OF LHASA TIBETAN PROSODIC UNIT</b> .....	155
<i>Ai Jinyong, Chen Xiaoying, Guo Xiaodan</i>	
<b>ADAPTIVE WEIGHT-BASED ENERGY-EFFICIENT SCHEDULING ALGORITHM FOR HETEROGENEOUS COMPUTING SYSTEMS</b> .....	159
<i>Xu Cheng, Shu Pan, Li Tao, Liu Yan</i>	
<b>RESEARCH ON A BILATERAL FILTERING BASED IMAGE DENOISING ALGORITHM FOR NIGHTLY INFRARED MONITORING IMAGES</b> .....	164
<i>Wang Zhong-Ce, Xu Wei</i>	
<b>VIRTUAL REALITY DIGITAL PRESERVATION AND DISPLAY OF THE NATIONAL CULTURAL HERITAGE</b> .....	168
<i>Li Jianyang, Ruan Sishi</i>	
<b>PRIVACY PRESERVING MECHANISM FOR MULTI-SENSITIVE ATTRIBUTES BASED ON TIME SEQUENCE</b> .....	172
<i>Yang Qiuwei, Li Yingting</i>	
<b>RATE CONTROL ALGORITHM OF H.264 ON IPP FOR TETRA</b> .....	176
<i>Jian-Qing Liu, Shu-Juan Hou, Hai Li</i>	
<b>A BRIEF ANALYSIS OF SHAPE RECOGNITION</b> .....	180
<i>Zhaoyang Qiao</i>	

<b>STUDY ON PREDICTION OF CEMENT-SOIL GRAVITY RETAINING WALL SECURITY RISK BASED ON BP</b> .....	184
<i>Cai-Hui Li</i>	
<b>THE DESIGN AND IMPLEMENTATION OF THE ANALYSIS SYSTEM OF DATA-PROVIDING BEHAVIOR BASED ON DATA MINING</b> .....	187
<i>Xiaoguo Wang, Chuan Sun, Dandan Zhang</i>	
<b>FEATURE MATCHING ALGORITHM BASED ON KAZE AND FAST APPROXIMATE NEAREST NEIGHBOR SEARCH</b> .....	191
<i>Cai Ze-Ping, Xiao De-Gui</i>	
<b>CRYPTANALYSIS OF A SHOULDER-SURFNG RESISTANT PASSWORD AUTHENTICATION SCHEME</b> .....	195
<i>Tsaur Maw-Jinn, Lue Chung-Chia</i>	
<b>RESEARCH OF TRUSTED AUTHENTICATION IN WIRELESS MESH NETWORKS</b> .....	198
<i>Peng Zhai, Liping Zhang, Manman Cao, Ke Han</i>	
<b>FRAME-BASED SKIP MODE DECISION FOR DISTRIBUTED VIDEO CODING</b> .....	202
<i>Gang Wang, Gaobo Yang, Leida Li, Yun Song</i>	
<b>STUDY ON COMPLEXITY METRICS OF BUSINESS PROCESS</b> .....	206
<i>Sun Huan, Hou Hong</i>	
<b>CCA SECURE TYPE-BASED PROXY RE-ENCRYPTION IN THE ADAPTIVE CORRUPTION MODEL WITHOUT RANDOM ORACLE</b> .....	210
<i>Yanni Chang, Mingxing He</i>	
<b>INS: A NOVEL P2P SEMANTIC SEARCH APPROACH USING INTEREST ATTENUATION POLICY</b> .....	214
<i>Yu Shuangyuan, Ju Zhuoya</i>	
<b>A BITERM-BASED DIRICHLET PROCESS TOPIC MODEL FOR SHORT TEXTS</b> .....	218
<i>Pan Yali, Yin Jian, Liu Shaopeng, Li Jing</i>	
<b>3D SKELETON EXTRACTION METHOD USING POTENTIAL FIELD ON OPENCL</b> .....	222
<i>Lu Lu, Wang Xuewen</i>	
<b>RESEARCH ON PATH PLANNING FOR HUMANOID ROBOT BASED ON ANT COLONY ALGORITHM</b> .....	227
<i>Xiaoliang Zhang, Qiubo Zhong</i>	
<b>COMPARISON OF TWO VBM ARITHMETIC BASED ON ALZHEIMER'S DISEASE MRI ANALYSIS</b> .....	231
<i>Ke Zhou, Jie Cai, Gangqiang Xiong</i>	
<b>SOLVING DIFFUSION EQUATION USING A NEW MULTIQUADRIC QUASI- INTERPOLATION</b> .....	237
<i>Cao Junying, Wang Ziqiang</i>	
<b>ZERO-IF AND MODULARIZATION RF DESIGN OF WIRELESS IDENTIFICATION READER FOR UHF PASSIVE TAGS</b> .....	241
<i>Li Linsen, Chen Gongliang, Wu Yue, Li Jianhua</i>	
<b>RESEARCH OF NETWORK TEACHING PLATFORM BASED ON THE TECHNOLOGY OF DATA MINING</b> .....	244
<i>Fan Hongjun, Kang Dong</i>	
<b>IMPROVED TLS-ESPRIT ALGORITHM RESEARCH FOR UNIFORM LINE ARRAY</b> .....	248
<i>Si Yuanlei</i>	
<b>THE FEELING-OF -KNOWING AND FEELING-OF-NOT-KNOWING JUDGMENT UNDER DIFFERENT LEVELS OF PROCESSING AND MEMORY MATERIALS</b> .....	252
<i>Sun Yunyi, Chen Xi, Bai Ye, Chen Yiwen</i>	
<b>A TEST DATA COMPRESSION METHOD BASED ON K-L TRANSFORM</b> .....	257
<i>Cheng Yali, Kuang Jishun</i>	
<b>AN AUTOMATIC NETWORK LIVE MIGRATION MECHANISM FOR CLOUD COMPUTING</b> .....	262
<i>Chen Min-Xiou, Terng Huai-Hsien</i>	
<b>OPTIMIZATION AND REALIZATION OF G.729 PROTOCOL BASED ON ARM 9 PLATFORM</b> .....	266
<i>Wu Chunming, Zhang Bowen, Li Yanxia</i>	
<b>PROGRESS IN MACHINE LEARNING-BASED PREDICTING SUBCELLULAR LOCALIZATIONS OF PROTEINS WITH MULTIPLE SITES</b> .....	270
<i>Qiao Shanping</i>	
<b>DYNAMIC ANALYSIS OF A SUSPECTED STUXNET MALICIOUS CODE</b> .....	274
<i>Guangwei Wang, Hong Pan, Mingyu Fan</i>	
<b>DESIGN AND IMPLEMENTATION OF THE NETWORKED MEASUREMENT AND CONTROL SYSTEM BASED ON THE INTERNET</b> .....	278
<i>Ma Shengqian, Liu Weibing, Li Xiaoyong</i>	

<b>AN IMPROVED ADRC AND ITS APPLICATION</b> .....	282
<i>Guo-Dong Zhou, Dun-Li Zhang</i>	
<b>APPLICATION OF CONCATENATED CODES IN THE IEEE802.11B CHANNEL CODING</b> .....	286
<i>Sun Zengyou, Li Huanhuan</i>	
<b>DELAYED PROJECTION NEURAL NETWORK FOR SOLVING DEGENERATE QUADRATIC PROGRAM</b> .....	290
<i>Yong Yang, Jing-Wen Zhang</i>	
<b>PRINCIPAL ORIENTATION AND GENERALIZED VANISH POINT BASED ROAD DETECTION</b> .....	294
<i>Xu Cheng, Cai Youqi, Tian Zheng, Li Tao, Liu Yan</i>	
<b>AN EFFICIENT METHOD OF LICENSE PLATE LOCATION UNDER COMPLICATED BACKGROUND</b> .....	298
<i>Fengsong Hu, Manman Zhou</i>	
<b>A FAST STITCHING ALGORITHM FOR GENERATING PANORAMA ON MOBILE INTELLIGENT TERMINAL</b> .....	302
<i>Bian Guangyu, Zhang Dengkui</i>	
<b>PERFORMANCE ANALYSIS OF DUAL-HOP MULTI-RELAYING WITH MAX-MINI RELAY SELECTION OVER COMPOSITE FADING CHANNELS</b> .....	306
<i>Wu Chia-Hao, An John F.</i>	
<b>A PROMOTION SAR RAW DATA COMPRESSING ALGORITHM BASED ON BAQ</b> .....	312
<i>Li Sun, Yuedong Zhang, Min Wang, Fufei Gu</i>	
<b>THE ALGORITHM ANALYSIS AND COMPUTER IMPLEMENTATION OF DIGITAL FILTER</b> .....	316
<i>Yuying Liu</i>	
<b>A NEW DATA TRANSFER SCHEME FOR EMMC CONNECTED SUBSYSTEMS</b> .....	320
<i>Deng Shulan</i>	
<b>IMAGE PREPROCESSING METHODS USED IN METEOROLOGICAL MEASUREMENT OF THE TEMPERATURE TESTING SYSTEM</b> .....	324
<i>Jiajia Zhang, Ruyi Liang, Yu Liu, Tao Jiang, Xianluo Meng, Chunai Wu</i>	
<b>SCRAMBLING CODE AND CHANNELISATION CODE PARALLEL GENERATION FOR WCDMA ON VECTOR CORE</b> .....	330
<i>Yu Yongguang, You Hongyan</i>	
<b>TOWARDS CLOUD COMPUTING SECURITY CONSIDERATIONS IN SMART GRID</b> .....	335
<i>Ma Shouming, Yu Chunlei, Gu Wei</i>	
<b>AN IMPROVED ANT COLONY ALGORITHM FOR PROBABILISTIC QOS ROUTING</b> .....	339
<i>Ding Genhong, Guo Dongwei, Ding Yuchen</i>	
<b>DESIGN OF IP TRACEBACK SYSTEM BASED ON GENERALIZED BLOOM FILTER</b> .....	343
<i>Chen Zhonguo, Liu Bo, Pu Shi, Huang Chen</i>	
<b>SINUSOIDAL STEADY-STATE RESPONSE RESEARCH BASED ON THE TIME DOMAIN, S DOMAIN AND MATLAB SOFTWARE</b> .....	349
<i>Yuying Liu, Zhijian Yin</i>	
<b>AN EFFECTIVE STRATEGY OF AREA REDUCTION FOR CUSTOM INSTRUCTION BASED ON BASIC CELL</b> .....	353
<i>Liu Haiming, Ma Yuchun, Wu Qiang</i>	
<b>RESEARCH ON QUICKLY SEARCH IN MASSIVE REMOTE SENSING IMAGES BASED ON HBASE</b> .....	357
<i>Chen Wu, Jicheng Quan, Yuwei Yuan, Yu Liu, Hongwei Wang, Xiuying Zhao, Mingquan Yang</i>	
<b>THE ANALYSIS OF THE LOCATION ALGORITHM FOR MOBILE TARGETS BASED ON MONO-STATION PASSIVE INFRARED METHOD</b> .....	361
<i>Zhang Shi-Quan, Yin Shi-Min, Zeng Jun</i>	
<b>TOPOLOGICAL OPTIMIZATION OF HUBS IN P2P NETWORK</b> .....	365
<i>Yanmei Liu, Huanhuan Cui, Yuda Chen</i>	
<b>A MAC PROTOCOL OPTIMIZATION ALGORITHM IN WIRELESS SENSOR NETWORK BASED ON REAL PLATFORM</b> .....	370
<i>Zhang Leilei, Luo Jian</i>	
<b>SECURITY IN NEXT-GENERATION WIRELESS SENSOR NETWORKS</b> .....	374
<i>Gao Lijie, Chen Zhigang</i>	
<b>INDEPENDENT COMPONENT ANALYSIS IN DEVELOPMENT OF CHINESE AGRICULTURE INSURANCE</b> .....	378
<i>Xiaoxia Chen</i>	
<b>PROBABLY SECURE ID-BASED SIGNATURE WITHOUT TRUSTED PKG FOR SMART GRID</b> .....	383
<i>Peng Wei, Bai Xia</i>	

<b>A TWO-DIMENSIONAL CELLULAR AUTOMATA BASED METHOD FOR MULTIPLE IMAGE</b> .....	387
<i>Ping Ping, Wang Zhi-Jian, Xu Feng</i>	
<b>EXTRACTING HISTORICAL INFORMATION AND FAULT LOCALIZATION INFORMATION THAT MAY CONTRIBUTE TO THE EFFECTIVENESS OF TEST CASE PRIORITIZATION</b> .....	391
<i>Lin Chu-Ti, Guo Sin-Ting, Wang Jiun-Shiang, Tsai Chang-Shi</i>	
<b>AUTOMATIC MR BRAIN TUMOR IMAGE SEGMENTATION</b> .....	395
<i>Lu Yisu, Chen Wufan</i>	
<b>THE APPLICATION OF GENETIC ALGORITHM IN THE OPTIMAL OFFER OF STOCHASTIC NUMBER OF BIDDERS</b> .....	399
<i>Chen Guodong</i>	
<b>WEIGHT CALCULATION AND PURITY IDENTIFICATION OF SYMPLECTIC SELF-ORTHOGONAL CODES</b> .....	404
<i>Kai Cao, Luobin Guo, Chaoyang Li, Yuxiang Zheng, Leinan He, Zhenpeng Zhao</i>	
<b>USER-CREDIBILITY BASED SERVICE REPUTATION MANAGEMENT FOR SERVICE SELECTION</b> .....	408
<i>Jiuxin Cao, Yi Dong, Yi Qin, Bo Liu, Fang Dong, Tao Zhou</i>	
<b>REALIZATION OF HIGH-PERFORMANCE CONFIDENTIAL DATA TRANSMISSION BASED ON FPGA</b> .....	415
<i>Fan Yu, Peipei Yang</i>	
<b>A FRAMEWORK FOR PROVIDING DYNAMIC CONTEXT-AWARE USER INTERFACE OF THE SECONDARY DEVICES USING THE SMARTTV IN HOME NETWORK ENVIRONMENT</b> .....	419
<i>Moon Jaewon, Lim Tae-Beom, Park Sungju, Kum Seungwoo, Kim Kyungwon, Park Jongbin, Yoon Myunghyun, Shin Dong-Hee</i>	
<b>THE INFORMATION SYSTEM SECURITY SITUATIONAL AWARENESS BASED ON CLOUD COMPUTING</b> .....	423
<i>Zhicheng Ma, Lin Jin, Peng Yang</i>	
<b>A FAST MODE DECISION ALGORITHM FOR INTRA PREDICTION IN HEVC</b> .....	427
<i>Wei Li, Rangding Wang, Jiaji Wang, Dawen Xu, Jian Xu</i>	
<b>IMPROVED GROUPING GENETIC ALGORITHM FOR THE PICKUP AND DELIVERY PROBLEM WITH TIME WINDOWS</b> .....	431
<i>Ding Genhong, Mao Juncheng, Ding Yuchen</i>	
<b>SECURE COMMUNICATION SCHEME FOR COLOR IMAGE BASED ON INDEX TECHNOLOGY</b> .....	435
<i>Peng Jingyu, Ren Yong</i>	
<b>SPECTRAL CLUSTERING BASED ON MULTI-SCALE STOCHASTIC TREE IMAGE SEGMENTATION ALGORITHM</b> .....	441
<i>Chen Yuantao, Zuo Jingwen</i>	
<b>AN IMPROVED MONTE CARLO RAY TRACING FOR LARGE-SCALE RENDERING IN HADOOP</b> .....	445
<i>Li Rui, Zheng Yue</i>	
<b>AN ESTIMATION ALGORITHM OF CARRIER FREQUENCY OFFSET BASED ON SIGNAL RECONSTRUCTION IN COOPERATIVE OFDM SYSTEM</b> .....	450
<i>Bao Jingjing, Liu Yuan</i>	
<b>APPLICATION OF ASSOCIATION RULES DATA MINING IN THE DETERMINATION THE OPERATION TARGET VALUES IN THE THERMAL POWER PLANT</b> .....	454
<i>Xiang Wan, Niansu Hu, Min Huo</i>	
<b>AIRY PULSES INTERACTIONS WITH SOLITONS</b> .....	458
<i>Wu Hao, Fu Xiquan</i>	
<b>A COMPUTER AIDED CASE TOOL FOR TEMPORAL KNOWLEDGE VISUALIZATION</b> .....	462
<i>Wang Yue, Ma Jixin</i>	
<b>OPTIMIZATION SERVICE MIGRATION SCHEME FOR LOAD BALANCE IN CLOUD COMPUTING</b> .....	466
<i>Yingchi Mao, Jiulong Wang, Lili Zhu, Qing Jie</i>	
<b>A NOVEL LIGHTWEIGHT AUTHENTICATION PROTOCOL FOR YML FRAMEWORK</b> .....	470
<i>Ly Xin, Chen Hao, Xu Feng, Mao Yingchi</i>	
<b>PSDRA: PRIORITY SELECTION DELIVERY ROUTING ALGORITHM IN OPPORTUNITY NETWORK</b> .....	474
<i>Wu Jia, Chen Zhi-Gang</i>	
<b>IDENTIFICATION OF DIFFERENT PATTERNS OF MP3 AND DURATION CALCULATION</b> .....	478
<i>Li Yaqi, Cao Yizhen</i>	
<b>LIMITING PRIVACY BREACHES IN DIFFERENTIAL PRIVACY</b> .....	482
<i>Ouyang Jia, Yin Jian, Liu Shaopeng</i>	

<b>IMPROVED PSO ALGORITHM AND ITS APPLICATION IN FUNCTION OPTIMIZATION .....</b>	<b>490</b>
<i>Dun-Li Zhang, Guo-Dong Zhou</i>	
<b>MOBILE DATA EXCHANGE MODEL FOR LARGE-SCALE CAMPUS NETWORK BASED ON EXI.....</b>	<b>494</b>
<i>Chunyan Yu, Huibin Wang, Shenghui Zhao</i>	
<b>A NEW METHOD TO DETECT PRIMARY USER EMULATION ATTACKS IN COGNITIVE RADIO NETWORKS .....</b>	<b>499</b>
<i>Peng Kai, Zeng Fanzi, Zeng Qingguang</i>	
<b>SEQUENCE JOIN.....</b>	<b>503</b>
<i>Xiaomei Song, Xiaojun Ye, Xiaoqing Zeng, Dong Xie</i>	
<b>THE IMPACT OF TOPOLOGICAL CHARACTERISTICS ON AD HOC NETWORKS BASED ON COMPLEX NETWORK.....</b>	<b>507</b>
<i>Wang Dong, Li Xianyu</i>	
<b>SPECTRUM ALLOCATION ALGORITHM UNDER THE NOVEL CHANNEL HANDOVER CONSTRAINT IN COGNITIVE RADIO NETWORK.....</b>	<b>511</b>
<i>Chen Kuangyu, Zeng Fanzi, Zeng Qingguang</i>	
<b>A ROBUST IMAGE RETIREVAL ALGORITHM BASED ON INTEREST POINTS .....</b>	<b>515</b>
<i>Gao Wenwen, Sun Yanhong</i>	
<b>EPKM:AN EFFICIENT AND PRACTICAL KEY MANAGEMENT SCHEME FOR HIERARCHICAL WIRELESS SENSOR NETWORKS.....</b>	<b>519</b>
<i>Wei Yang, Yue Qi, Xinqiang Luo, Qin Wang</i>	
<b>IMPROVED TECHNIQUE OF PAPR REDUCTION COMBINED PRE-DISTORTION IN OFDM SYSTEMS .....</b>	<b>523</b>
<i>Luo Zhinian, Shi Jian</i>	
<b>A NOVEL PROTEIN COMPLEX IDENTIFICATION ALGORITHM BASED ON THE INTEGRATION OF LOCAL NETWORK TOPOLOGY AND GENE ONTOLOGY .....</b>	<b>527</b>
<i>Luo Jiawei, Wang Xiaoping</i>	
<b>VEHICLE SERVICE MIDDLEWARE BASED ON OSGI.....</b>	<b>532</b>
<i>Luo Juan, Wu Feng, Alkubati Fahmi Ameen Abdo</i>	
<b>AN ALTERNATIVE ALGORITHM FOR FORWARD RESOURCE SCHEDULING IN CDMA2000-1X EVDO NETWORK.....</b>	<b>536</b>
<i>Zou Tiegang, Du Wenpeng</i>	
<b>COMBINATION OF COLOR AND SIGNIFICANT EDGE FEATURES IN IMAGE RETRIEVAL.....</b>	<b>539</b>
<i>Chen Liu, Zhou Wei</i>	
<b>A GRID-BASED UNEQUAL CLUSTERING ALGORITHM FOR THE MULTI-HOP ROUTING IN WSN.....</b>	<b>543</b>
<i>Xu Ying, Zheng Xiongfei, Li Renfa</i>	
<b>SALIENT REGION DETECTION BASED ON FREQUENCY-TUNING AND REGION CONTRAST .....</b>	<b>547</b>
<i>Li-Hua Fu, Liang Guo, Wei-Dong Wu</i>	
<b>A SCHEME SUPPORTING EFFICIENT ATTRIBUTE REVOCATION FOR CLOUD STORAGE BASED ON CPABE N/A.....</b>	<b>N/A</b>
<i>Cai Bodong, Xiong Liaote, Ye Junyan, Ma Meng, Tang Zhuo</i>	
<b>DISAMBIGUATING NAMED ENTITIES BY SEMANTIC WEB .....</b>	<b>551</b>
<i>Azari Ideh, Koohpeyma Fateme</i>	

## **AUTOMATIC CONTROL AND SERVICE SYSTEM**

<b>APPLICATION OF AHP IN THE BANK STOCK'S INVESTMENT SELECTION.....</b>	<b>555</b>
<i>Hua Li, Shi-Ting Dou</i>	
<b>THE DESIGN OF PROFIBUS-DP HUB BASED ON FPGA .....</b>	<b>559</b>
<i>Ping Jiao, Tong Zhou</i>	
<b>LEAD TIME QUOTATION UNDER TIME-VARYING DEMAND AND CAPACITY .....</b>	<b>563</b>
<i>Nguyen Thanh-Ha, Wright Mike</i>	
<b>A CPN-BASED VERIFICATION METHOD OF WEB SERVICE DESCRIBED BY OWL-S .....</b>	<b>568</b>
<i>Zhang Guanghao, Lan Yuqing</i>	
<b>STUDY OF CADRE ONLINE INQUIRY LEARNING SYSTEM .....</b>	<b>574</b>
<i>Qian Dongming, Qiu Huixian, Qu Yu</i>	
<b>RESPONSIBILITIES OF MANAGER AND LEADER IN RELATION TO THE REDUCTION OF WORKPLACE STRESS.....</b>	<b>580</b>
<i>Qian Li</i>	



<b>WEB SERVICE MATCHING FOR RESTFUL WEB SERVICES BASED ON PARAMETER SEMANTIC NETWORK</b> .....	584
<i>Zhongbo Wu, Zhumei Dou, Chaonan Song</i>	
<b>DESIGN OF DEMAND RESPONSE ANALYSIS CONTROL ARCHITECTURE BASED ON MULTI-AGENT TECHNOLOGY</b> .....	590
<i>Lei Ting, Xie Yingxin, Wang Fengyu, Liu Yin, Dong Gang, Fang Chen</i>	
<b>A NEW SPARSE REPRESENTATION ALGORITHM FOR SPEECH DENOISING</b> .....	595
<i>Zhou Yan</i>	
<b>RESEARCH ON THE KNOWLEDGE-BASED COMPREHENSIVE DECISION SUPPORT SYSTEM FOR HUMAN RESOURCE MANAGEMENT IN SAAS MODE</b> .....	599
<i>Dai Liangtie, Zhou Qiongyu</i>	
<b>AN EFFICIENT METHOD FOR CUSTOM INSTRUCTION MAPPING UNDER THE SAFETY ASSURANCE OF CODE GENERATION</b> .....	603
<i>Luo Yongping, Ma Yuchun, Wu Qiang</i>	
<b>THE FACTORS AFFECTING RESTAURANT CUSTOMERS' RETURN INTENTION AFTER ONLINE GROUP BUYING PROMOTION</b> .....	607
<i>Chen Yao, Chen Yiwen, Li Xin</i>	
<b>IMPACT OF EMOTIONAL INTELLIGENCE ON EMOTIONAL LABOR STRATEGY: THE MEDIATING EFFECTS OF GENERAL SELF-EFFICACY AND ORGANIZATIONAL IDENTIFICATION</b> .....	611
<i>Zeng Yan, Chen Xi, Chen Yiwen</i>	
<b>A MAP MATCHING ALGORITHM TO ELIMINATE MISCALCULATION BASED ON LOW-SAMPLE-RATE DATA</b> .....	615
<i>Dong Wang, Zhiwei Wang, Xiaohong Li, Zhu Xiao</i>	
<b>THE TRANSFORMER CONDITION ASSESSMENT MODEL IS BASED ON THE FUZZY CALCULATION</b> .....	620
<i>Shi Haofeng, Li Tao, Zhang Cheng</i>	
<b>IMPROVE THE QUALITY OF FASTER THAN AT-SPEED TESTING USING THE STATISTICS INFORMATION</b> .....	625
<i>Ding Shaowei, Kuang Jishun</i>	
<b>AN INTER-VEHICLE COMMUNICATION BASED COOPERATIVE SPEED SUGGESTION ALGORITHM FOR SMOOTHING FLUCTUATIONS IN STOP-AND-GO TRAFFIC</b> .....	629
<i>Wang Dong, Sun Jiancong, Li Xiaohong, Xiao Zhu</i>	
<b>TECHNICAL IMPROVEMENTS ON MOBILE APP BASED TAXI DISPATCHING SYSTEM</b> .....	634
<i>Chen Wenjie</i>	
<b>INCENTIVES RESEARCH OF KNOWLEDGE WORKERS IN SMALL AND MEDIUM HIGH-TECH ENTERPRISES</b> .....	638
<i>Liu Fang, Chen Xi, Chen Yiwen</i>	
<b>COMPLEX EVENT PROCESSING OVER DISTRIBUTED UNCERTAIN EVENT STREAMS</b> .....	642
<i>Zhang Xinlong, Wang Yongheng, Zhang Xiaoming</i>	
<b>PERFORMANCE ANALYSIS OF CONTACTLESS ENERGY TRANSMISSION BASE ON OPTIMUM ENERGY-EFFICIENCY PRODUCT</b> .....	647
<i>Liu Jinfeng, Wang Xudong, Yan Meicun</i>	
<b>THE DESIGN OF PROFIBUS-DP AI BASED ON BUTTERWORTH</b> .....	651
<i>Ping Jiao, Tong Zhou</i>	
<b>THE MULTI-OBJECTIVE DECISION-MAKING BASED ON DEA AND ANALYTIC HIERARCHY PROCESS</b> .....	655
<i>Chen Guodong</i>	
<b>CASCADE CONTROL FOR HYDRAULIC AUTOMATIC GAUGE CONTROL OF HOT ROLLING MILLS BASED ON DATA-DRIVEN THEORY</b> .....	659
<i>Zhang Xiaodong, Liu Xinping, Gao Weixi</i>	
<b>THE STUDY ON THE DEVELOPMENT OF DECISION SUPPORT SYSTEMS IN RESPONSE TO CATASTROPHIC SOCIAL RISKS</b> .....	663
<i>Zhenhua Xie, Zhen He</i>	
<b>THE BUILDING OF NAVAL GUN DYNAMICS SIMULATION MODEL BASED ON ADAMS</b> .....	667
<i>Yang Ming-Hua, Wang Guo-Gang</i>	
<b>DESIGN AND REALIZATION OF THE VIBRATION CYLINDER BAROGRAPH DATA ACQUISITION SYSTEM</b> .....	671
<i>Sha Feng, Wang Chang-Hao, Li Hai-Ming</i>	
<b>WEB SERVICE RECOMMENDATION USING OPTIMIZED ITERATIVE COLLABORATIVE FILTERING</b> .....	675
<i>Wang Binbin, Guo Jie, Zhou Zuojian, Pan Jingui</i>	

<b>CONTROL STRATEGY ON A CLASS OF CONTROL SYSTEM</b> .....	680
<i>Wu Wei, Du Wencai</i>	
<b>RESEARCH OF CONVERGED CABLE ACCESS PLATFORM IN TRI-NETWORKS INTEGRATION</b> .....	684
<i>Ni Yepeng, Yang Cheng, Liu Jianbo</i>	
<b>THE TECHNOLOGY DIFFUSION EFFECT OF INTERNATIONAL INTELLECTUAL RETURNEES</b> .....	689
<i>Shuyun Li, Shaozhi Chen</i>	
<b>RESEARCH ON STABILIZATION CONTROL METHOD FOR HUMANOID ROBOT</b> .....	693
<i>Lou Jianming, Zhong Qiubo, Zhang Xiaohui</i>	
<b>DEVELOPMENT AND APPLICATION OF INTEGRATED SERVICES IN METROPOLITAN AREA TRANSMISSION NETWORK</b> .....	697
<i>Shuyan Wang, Xiaohui Li</i>	
<b>LINE CORRECTION FOR ROBOT GO-FORWARD USING IMAGE DETECTION APPROACH</b> .....	701
<i>Hsia Shih-Chang, Fu Wei-Siang</i>	
<b>DISCOVERING THE POTENTIALS AND DIRECTIONS OF MOBILE PAYMENT APPLICATIONS DEVELOPMENT AN EXPLORATORY STUDY IN TAIWAN</b> .....	705
<i>Liu Hsuan-Hung, Tsai Dwen-Ren</i>	
<b>SIMULATION RESEARCHES ON FEED METHOD OF GSM MICROSTRIP ANTENNA FOR IMPEDANCE MATCH</b> .....	709
<i>Jian-Wei Ye, Jian-Fang Ye, Jia-Le Tu</i>	
<b>EFFECTIVENESS OF MENTAL MODEL-BASED TRAINING FOR COMPLEX SYSTEM OPERATORS: A QUASI-EXPERIMENTAL STUDY</b> .....	715
<i>Lin Xiaomin, Bai Xinwen, Hao Jianming</i>	
<b>A NEW SELECTION MODEL FOR THE ADAPTABILITY SCHEME OF GRADUATE EMPLOYMENT INFORMATION SYSTEM</b> .....	719
<i>Dong Li-Li</i>	
<b>APPLICATION RESEARCH ON THE EQUIPMENT MEASURING SLUDGE THICKNESS IN COALMINE CHANNEL</b> .....	723
<i>Qiu Xingguo, Fang Yisong</i>	
<b>THE ADAPTABILITY EVALUATION OF GRADUATE EMPLOYMENT INFORMATION SYSTEM</b> .....	730
<i>Dong Lili</i>	
<b>A RESEARCH ON THE PERFORMANCE COMMUNICATION QUESTIONS IN ENTERPRISE PERFORMANCE MANAGEMENT</b> .....	733
<i>Li Zhiwei</i>	
<b>RESEARCH OF PERMANENT MAGNETIC BRUSHLESS DC MOTOR FUZZY SELF- ADAPTIVE PID CONTROLLER BASED ON MATLAB / SIMULINK</b> .....	737
<i>Xuejie Wang, Peng Wang, Ying Lou</i>	