2011 IEEE International Conference on Computer Science and Automation Engineering

(CSAE 2011)

Shanghai, China 10-12 June 2011

Volume 1 Pages 1-737



IEEE Catalog Number: ISBN:

CFP1138L-PRT 978-1-4244-8727-1

	TABLE OF CONTENTS VOL	01
1-0001-10013	A EQUATION FOR ENUMERATING LOOPLESS UNICURSAL MAPS ZhangYongli, LiuYanpei, CaiJunliang	1
1-0002-10017	RESEARCH ON DISTRICT COLLABORATIVE DESIGN BASED ON RELATION EXPRESSION Ma Jun	5
1-0003-10019	ANALYSIS OF LANDING IMPACT PERFORMANCE FOR LUNAR LANDER BASED ON FLEXIBLE BODY XU Lei, NIE Hong, WAN Junlin, LIN Qing, CHEN Jinbao	10
1-0004-10049	SHORT-TERM POWER SYSTEM LOAD FORECASTING BASED ON IMPROVED BP ARTIFICIAL NEURAL NETWORK Zhang Xinbo, Chen Jinsai	14
1-0005-10053	AN INCREMENTAL ALGORITHM OF SUPPORT VECTOR MACHINE BASED ON DISTANCE RATIO AND K NEAREST NEIGHBOR Liu Bing-xiang, Cheng Xiang	18
1-0006-10075	A CONSTRUCTION OF DE-DISJUNCT MATRICES WITH SYMPLECTIC SPACE Xu Juan, Zhao Ping	21
1-0007-10077	TWO KINDS OF COONS-LIKE PATCH WITH SHAPE PARAMETERS Juncheng LI, Bingjun LI, Lian YANG, Juncheng LI	24
1-0008-10082	INTEGRATIVE TACTICAL DECISION-MAKING OF INFORMATION-BASED COOPERATIVE AIR COMBAT WITH AMELIORATIVE LANCHESTER EQUATIONS Kaifang Wan, Xiaoguang Gao	28
1-0009-10094	CONSTRUCTION P2P FIREWALL - HTTP-BOTNET DEFENSE MECHANIS Tung-Ming Koo, Hung-Chang Chang, Guo-Quan Wei	33
1-0010-10106	A NEW MODEL REDUCTION STRATEGY FOR NONLINEAR DISTRIBUTED PARAMETER SYSTEMS Mian Jiang, Hua Deng	40
1-0011-10107	A NEW SECURE TOKEN FOR ENHANCING WEB SERVICE SECURITY Chi Po Cheong, Chris Chatwin, Rupert Young	45
1-0012-10108	CONTINUOUS CORE/PERIPHERY ARCHITECTURE FEATURES OF C2 ORGANIZATIONS ANALYSIS BASED ON SOCIAL NETWORK ANALYSIS Chang Shuchun, Li Lixing	49
1-0013-10133	ADAPTIVE AND AUTOMATED FAULT-TOLERANCE FOR MULTI-AGENT SYSTEMS Aarti Singh, Dimple Juneja, A.K.Sharma	53

1-0014-10134	AN IMPROVED GENETIC ALGORITHM FOR COMBINATORIAL OPTIMIZATION DING hua-fu, LIU xiao-lu, LIU xue	58
1-0015-10135	A MUSEUM VISITORS GUIDE WITH THE A* PATHFINDING ALGORITHM Zhiguang Xu, Michael Van Doren	62
1-0016-10138	RESEARCH ON RAIL PRESSURE CONTROL OF DIESEL ENGINE BASED ON GENETIC ALGORITHM NONLINEAR PID WeiJun REN, XianXin SHI, ShengJie JIAO, ChangJian ZHU, Qiong ZHANG	67
1-0017-10143	PARTICLE SWARM OPTIMIZATION BASED ON ADAPTIVE MANY MUTATION AND DISCRETE DEGREE Jia Song-hao, Yang Cai, Tian Yan, Zhang Hai-yu	72
1-0018-10145	HOW TO REDUCE COSTS OF BUSINESS LOGIC MAINTENANCE Tomas Cerny, Michael J. Donahoo	77
1-0019-10147	DYNAMIC ANALYSIS OF THE SPACECRAFT STRUCTURE ON ORBIT MADE UP OF HONEYCOMB SANDWICH PLATES Luo Hao, Liu Geng, Ma Shangjun, Liu Wenbin	83
1-0020-10158	NON-UNIFORM HYPERBOLIC BLENDING B-SPLINE CURVES Zhu Ping, Wang Guozhao	88
1-0021-10162	LOCATIONCLOAKINGALGORITHMSBASEDONREGIONALCHARACTERISTICSLei Yang, Lei Wei, Hongzhou Shi, Qinming Liu, Dexing Yang	93
1-0022-10164	HUMAN-COMPUTER INTERACTION (HCI): AN OVERVIEW Alex Roney Mathew, Aayad Al Hajj, Ahmed Al Abri	99
1-0023-10169	DESIGN OF BOOTLOADER IN VIDEO ANALYSIS PLATFORM BASED ON DM6446 Zhang Qi-gui, Shen Hai-chao	101
1-0024-10170	TWO KINDS OF NUMERICAL VALUE SIMULATION FOR CONTROLLING CHAOS IN PERMANENT MAGNET SYNCHRONOUS MOTOR YAO Qi-guo	104
1-0025-10171	MODELING OF C3I COMMUNICATION NETWORK BASED ON REAL-TIME QUEUING THEORY Yu Liu, Yong Wu, Jiangdong Zhang	109
1-0026-10175	THE RESEARCH ON COOPERATIVE E-GOVERNMENT IN GRID ENVIRONMENT WANG Hong-xia	113
1-0027-10176	A NEW METHOD OF CAD DRAWING MANAGEMENT BASED ON CONTENT PIECES Yao Zhiying, Cao Haiqing, Yu Mingxin	119
1-0028-10180	RESEARCH ON SUPPLIER SELECTION METHOD	123

	Shizhen Bai, Ying Ma, Hong Huo	
1-0029-10182	RESEARCH AND DEVELOPMENT OF THE DIGITAL ENGINE SIMULATION PLATFORM Diming Lou, Yanjuan Zhu, Aimin Du, Yubiao Du	127
1-0030-10184	COMPUTER SIMULATION FOR IMPROVING THE LIQUID CRYSTAL DISPLAYS OPTICAL PERFORMANCE Yali Gao, Yuyan Wang	132
1-0031-10185	CULTURAL ALGORITHM BASED LONG-TERM OPTIMIZATION SCHEDULING OF CASCADED HYDRO-PLANT Fan-nie Kong, Yan Li	130
1-0032-10186	INDIRECT ADAPTIVE NEURO FUZZY CONTROLLER FOR A CLASS OF NON-LINEAR SYSTEMS Amineh Baberi, Maryam Zekri, Saeid Hosseiniea	140
1-0033-10187	EXPERIMENTAL INVESTIGATIONS AND CFD VALIDATION ON THE OPEN-WATER PERFORMANCE OF PODED PROPULSOR SHENG Li, XIONG Ying, WANG Song	145
1-0034-10189	SPEECH ENHANCEMENT USING HARMONIC REGENERATION Hou Xuchu, Zhu Xiaojing	150
1-0035-10193	FUZZY WAVELET NEURAL NETWORKS WITH HYBRID ALGORITHM IN NONLINEAR SYSTEM IDENTIFICATION Mehrnoosh Davanipoor, Maryam Zekri, Farid Sheikholeslam	153
1-0036-10194	HMM-BASED STATE PREDICTION FOR INTERNET HOT TOPIC Ruifang Liu, Wenbin Guo	157
1-0037-10206	A PIPELINED BEAMFORMING DELAY CALCULATION ARCHITECTURE IN ULTRASOUND IMAGING SYSTEM Zhanxiang Zhao, Tian Xiang, Ming Gao, Chenghao He, Xin Zhang, Xi Jin	162
1-0038-10207	RELIABILITY ESTIMATION OF NEURAL NETWORKS WITH HUMAN FACTORS UNDER EMERGENCY OF NUCLEAR POWER PLANT Li Zhang, Jian-jun Jiang, Yi-qun Wang, Kun Zhang, ling-ling Gu, Yu-yuan Peng, Cheng Zhou, ling-ling Gu	167
1-0039-10209	PROGRAM DESIGN OF AN ONLINE DYNAMIC BALANCING SYSTEM FOR GRINDING-WHEEL AND SPINDLE Fan Hongwei, Jing Minqing, Liu Heng	173
1-0040-10211	EXTENSION OF THE QUADRATIC BÉZIER CURVES BASED ON THE LINEAR COMBINATION OF BASIC FUNCTIONS Zou Jing, Liang Xikun	178
1-0041-10212	RESEARCH ON ADAPTIVE DISTRIBUTED INTRUSION DETECTION SYSTEM MODEL BASED ON MULTI-AGENT	182

Dong Huailin, Xu Tianmao, Wu Qingfeng, Liu Yangbin

1-0042-10217	A ROBUST BLIND SOURCE SEPARATION ALGORITHM BASED ON GENERALIZED VARIANCE Huagang Yu, Gaoming Huang, Jun Gao	186
1-0043-10219	TWO PARAMETERS EXTENSION OF QUARTIC BÉZIER CURVE AND ITS APPLICATIONS Hang Houjun	191
1-0044-10220	RESEARCH AND SIMULATION OF ROLLING MISSILE'S CONTROL SYSTEM FAN Shi-peng, LIN De-fu, LU Yu-long, Zhang Hong	195
1-0045-10240	DESIGN OF CAMPUS CLOUD MODEL BASED ON TELECOM PUBLIC SERVICE PLATFORM Xin Lu, Mao-Quan Zhang	199
1-0046-10241	MOVING TARGET DETECTION UNDER COMPLEX BACKGROUND BASED ON CODE BOOK Ruohong Huan, Zhehu Wang, Xiaomei Tang, Qingzhang Chen	203
1-0047-10242	DESIGN OF SOFTWARE TO SEARCH WEBPAGE TROJAN HORSE IN IIS SERVER Xu Ming Kun, Chen Ming, Hu Yan	208
1-0048-10244	PERFORMANCE INVESTIGATION OF MULTIPULSE CONVERTER FOR LOW VOLTAGE HIGH CURRENT APPLICATIONS Rakesh Maurya, Pramod Agarwal and S.P.Srivastava	211
1-0049-10245	THE SIMULATION STUDY BASED ON THE SPACE VECTOR MODULATION METHOD FOR PMSM CONTROL SYSTEM ZHAO Gang, WU Fozhu,	217
1-0050-10247	QUANTITATIVE THREAT ASSESSMENT OF DENIAL OF SERVICE ATTACKS ON SERVICE AVAILABILITY Xiuzhen Chen, Shenghong Li, Jin Ma, Jianhua Li	220
1-0051-10256	A THINNING METHOD FOR FINGERPRINT IMAGE BASED ON HIT-MISS TRANSFORMATION Chunyou WEN, Guangwu AO, Ying TIAN	225
1-0052-10257	THE IMPLEMENTATION OF MSK BASED ON DSP AND COMPLEX ANALYTIC BANDPASS FILTER Kuifu Wang, Juming Cheng	229
1-0053-10265	THE CHARGE PATTERN FOR CHENG-MIAN-LE PASSENGER TRANSPORTATION LINE YAN Guang-yin	233
1-0054-10270	TEXTURE SYNTHESIS BASED ON THE FACE SMOOTHNESS AND NORMAL LingHu Yong-fang, Shu Heng	238
1-0055-10273	THE AUTOMATON MODELING OF TYPICAL NETWORK ATTACKS Shi Zhicai	243

1-0056-10275	MOBILE AD HOC NETWORK Qiuyuan Huang, Renzhi Cao, Bobin Deng, Xingfu Wang	247
1-0057-10279	LOW-POWER DESIGN OF IMPEDANCE MEASUREMENT SYSTEM BASED ON MSP430F149 Lin Yan, Liu Wen Ding	252
1-0058-10282	TUNING OF PID CONTROLLERS WITH CMAC-BASED GENETIC ALGORITHM Ming-Feng Yeh, Min-Shyang Leu, Ti-Hung Cher	255
1-0059-10285	NEW NONLINEAR IDENTIFICATION METHOD OF PLATINUM RESISTANCE SENSOR BASED ON IPSO-RBFNN Shaoyi Xu, Wei Li, Aiguo Hu	260
1-0060-10286	STUDY AND IMPROVEMENT ON VIRTUAL ARRAY METHOD OF BEAM FORMING DONG Shu-min, LIANG Guo-long, FU Jin, DONG Shu-min	265
1-0061-10290	AN NEW ESTIMATOR FOR DOPPLER PARAMETERS BASED ON IMPROVED WIGNER HOUGH TRANSFORM $LI\ Zhi,\ XU\ Can,\ SHI\ Lei$	269
1-0062-10291	DESIGN OF MINING EQUIPMENT HEALTH DIAGNOSTIC SYSTEM (4M SYSTEM) Cheng Xiaohan, Meng Guoying, Li Wei, He Xiao	273
1-0063-10292	RESEARCH ON DECISION-MAKING METHODOLOGY IN MANUFACTURING TECHNOLOGIES BASED ON FUZZY LOGIC Yanwei Xu, Tancheng Xie	277
1-0064-10297	DESIGN OF A DATABASE MIDDLEWARE BASED ON TCP/IP PROTOCOL Deng Shiyang	281
1-0065-10299	FUZZY IMMUNE PID CONTROL OF PH VALUE IN CHEMICAL INDUSTRY PROCESS Xie Shihong, Gong Wenzhan	285
1-0066-10303	THE ANALYSIS OF M/M/1 QUEUE MODEL WITH N POLICY FOR DAMAGED NODES IN MANET Xia Wen-jie, Yan Han, Liu Feng-yu	289
1-0067-10306	AN IMPROVED GRADIENT-BASED NICHING GENETIC ALGORITHM AND ITS APPLICATION Jia Yuge, Nie Ru	295
1-0068-10312	ULTRA-WIDEBANDIMPLEMENTATIONOFPRINTEDRECTANGULARMONOPOLE ANTENNAZuosheng Xie, Weiwen Li, Yong Liu, Baiqiang You	300

1-0069-10313	AN APPROACH OF SLIP PREVENTION BASED ON LMI FOR ELECTRIC VEHICLES Qiao-ling Wang, Yu-ping Yang	304
1-0070-10314	OPTIMUM RELAY LOCATION IN COOPERATIVE COMMUNICATION NETWORKS WITH SINGLE DF RELAY XU Lei, ZHANG Hong-wei, LI Xiao-hui, WU Xian-liang	309
1-0071-10315	RESEARCH OF AN SPACECRAFT AUTOMATIC TEST SYSTEM Li Xianjun, Li Zhongwen, Ye Gang, Ma Shilong	314
1-0072-10319	THE RESEARCH OF WATERMARK TECHNOLOGY IN DIGITAL RIGHT MANAGEMENT Yan-Feng ZHAO, Yang-Xia LUO	318
1-0073-10320	RESEARCH ON THE METHOD OF RAPID DESIGN BASED ON INFORMATION INTEGRATION Hu Wenchao	322
1-0074-10323	A CONTROL ALGORITHM OF GENERAL 6R MECHANIC ARM BASED ON INVERSE KINEMATICS Baida Qu, Baoguo Xu	327
1-0075-10324	A MODEL OF TASK COLLABORATION WITH SIMULATION FOR IOT Deng Sui, Cao Hongbing, Shen Jie, Liu Haitao	331
1-0076-10328	A NEW ALGORITHM FOR REMOVING COMPRESSION ARTIFACTS OF WAVELET-BASED IMAGE Ke Du, Haiyun Han, Gang Wang	336
1-0077-10331	THE IMPROVEMENT OF S-MAC BASED ON DYNAMIC DUTY CYCLE IN WIRELESS SENSOR NETWORK Haigang Hu, Jie Min, Xiaodong Wang, Yu Zhou	341
1-0078-10333	GLOBAL DYNAMICS OF THE PERIODIC SEIR EPIDEMIC MODEL Xinli Hu, Junli Liu	346
1-0079-10335	E-GOVERNANCE CHALLENGES AND CLOUD BENEFITS Aprna Tripathi, Bhawana Parihar	351
1-0080-10337	A BST-BASED APPROACH TO DICTIONARY STRUCTURE FOR CHINESE WORD SEGMENTATION Chang Ge, Ningjing Ma and Xudong Chen	355
1-0081-10340	FACE EXTRACTION FROM VIDEO SEQUENCES BY K-MEANS CLUSTERING AND FUSION Under the property of the sequence of the property of th	358
1-0082-10342	AN ERROR CONCEALMENT APPROACH FOR COMPENSATION OF ENTIRE LOST FRAME Raju M.Tugnayat, Ankit R. Tugnayat, N.K. choudhari	362

1-0083-10343	FRONTO-PARTIAL LOBE ACTIVATION DURING STABLE BOOLEAN CALCULATION Xiuzhen Wang, Weiquan Gu	366
1-0084-10344	THE APPLICATION OF ISOLATED NICHE GENETIC ALGORITHM IN POWER SYSTEM REACTIVE POWER OPTIMIZATION Cai Chang-chun, Wu Min, Wang Bin	371
1-0085-10345	HIGH QUALITY GRIDS GENERATION AND NUMERICAL SIMULATION OF THE FLOW FIELD AROUND WING-BODY CONFIGURATION Zhanke Li, Meng Wu	375
1-0086-10347	STUDY ON WSN TOPOLOGY DIVISION AND LIFETIME XU Jiu-qiang, WANG Hong-chuan, LANG Feng-gao, WANG Ping, HOU Zhen-peng	380
1-0087-10350	A LOW LATENCY HIGH THROUGHPUT ROUTER FOR ON-CHIP INTERCONNECT NETWORKS Jinwen Li, Shubo Qi	385
1-0088-10351	INTELLIGENT FUZZY CONTROLLER DESIGN OF PRESSURE BALL DRYING SYSTEM Linglong Wang, Manchen Xiong, He Wang, Hongqing Chang	389
1-0089-10354	WV-SVM WITH GENETIC ALGORITHMS FOR GAS LOAD FORECASTING Zhaolin Lai, XiaoZhong Xu	393
1-0090-10355	APPLICATION OF AUTOMATIC GAUGING TECHNOLOGY OF ROD PUMP DYNAMOMETER CARD IN THE OILFIELD Tianjian Sun, Junfeng Shi, Mingjian Dai, Lei Xu, Yahui Wang, Fang lan Jin	399
1-0091-10356	EXTRACTION OF SHAPE FEATURE FOR IMAGE AUTHENTICATION Yan Zhao, Weimin Wei	404
1-0092-10357	ON SOLVING THE GALBRUN EQUATION VIA SEM Dong QU, Jing YANG, Yubo YANG	409
1-0093-10358	RESEARCH ON ATTRIBUTE REDUCTION BASED ON VARIABLE PRECISION ROUGH SETS MODEL Xiaoyan Wang, Sichun Yang,Bin Ji	413
1-0094-10359	WAVELET ANALYSIS WITH TIME-SYNCHRONOUS AVERAGING OF PLANETARY GEARBOX VIBRATION DATA FOR FAULT DETECTION AND DIAGNOSTICS Jing Yu, Viliam Makis	417
1-0095-10360	FAST CONVERGENT GAUSSIAN MIXTURE MODEL IN MOVING OBJECTS DETECTION Jiao Bo, Yan Liao-liao, Li Wei	422
1-0096-10361	RESEARCH ON GRID CONNECTION CONTROL FOR DOUBLY-FED WIND POWER SYSTEM TAN Guojun, LIU Yi, LI Yuan, CHEN Yuan	426

1-0097-10362	A NEW ENERGY-EFFICIENT UNEQUAL CLUSTERING ALGORITHM FOR WIRELESS SENSOR NETWORKS Huiyong Yuan, Yongyi Liu, Jianping Yu	431
1-0098-10364	MODELING AND VIRTUAL PROTOTYPE SIMULATION OF ACTIVE VIBRATION ISOLATION PLATFORM FOR OPTICAL DEVICES ON VEHICLE Changchun Gao, Mengwei Zhang	435
1-0099-10365	SINGLE MACHINE PROBLEM WITH A MINIMAX CRITERIA AND PREEMPTION PENALTIES Emran Mohammadi, Mehdi Heydari	440
1-0100-10366	A MODEL FOR COMBINING TOPOLOGICAL AND DIRECTIONAL RELATIONS Sun Wei, Ouyang Jihong, Ma Tingxin	445
1-0101-10372	PARAMETER ESTIMATIONS WITH GAMMA DISTRIBUTION BASED ON PROGRESSIVE TYPE-I INTERVAL CENSORING Peng Xiuyun, Yan Zaizai	449
1-0102-10373	THE MULTILEVEL MODEL AND SAS PROGRAMS Xiaodong Wang, Jun Tian	454
1-0103-10375	RDIBP: REDUNDANCY IDENTIFICATION ON BOOLEAN FUNCTIONS WITH PATHS HUANG Yue, CHAI Zhilei, XU Wenbo	459
1-0104-10378	AN EMERGENCY ROUTING MODEL BASED ON FUZZY ROAD CONVECTIVITY SHI Liuhong, YANG Bin	465
1-0105-10380	CONCURRENT-SECURE ANONYMOUS FINGERPRINTING SCHEME SUPPORTING BATCH VERIFICATION Liu Xin	470
1-0106-10384	DYNAMIC REQUIREMENTS EXPLORATION METHOD USING GREY THEORY OPERATIONS FOR FLEXIBILE PLATFORM DESIGN Zhongkai Li, Rui Wang	475
1-0107-10386	PERSONALIZED ANONYMITY IN SOCIAL NETWORKS DATA PUBLICATION Lihui Lan, Hua Jin, Yang Lu	479
1-0108-10388	A HIERARCHICAL HYBRID STRUCTURE FOR BOTNET CONTROL AND COMMAND Zhiqi Zhang, Baochen Lu, Peng Liao, Chaoge Liu, Xiang Cui	483
1-0109-10390	APPLICATION OF SERIALIZATION ENHANCED SSO SYSTEM Guanhua Wang	490
1-0110-10395	ESTIMATES FOR CONVERGENCE RATE OF NESTED ITERATIVE METHODS	495

	FANG CAI, JIE XIAO, ZHAO-HONG XIANG	
1-0111-10399	3D TYPE-SELECTION AND DESIGN OF EPICYCLIC GEAR TRAIN Huiwu Wang, Miao Liu, Hongjiang Wang, Haiyuan Zhang	499
1-0112-10403	APPLICATION OF CAID IN SYSTEMATICAL INDUSTRIAL DESIGN Minning Zhou, Weimin Guo	503
1-0113-10408	A SIMPLE MOTION HEURISTIC FOR CONTROLLING MOBILE SINKS IN DELAY TOLERANT SENSOR NETWORKS Samer Hanoun, Saeid Nahavandi	508
1-0114-10411	AN INSIGHT INTO THE PARAMETRIC MULTICHANNEL WIENER FORWULATION Siow Yong Low, Sven Nordholm	513
1-0115-10412	LIFTING DYADIC WAVELETS AND DESIGN OF DECOMPOSITION FILTERS WITH SHORT LENGTH Turghunjan Abdukirim, Aireti Abulikemu, Taxpulat Eziz, Zhang haiying	517
1-0116-10414	ON PINNING SYNCHRONIZATION OF COMPLEX DYNAMICAL NETWORKS BY A SINGLE IMPULSIVE CONTROLLER Quanjum Wu, Li Xu, Hua Zhang, Jin Zhou	521
1-0117-10415	RESEARCH AND REALIZATION OF MULTIDISCIPLINARY CO-SIMULATION BASED ON HLA Hu HAN	526
1-0118-10416	THE LEADER AND EXTREMIST IN THE BOUNDED CONFIDENCE MODEL ON FLOCKING MOVEMENT WORLD Shusong LI, Shiyong ZHANG	531
1-0119-10417	DESIGN OF GREENHOUSE REMOTE MONITORING SYSTEM BASED ON LABVIEW Junlong Fang, Fulu Wang	536
1-0120-10420	A ROBUST ILLUMINATION CLASSIFIER USING ROUGH SETS K. R. Singh, M. A. Zaveri, M.M. Raghuwanshi	540
1-0121-10422	MULTI-OBJECTIVE OPTIMIZATION CONTROL IN MONITORING SYSTEM FOR FACILITY AGRICULTURE BASED ON WIRELESS SENSOR NETWORK Antai Han, Jianfeng Li, Hui Peng, Zhiqiang Chen, Zhong Liao	545
1-0122-10425	TEXTURE IMAGE SEGMENTATION BASED ON SPECTRAL CLUSTERING ENSEMBLE VIA MARKOV RANDOM FIELD Bingxiang Liu, Jianhua Jia	550
1-0123-10430	CARDIOPULMONARY AUSCULTATION SIMULATION TEACHING SYSTEM Zi-Ming Zhang, Wang Lu, Yuan-Zheng Shi, Tinglei Yang, Shuli Liang	555
1-0124-10431	OVERVIEW OF 3D TEXTILE DYNAMIC SIMULATION RESEARCH	558

Bao Xiaomin, Ni Xiaoqing, Wang Yaming, Zhu Hanyu

1-0125-10432	THE ANALYSIS OF INTELLECTUAL CAPITAL INTEGRATION FACTORS BASED ON DEMATEL IN M & A ENTERPRISES Jing Yang, De Guo	563
1-0126-10433	DESIGN OF REMOTE CONTROL FOR MULTIPLE STEPS TEMPERATURE SYSTEM Cai-hong Liu, Jin-shui Ji, Ya-ting Xue	568
1-0127-10434	DESIGN OF CONTROL MODULE FOR ADC BASED ON FPGA <i>Xiu-ping Chen</i>	571
1-0128-10435	ALGORITHM FOR GEOMAGNETIC NAVIGATION AND ITS VALIDITY EVALUATION Guo CaifaLi Anliang, Cai Hong, Yang Huabo	573
1-0129-10442	A NEW SIMPLE HUMAN ABNORMAL ACTION DETECTION BASED ON STATIC IMAGES Yang Liu, Qing Wang	578
1-0130-10443	THE EXPONENTIAL STABILITY CRITERIA OF IMPULSIVE SWITCHED NEURAL NETWORKS WITH TIME-INVARIANT DELAYS Xianmin Zhang, Xiyue Huang, Zuohua Liu	582
1-0131-10445	THE RESEARCH OF INDIRECT TRANSFER PREDICTION TECHNOLOGY BASED ON INFORMATION FEEDBACK CHEN Qiao, JIANG Lie-hui, DONG Wei-yu, XU Jin-long	587
1-0132-10446	STUDY ON PURIFICATION AND CHARACTERIZATION OF LIPOPROTEIN LIPASE FROM CANDIDA RUGOSA ZHAO Xing-xiu, HE Yi-guo, FANG Chun-yu, DENG Jing	592
1-0133-10448	REGION-BASED COLOR IMAGE SEGMENTATION OF FISHES WITH COMPLEX BACKGROUND IN WATER Peizhe Zhang, Canping Li	596
1-0134-10450	NOVEL DESIGN OF A THREE DEGREES OF FREEDOM HIP EXOSKELETON BASED ON BIOMIMETIC PARALLEL STRUCTURE Min Pan, Dan Zhang, Zhen Gao	601
1-0135-10451	ROTATION INVARIANT TEXTURE CLASSIFICATION WITH DOMINANT ORIENTATION ESTIMATION BASED ON GABOR FILTERS Jiuwen Zhang, Xiaoyun Mai, Xiguang Wu	606
1-0136-10452	EXTENDED STATE FEEDBACK CONTROL FOR ACTIVE POWER FILTER Wang Xiaogang, Shu Hua	610
1-0137-10453	A NEW METHOD OF LOOP PERFORMANCE ANALYSIS HAO Yun-long, ZHAO Rong-cai, HAN Lin, ZHU Jia-feng	615
1-0138-10457	MATHEMATICAL MODELING AND MODAL ANALYSIS ABOUT DOUBLE-CIRCULAR-ARC MODIFIED CYCLOID GEARS BASED ON UG Jianing He, Wei Zhang, Rong Tan, Qiang Li Yong Gao	620

1-0139-10461	A NEW IMAGE ENHANCEMENT ALGORITHM FOR LOW ILLUMINATION ENVIROMENT Yanqin Zhao, Xihui Fu, Zhenchong Wang, Guoliang Fan	625
1-0140-10467	THE EFFECTS OF OVERCONFIDENCE ON THE INDEX OF DISCRIMINATION ABILITY AND THE JUDGMENT CRITERION IN INVESTMENT DECISION AN EXPERIMENT BASED ON SIGNAL DETECTION THEORY Ruxin Wu, Jianbai Huang, Xuehong Zhu	628
1-0141-10472	DECREMENTAL MULTI-OUTPUT LEAST SQUARE SVR LEARNING Wei Zhang, Xianhui Liu, Deming Shi, Weidong Wang	636
1-0142-10474	STRUCTURE DYNAMIC OPTIOMAL STUDY OF THE OILLESS AIR COMPRESSOR MUFFLER Xinxiang Zhou, Suying Hu, Yu Cui, Shujun Guo, Ronglian Tian, Yanling Tang	640
1-0143-10475	CUSTOMIZED PROGRAM PROTECTION FOR A USER CUSTOMIZED DATA PROTECTION FRAMEWORK Kenichi Takahashi, Takanori Matsuzaki, Tsunenori Mine and Kouichi Sakurai	643
1-0144-10478	RESEARCH ON TCPW IMPROVEMENT IN HYBRID NETWORK MENG Xiao-jing, LIU Jin, WANG Li-li	650
1-0145-10479	CROSS-CORRELATION PROPERTIES OF SOME PERFECT BINARY SEQUENCES Jinfeng Chong, Zepeng Zhuo	654
1-0146-10480	RANGE IMAGE RECOGNITION BASED ON BAYESIAN DECISION RULE Yu Zhang, Liting Wu, Lubin Weng, Yuan Tian, Yiping Yang	658
1-0147-10485	PARALLELROWOPERATIONALGORITHMFORBANDEDLINEARSYSTEMSZhijian Duan Yong Yang, Xinrong Ma	662
1-0148-10486	FAST ADAPTIVE OPTIMAL BASIS SEARCH ALGORITHM FOR PAPR REDUCTION Li Jiao-jun, Li Heng, Su Li-yun	666
1-0149-10493	OPTIMIZINGAREAUNDERTHEROCCURVEUSINGGENETICALGORITHMYang Zhi, Guo-en Xia, Wei-dong Jin	672
1-0150-10494	A NEW DATA FUSION ROUTING ALGORITHM FOR WIRELESS SENSOR NETWORKS Xinbing Yao, Xiangdong Wang, Shujiang Li	676
1-0151-10499	COTTON TOP FEATURE IDENTIFICATION BASED ON MACHINE VISION& IMAGE PROCESSING Weixin Wang, Duanyang Ou, Benxue Ma, Yage Wang	681

1-0152-10503	MANEUVERING TRACKER WITH ADAPTIVE PARAMETER MODEL FOR MANEUVERING TRACKING Ming Lei, Christophe Baehr	080
1-0153-10506	DEVELOPMENTOFAUTOMATIONPATHSELECTIONSYSTEMFORVEHICLEYunfeng Lou, Xin Zhao, Harutoshi Ogai	693
1-0154-10510	ROLL CHARACTERISTIC ANALYSIS OF DUMP TRUCK UNLOADING BASED ON VIRTUAL PROTOTYPING Rongchao Jiang, Dawei Liu and Huanming Chen, Zhengguo Gao	697
1-0155-10511	SOLVING COMPLEX CHEMICAL EQUATION ROOT BASED ON IMPROVED EVOLUTION STRATEGY Guo De-long, Yang Nan, Zhou Yong-quan	701
1-0156-10514	OPTIMIZATION OF PID PARAMETERS FOR COAL GAS MONITORED CONTROL SYSTEM BASED ON ARTIFICIAL IMMUNE ALGORITHM Ma Xian-Min, Wen Chen	705
1-0157-10517	A NEW WIDEBAND DOPPLER FILTER BANK ARCHITECTURE FOR SYNTHETIC RANGE PROFILE Wei Peng, Guozhu He, Bin Tang, Hongang Wu	709
1-0158-10520	ADAPTIVE STATISTIC PROCESS MONITORING WITH A MODIFIED PCA Liu Yiqi, Huang Daoping, Li Yan	713
1-0159-10522	A NEW MODEL TO IMPROVE CREDIT RATING UNDER INCIDENCE RELATION Fei Xue , Xin Zhao, Bingwu Liu, Shaohua Tan	717
1-0160-10523	THE INFLUENCE OF CONDUCTIVITY PERTURBATIONS ON MIT SENSITIVITY FIELD Yuyan Chen, Xu Wang, Dan Yang, Yi Lv, Yuyan Chen	722
1-0161-10526	CRYPTANALYSIS OF EFFICIENT THRESHOLD PROXY SIGNATURE PROTOCOL FOR MOBILE AGENTS Xiao-Qiu Cai, Shu-Yu Wang	726
1-0162-10528	A NEW SUPPRESSER FOR IMPULSE NOISE BASED ON ADAPTIVE GROWTH Wangsheng Yu, Zhiqiang Hou, Jianjun Song	729
1-0163-11520	ANALYSIS AND DESIGN OF BTT AUTOPILOT WITH STABLE YAW RATE Wang Lei , Di Jing-yu ,Guo Tao	734

2011 IEEE International Conference on Computer Science and Automation Engineering

(CSAE 2011)

Shanghai, China 10-12 June 2011

Volume 2 Pages 1-782



IEEE Catalog Number: ISBN:

CFP1138L-PRT 978-1-4244-8727-1

	TABLE OF CONTENTS VOL0	2
2-0001-10529	A QUASI-LOCAL ALGORITHM FOR CHECKING BISIMILARITY Wenjie Du, Yuxin Deng	1
2-0002-10534	FUZZY PREDICTIVE R2R CONTROL TO CMP PROCESS Liang Wang, Jingtao HU	6
2-0003-10536	AN ADAPTIVE FINITE ELEMENT MESH GENERATION ALGORITHM FOR MICROSTRUCTURE OF COMPOSITE MATERIALS Ma Chang-bing, Qiang Hong-fu	11
2-0004-10537	IMAGEANALYSISBASEDONFRACTIONALBROWNIANMOTIONDIMENSIONYang Yancong, Peng Ruidong	15
2-0005-10541	TOPOLOGICAL ALGORITHM FOR LINEAR MULTI-PORT NETWORK FUNCTIONS DETERMINATION Horia Andrei, Oana Marin, Fanica Spinei, Cosin Cepisca, Paul C. Andrei	20
2-0006-10542	METRICS-BASED ANALYSIS OF THREAD BEHAVIOR USING AN ASPECT-ORIENTED PROGRAMMING APPROACH Oral Alan, Nadia Erdoğan	25
2-0007-10543	A HIERARCHICAL SOURCE ADDRESS VALIDATION TECHNIQUE BASED ON CRYPTOGRAPHICALLY GENERATED ADDRESS Pengxu Tan, Yue Chen, Hongyong Jia, Jiangdong Mao	33
2-0008-10546	AUTOMATIC GENERATION OF TEST DATA FOR PATH TESTING BY ADAPTIVE GENETIC SIMULATED ANNEALING ALGORITHM Bo Zhang, Chen Wang	38
2-0009-10548	UNDERSTANDING TABLETOP COLLABORATIVE INTERACTION USING HIERARCHY MODEL Zhang Guohua, Heng Xiang'an, Lao Songyang, Yan Houyi	43
2-0010-10549	SENSOR SITUATION BASED ON THE MULTIPLE LINEAR REGRESSION FORECAST Jiange Zhang, Yingying Li, Jing Cao	47
2-0011-10550	INFRARED FACE RECOGNITION BASED ON COMPRESSIVE SENSING AND PCA Zhang Lin, Zhang Wenrui, Sun Li, Fang Zhijun	51
2-0012-10552	ADAPTATION OF CANADIAN FOREST FIRE WEATHER INDEX SYSTEM AND IT'S APPLICATION Guang Yang, Xueying Di	55
2-0013-10555	AN ALGORITHM FOR THE CONSTRUCTION OF M-BAND SYMMETRIC ORTHOGONAL MULTI-BAND WAVELETS Su Juan, Dong Xinhan, Quan Hongyue	59

2-0014-10556	LINE SIMPLIFICATION ALGORITHM IMPLEMENTATION AND ERROR ANALYSIS LIU Yan-hua, CHEN Wei-qing	64
2-0015-10559	DESIGNING AND IMPLEMENTING A WI-FI ENABLED MOBILE ROBOT Lenin Gopal, Andrew Wong Wei Loong	69
2-0016-10562	OPTIMIZATION FOR DISCRETE BALANCE WEIGHTS BASED ON HYBRID GENETIC ALGORITHM YANG Xun, ZHANG Can	76
2-0017-10565	A HIGH-TAMPER LOCALIZATION CAPABILITY OF IMAGE AUTHENTICATION ALGORITHM Liu Yang, Mei Liang, Liu Quan, Jiang Xuemei	80
2-0018-10566	FAULT DETECTION ALGORITHM OF INVERTER BASED ON SINGULAR VALUE DECOMPOSITION NONLINEAR FILTERING Chen Peng, Zhao ying, Dong Enzeng, Li Xin	85
2-0019-10568	RESEARCH OF EFFICIENCY OPTIMIZATION CONTROL OF INDUCTION MOTORS BASED EMD-EKF Chen Peng, Li Lian, Dong Enzeng, Li Xin	90
2-0020-10570	AN IMPROVED CONCURRENCY CONTROL METHOD FOR R/W TRANSACTION $ Xin\ Li $	95
2-0021-10571	FAST CAPSULE IMAGE SEGMENTATION BASED ON LINEAR REGION GROWING Zhu Zhengtao, Yu Xiongyi, Huang Liuqian, Wu De	99
2-0022-10573	A NEW METHOD RESEARCH OF FUZZY DTC BASED ON FULL-ORDER STATE OBSERVER FOR STATOR FLUX LINKAGE GAO Ya, LIU Weiguo	104
2-0023-10575	DESIGN AND RESEARCH ON AIRFLOW SYSTEM OF CLOSED-TYPE COTTON PICKER Wang Weixin, Liu Keyi, Ye Wei, Wang Yage, Ding Zhingfeng, Ma Qingliang	109
2-0024-10580	GEO AND TEMPORAL INTENT DISCOVERY OF WEB SEARCH Dan Yang, Linlin Li	113
2-0025-10581	A PREDICTION-BASED ENERGY-CONSERVING APPROXIMATE STORAGE AND QUERY PROCESSING SCHEMA IN OBJECT-TRACKING SENSOR NETWORKS XIE Yi, XIAO Weidong, TANG Daquan, TANG Jiuyang, TANG Guoming	117
2-0026-10585	THE RECONSTRUCTION OF GENE REGULATORY NETWORK BASED ON MULTI-AGENT SYSTEM BY FUSING MULTIPLE DATA SOURCES Tao Yang, Ying-Fei Sun	126

2-0027-10586	DETERMINATING THE CENTER OF THE ELLIPSES BASE ON EXTRACTING EDGES WITH SUBPIXEL ACCURACY Tian Ye, Lu Dunmin	131
2-0028-10588	ANALYTICAL EXPRESSION OF T-VC DEPENDENCE IN STANDARD ISO 3685 FOR SINTERED CARBIDE Anton Panda, Ján Duplák, Jozef Jurko	135
2-0029-10589	NLSSVM: LEAST SQUARE SUPPORT VECTOR MACHINE BASED ON NEWTON OPTIMIZATION XIONG Fu-Song	140
2-0030-10590	DESIGN OF GENERAL AUTOMATIC TEST SYSTEM FOR AIRBORNE RADIO EQUIPMENT BASED ON HYBRID BUS ARCHITECTURE Cao Naisen, Sun Yawei	145
2-0031-10591	AN IMPROVED QUANTUM GENETIC ALGORITHM FOR TEST SUITE REDUCTION Yi-ku ZHANG, Ji-ceng LIU, Ying-an CUI, Xin-hong HEI, Ming-hui ZHANG	149
2-0032-10594	FUZZY PID CONTROL FOR BOOM ENERGY RECOVERY ON HYBRID HYDRAULIC EXCAVATOR Xin Dai, Chengning Zhang, Siguang Li	154
2-0033-10598	ANALYZING TWO CONNECTIVITIES IN UAV-GROUND MOBILE AD HOC NETWORKS Zanxin Xu, Jinhai Huo, Yue Wang, Jian Yuan, Xiuming Shan, Zhenming Feng	158
2-0034-10600	SIMULATION OF CROWD BEHAVIORS BASED ON EVENT REACTION Libo Sun, Wenhu Qin	163
2-0035-10604	DEVELOPMENT OF DIAGNOSIS SYSTEM FOR HV MOTOR INSULATION BASED ON MULTI-PARAMETER FUSION Jiancheng Song, Jingyu Mu, Bingni Qu	168
2-0036-10605	MODELING AND ANALYSIS OF GRINDING FORCE IN SURFACE GRINDING Heran Yang, Lei Zhang, Daqi Li, Tongzhan Li	175
2-0037-10608	THE USE OF VLSI TO GENERATE VISION IN BLIND PEOPLE USING A SUITABLE NEUROPROSTHESIS IMPLANT OF BIOMEMS IN BRAIN Suraj.H, BhavyaBhushan Yadav.A.V	179
2-0038-10612	A NEW SCHEME TO SYNCHRONIZATION OF THE FRACTIONAL-ORDER CHAOTIC SYSTEMS AND SIMULATION Sun fengyun, Li qin	184
2-0039-10614	A PETRI-NET MODEL OF NETWORK SECURITY TESTING Jun-long YAN M, Ming-xin HE, Tie-yuan LI	188
2-0040-10615	OPTIMAL SCANNING STRATEGY FOR VEHICULAR WI-FI Chunlei Liu, Jin Wang	193

2-0041-10616	IMPROVED RANDOM WALK ALGORITHM FOR POWER SUPPLY NOISE ANALYSIS Guo Jun, Cui Jiao, Liu Weiming, Fan xunli	198
2-0042-10617	QDFS: A QUALITY-AWARE DISTRIBUTED FILE STORAGE SERVICE BASED ON HDFS SONG Guang-hua, CHUAI Jun-na, YANG Bo-wei, ZHENG Yao	203
2-0043-10619	STATIC ANALYSIS OF RUN-TIME INTER-THREAD INTERFERENCES IN SHARED CACHE MULTI-CORE ARCHITECTURES BASED ON INSTRUCTION FETCHING TIMING Fangyuan Chen, Dongsong Zhang, Zhiying Wang	208
2-0044-10620	MODELING AND SIMULING POWER ACTIVE FILTER USING METHOD OF GENERALIZED REACTIVE POWER THEORY Marcu Marius, Popescu Florin, Samoila-Brana Liliana	213
2-0045-10621	4H-SIC SOI-MESFET WITH A STEP IN BURIED OXIDE FOR IMPROVING ELECTRICAL PERFORMANCE Hamid Amini Moghadam, Ali A. Orouji, S. E. Jamali Mahabadi	219
2-0046-10623	IMAGE CRYPTOGRAPHY: THE GENETIC ALGORITHM APPROACH Sandeep Bhowmik, Sriyankar Acharyya	223
2-0047-10625	SPATIAL DISTANCE JOIN QUERY ESTIMATION WITHOUT DATA ACCESS Ye Wu, Wei Xiong, Ning Jing, Hongsheng Chen	228
2-0048-10627	DESIGN AND REALIZATION OF THE HIGH ACCURACY ATTITUDE AND ORBIT CONTROL REAL-TIME SIMULATION PLATFORM FOR SPACECRAFT Gao Yudong, Hu Min, Zeng Guoqiang	233
2-0049-10628	A VARIANT BELTRAMI FLOW FOR MULTIPLICATIVE NOISE REMOVAL Fang Li, Ruihua Liu	237
2-0050-10629	STUDY ON DIGITAL COMPREHENSIVE PROTECTION SYSTEM BASED ON DOUBLE CPU FOR UNDERGROUND HIGH-VOLTAGE DISTRIBUTION NETWORKS Liang Yilong, Liu Bin	242
2-0051-10632	MECHANISM AND DYNAMICS OF ACTIVE AND PASSIVE KNEE JOINT OF ABOVE KNEE PROSTHESIS Lu Dunmin, Gao Daoxiang, Tian Ye, Xiao Aiping	246
2-0052-10634	CONSTRUCTION OF INDEPENDENT SPANNING TREES ON TWISTED-CUBES Yan Wang, Jianxi Fan, Yuejuan Han	250
2-0053-10635	IMPROVED RSSI INDOOR LOCATION SYSTEM BASED ON FUZZY ALGORITHM Deng Chen, Fang YiYuan	255

2-0054-10636	RESEARCH OF DYNAMICS OF DC SPEED REGULATOR OF FLYWHEEL DOUBLE CLOSED LOOP BASED ON IMMUNE PRINCIPLE Lifang Xu, Shouda Jiang	259
2-0055-10639	THE SEGMENTATION OF LIVER AND VESSELS IN CT IMAGES USING 3D HIERARCHICAL SEEDED REGION GROWING HUANG Zhan-Peng ,YI Fa-Ling, JIANG Shi-Zhong, Zhao Jie, BAO Su-Su	264
2-0056-10640	A LEARNING-BASED TEXT DETECTION METHOD IN CAMERA IMAGES Kai Chen, Yi Zhou, Chenxuan Li, Li Song, Xiaokang Yang	270
2-0057-10642	COMPUTERSIMULATIONOFTHECHLORINELEAKAGEBASEDONMATLABDehong Zhou	275
2-0058-10643	CONTROL FOR PHYSICAL HUMAN-ROBOT INTERACTION BASED ON ONLINE UPDATE OF DYNAMICS Guanghui Xie, Mina Jin, Deming Wu, Minoru HASHIMOTO	280
2-0059-10644	IDMS: AN INFORMATION DISCOVERY AND MONITORING SYSTEM FOR WEB SERVICES ON GRID Lifeng Dong, Bin Jia, Jianwei Wang, Wen Zhang, Yingjun Xiao	285
2-0060-10647	SOLVING THE CURSE OF DIMENSIONALITY UTILIZING ACTION-DEPENDENT HEURISTIC DYNAMIC PROGRAMMING Zhi-jian Huang, Jie Ma, Zhi-jian Huang	289
2-0061-10648	A COOL PACKAGING TECHNOLOGY FOR POWER CONVERSION APPLICATION Xiao Fu, M Jin	293
2-0062-10649	A SIMULATION METHOD OF CRASHWORTHY TRAIN SET Wenbin Wang, Markus Hecht, Hechao Zhou, Lihui Ren, Honglun Zhao	297
2-0063-10652	THE APPLICATION OF THE ADAPTIVE SLIDING MODE CONTROL WITH AN INTEGRAL-OPERATION SWITCHING SURFACE IN THE PARALLEL ROBOT Guoqin Gao, Wenjuan Xia, Qing Song	302
2-0064-10653	RESEARCH ON P2P ROUTING MODEL BASED ON CLUSTERING AND POSITION OF NODES Ma Hui, Yange Chen	307
2-0065-10655	A REMOTE USABILITY TESTING PLATFORM FOR MOBILE PHONES Huakun Liang, Hongzhi Song, Yi Fu, Xu Cai, Zichao Zhang	312
2-0066-10656	ID-BASED PROXY RE-SIGNCRYPTION SCHEME Wang Huige, Wang Caifen, Cao Hao	317
2-0067-10660	DESIGN AND IMPLEMENTATION OF A CHINESE CHARACTER TEACHING SYSTEM BASED-ON AUGMENTED REALITY INTERACTION TECHNOLOGY	322

	LI Qi-ming, CHEN Yi-min, MA De-yi, HUANG Chen, XU Sheng, LU Ren-miao, LIU Yan, WANG Xi-chen	
2-0068-10664	MODIFIED MVDR ALGORITHM FOR DOA ESTIMATION USING ACOUSTIC VECTOR HYDROPHONE LIANG Guo-long, ZHANG Kai, FU Jin, ZHANG Guang-pu	327
2-0069-10665	THE RESEARCH OF WORKFLOW DYNAMIC FORMS BASED ON XML Yin Xu	331
2-0070-10666	A NOVEL CONFIGURABLE BOUNDARY-SCAN CIRCUIT DESIGN OF SRAM-BASED FPGA Chenguang Guo, Yanlong Zhang, Zhiping Wen, Lei Chen, Xuewu Li, Zengrong Liu, Min Wang	335
2-0071-10667	DISTRIBUTED INTELLIGENT CONTROL SYSTEM OF THE INJECTION MOLDING MACHINE BASED ON ARM CONTROLLER Zhilei Cui, Jine Wang	339
2-0072-10668	THE DESIGNATION OF A T-S FUZZY CONTROLLER BASED SINGLE INPUT Li-li GAO	343
2-0073-10669	FEATURE GRANULARITY FOR CARDIAC DATASETS USING ROUGH SET Noor Suhana Sulaiman, Siti Mariyam Hj Shamsuddin	346
2-0074-10670	THE THEORY OF SELECTING WEIGHT ITERATION BASED ON LS-TLS APPLIED IN ROAD LINE TYPE IDENTIFICATION Weiying, Kang Chuanli	353
2-0075-10671	DESIGN AND SIMULATION OF DDS BASED ON QUARTUS II FANG Yi-yuan CHEN Xue-jun	357
2-0076-10672	THE INFORMATION INTEGRATION SCHEME OF INTELLIGENT SUBSTATION Chen Xue, Xiaoqing Huang, Zhenfu Zhang	361
2-0077-10673	RESEARCH ON BRANCH AND BOUND FOR PEDESTRIAN DETECTION YE Zhi-qin, SU Song-zhi, LI Shao-zi	366
2-0078-10674	TORQUE DISTRIBUTION CONTROL FOR ELECTRIC VEHICLE BASED ON TRACTION FORCE OBSERVER Yinghui Ge, CS Chang	371
2-0079-10675	USE OF A COLD MIRROR SYSTEM FOR CITRUS FRUIT IDENTIFICATION Peilin Li, Sang-Heon Lee, Hung-Yao Hsu	376
2-0080-10676	IDENTITY-BASED AUTHENTICATED KEY AGREEMENT PROTOCOLS IN MULTIPLE PKG ENVIRONMENTS IN THE STANDARD MODEL Juan You, Song Xia Junquan Li	382
2-0081-10677	STUDY ON PATTERN RECOGNITION MODEL BASED ON PRINCIPAL COMPONENT ANALYSIS AND RADIUS BASIS FUNCTION NEURAL NETWORK	388

	Enyong Hu, Hui Wang, Jianhua Wang, Song Lu, Lei Tian	
2-0082-10679	T-ROUGHNESS IN SEMIGROUPS Qimei Xiao	391
2-0083-10681	BASE-UTILIZATION PARTITIONING FOR MULTIPROCESSORS Huang Shujuan, Zhu yi'an	395
2-0084-10682	AN ALGORITHM FOR SELECTING PROGRAMME SLOTS TO BROADCAST ADVERTISEMENTS IN PARALLEL IN DIFFERENT TELEVISION CHANNELS Sumana Bandyopadhyay, Rajat Kumar Pal	399
2-0085-10684	CLOUD COMPUTING AND ITS KEY TECHNIQUES Xu Wang, Beizhan Wang, Jing Huang	404
2-0086-10689	A GENERALIZED ALGORITHM FOR SOLVING N COINS PROBLEM Joydeb Ghosh, Papiya Senmajumdar, Srijoni Maitra, Debasis Dhal, Rajat Kumar Pal	411
2-0087-10690	AN EXACT BOUND ON REGULAR LOOP SUBDIVISION SURFACE Guorong Zhou, Yuhua Zhang, Mingming Shan, Youzhi Wang, Yaohan Zhang, Xiao-Ming Zeng	416
2-0088-10691	NUMERICAL SIMULATION OF ROCK MASS DEFORMATION AND MOVEMENT BY MINING UNDER BUILDING AND ROAD ZHOU Zong-hong, HOU Ke-peng	420
2-0089-10693	LUNAR SOFT LANDING TRAJECTORY OPTIMIZATION BY A CHEBYSHEV PSEUDOSPECTRAL METHOD Zhang Jianhui, PENG Qi-bo	425
2-0090-10694	AN ALGORITHM OF REAL-TIME SOLVING DEADLOCK FOR JOB-SHOP SCHEDULE XU Yu-long, TANG Guoliang, Liu Zhongyong	431
2-0091-10695	A GENERAL COLLABORATIVE EDITING PLATFORM BASED ON FILE LOCKING MECHANISM Hongzhi Song, Yu Qi, Zhaoming Ou, Yueming Hu, Zichao Zhang, Shang Ye	436
2-0092-10696	SILHOUETTE SHAPE AND DETAIL TEXTURE BASED GARMENT STYLE RECOGNITION Suqin QIAN, Lifeng JIANG, Aihua DONG	441
2-0093-10698	RESEARCH ON TIME REGISTRATION ALGORITHMS OF MULTI-SENSOR FUSION SYSTEM Yang Wenjing, Cui Fan, Li Xun, Liu Jianping	446
2-0094-10699	THE RESEARCH AND DESIGN OF A NEW TYPE SMART SOLAR AUTOMATIC CONTROL SYSTEM Rongcun Wang, Xiang Tang, Kaisheng Xu	450
2-0095-10701	DESIGN OF A POSITIVE AND NEGATIVE ELECTRONICALLY TUNABLE RESISTOR WITH LINEAR AND NONLINEAR CHARACTERISTICS Roshanak Alavi Fard, Mohammad Pooyan	456

2-0096-10702	IMAGE INFORMATION HIDING TECHNIQUE BASED ON FREQUENCY HOPPING AND 2D-DWT Zhang Yongping	461
2-0097-10703	IMAGE SEGMENTATION AND MAJOR APPROACHES Qiaowei Li, Shuangyuan Yang, Senxing Zhu	465
2-0098-10707	APPLICATION OF IMPROVED DBD ALGORITHM BASED BP NEURAL NETWORK ON FAULT DIAGNOSIS FOR FUEL SUPPLY SYSTEM IN A CERTAIN DIESEL ENGINE FENG Fuzhou, SI Aiwei, XING Wei	469
2-0099-10708	META-HEURISTIC APPROACHES FOR SOLVING RESOURCE CONSTRAINED PROJECT SCHEDULING PROBLEM: A COMPARATIVE STUDY Partha Pratim Das, Sriyankar Acharyya	474
2-0100-10709	AUTOCORRELATION PERFORMANCE IMPROVEMENT OF KAWAKAMI HYPERCHAOS SEQUENCE BASED ON APAS THEOREM Bin Chen	479
2-0101-10710	RESEARCH ON 2-OUT-OF-2 MULTIPLYING 2 REDUNDANCY SYSTEM USED IN HIGH-SPEED TRAIN Dai Shenghua, Li Yishi	483
2-0102-10715	PARAMETER ADAPTATION SENSORLESS CONTROL OF INDUCTION MOTOR BASED ON STRONG TRACK FILTER Ke Lu, Jian Xiao	487
2-0103-10716	SAT APPROACHES FOR SOLVING THE STAFF TRANSFER PROBLEM Sriyankar Acharyya, Amitava Bagchi	492
2-0104-10718	UD-CACHE: AN EFFICIENT XML CACHE SYSTEM WITH UPWARD-VALIDATION AND DOWNWARD-EVALUATION Bo Zhang, Ziyun Zhuang	497
2-0105-10720	FRACTIONAL ORDER PROPORTIONAL INTEGRAL (FOPI) CONTROLLER DESIGN FOR NETWORK CONGESTION CONTROL Hu Wenkui, Qian Yanping1, Lin Xiangze, Wang Bing	502
2-0106-10721	USING NON-RIGID IMAGE REGISTRATION AND THIN-PLATE SPLINE WARPING FOR LUNG CANCER PROGRESSION ASSESSMENT Dawood M. S. Almasslawi, Ehsanollah Kabir	506
2-0107-10724	AUTOMATIC GENERATION AND VERIFICATION OF INTERLOCKING TABLES BASED ON DOMAIN SPECIFIC LANGUAGE FOR COMPUTER BASED INTERLOCKING SYSTEMS (DSL-CBI) Yan Cao, Tianhua Xu, Tao Tang, Haifeng Wang, Lin Zhao	511
2-0108-10727	IMPROVEMENT OF REAL-TIME PROCESS MONITOR TECHNOLOGY ON LINUX BASED ON MANDATORY RUNNING CONTROL	516

	Wei Li, Long Chen, Hongjiang Ji, Tong Zhang	
2-0109-10728	REGISTRATION WITH LINEAR REGRESSION MODEL IN AUGMENTED REALITY MA De-yi, CHEN Yi-min, LI Qi-ming, HUANG Chen, XU Sheng, ZOU Yi-bo	520
2-0110-10730	CHANNEL ASSIGNMENT FOR MULTICAST IN WIRELESS MESH NETWORKS WITH CONSIDERING FORWARDING WEIGHT AND DISTANCE Jenn-Wei Lin, Shian-Min Lin	524
2-0111-10733	BUILDING VIRTUAL LABORATORY ENVIRONMENT FOR MICROCOMPUTER PRINCIPLE & INTERFACE TECHNOLOGY CURRICULUM Ling Li-jun, Hu Ning-ya	529
2-0112-10734	A FLEXIBLE POLICY-BASED ACCESS CONTROL MODEL FOR WORKFLOW MANAGEMENT SYSTEMS Gang Ma, Kehe Wu, Tong Zhang, Wei Li	533
2-0113-10736	ON SELECTION DEVICE ABOUT INDIRECT-GROUNDED FAULT SYSTEM OF LOW-VOLTAGE NETWORK BASED ON DSP IN MINING SUN Xia	538
2-0114-10737	ASYMPTOTIC STATISTICAL ANALYSIS OF PSEUDO RANDOM NUMBERS Alexandra L. Wang, Zhiguang Xu, Charles J. Kicey	542
2-0115-10738	ADAPTIVE AND COORDINATED POWER MANAGEMENT FOR TARGET TRACKING IN WIRELESS SENSOR NETWORK Feng Juan, Zhao Hongwei	546
2-0116-10739	TRANSITION-BASED TESTABILITY ANALYSIS FOR REACTIVE SYSTEMS NGUYEN Thanh Binh, Michel DELAUNAY, Chantal ROBACH	551
2-0117-10741	A RECURSIVE DESIGN METHOD OF CONTROLLER FOR THE STABILIZATION OF THE TRANSLATIONAL OSCILLATOR WITH A ROTATIONAL ACTUATOR SYSTEM Wang Yiqing, Li Sherj, Chen Qingwei	558
2-0118-10742	BIMATRIX GAMES ON NECESSITY SPACE LI Cun-lin	562
2-0119-10743	THE FAST VITERBI ALGORITHM CACHING PROFILE HIDDEN MARKOV MODELS ON GRAPHIC PROCESSING UNITS Jun Li, Yanhui Li, Shuangping Chen	567
2-0120-10745	OPERATIONALTRANSFORMATIONALGORITHMWITHCONFLICTDETECTIONANDAWARENESSMETHODSFORREAL-TIMECOLLABORATIVE EDITING IN P2P ENVIRONMENTSHongzhi Song, Zhauming Uu, Yi Fu, Xiangxin Lin, Lei Yang	571
2-0121-10750	A NEW CONTOUR TRACING AUTOMATON IN BINARY IMAGE Liu Yan Zhu Min	577

2-0122-10751	EQUIPMENT DESIGNED TO CONTROL A SOLID FUEL HEATING STATION Samoila Brana-Liliana, Marcu Marius, Demian Octavian-Daniel	582
2-0123-10752	OFF-LINE PROGRAMMING AND REMOTE CONTROL FOR A PALLETIZING ROBOT Haixiang Yu, Junfeng Shan, and Xuejun Zhu	586
2-0124-10756	IMPROVING RELIABILITY OF ROUTING IN WIRELESS BODY AREA SENSOR NETWORKS USING GENETIC ALGORITHM S. Hassan pour, B. Asadi, Y. Vejdanparast, P. Zargar	590
2-0125-10759	OVER THE AIR PROVISIONING OF INDUSTRIAL WIRELESS DEVICES USING ELLIPTIC CURVE CRYPTOGRAPHY Deji Chen, Mark Nixon, Thomas Lin, Song Han, Roger Xu, Julia Deng, An Liu	594
2-0126-10762	SENSITIVITY ANALYSIS OF THE HYBRID ELECTRICAL VEHICLE POWER SYSTEM PARAMETERS Zheng Yanping, He Haibo, Xu Xiaomei, Jiang Yuanguang	601
2-0127-10764	ON-CHIP DEBUG ARCHITECTURE FOR MCU-DSP CORE BASED SYSTEM-ON-CHIP Wang Gang, Zhang Shengbing	605
2-0128-10766	DEVELOPMENT OF A WEB BASED FAULT DIAGNOSIS INSTRUMENT SYSTEM Lei Chen, Jie Han, Liya Wang, Wenping Lei, Hong Chen	609
2-0129-10767	A DESIGN METHOD OF GENERAL TRAIN OPERATION CONTROL SYSTEM'S ON-BOARD DMI BASED ON MEEGO Shenghua DAI, Xiaoyong LI	614
2-0130-10768	HLLC RIEMANN SOLVER BASED ON HIGH-ORDER RECONSTRUCTION FOR UNSTEADY INVISCID COMPRESSIBLE FLOWS Li XU Quanjun Wu, Peifen Weng and Baoliang Zhang	618
2-0131-10769	RESEARCH ON KEY TECHNOLOGIES OF FPGA BASED POWER QUALITY MONITORING SYSTEM Wang Liang, Lu Da	623
2-0132-10770	NEW APPROACH TO THE REALIZATION OF PID CONTROLLER PARAMETER STABLE REGIONS Bin Fang, Jianshou Kong	627
2-0133-10771	THE MODIFIED BALANCE METHOD BASED ON PRECESSION DECOMPOSITION Wen-ping Lei, Jie Han, Hong Chen, Xiao-yun Gong	632
2-0134-10772	VISUAL GROUP IDENTIFICATION METHOD OF TECHNICAL COMPETITORS USING LINLOG GRAPH CLUSTERING ALGORITHM HAN Hong-qi, AN Xiaomi, ZHU Donghua, WANG Xuefeng	637

2-0135-10775	AN IMPROVED SEGMENTATION ALGORITHM OF COLOR IMAGE IN COMPLEX BACKGROUND BASED ON GRAPH CUTS Hanyu Hong, Xiangyun Guo, Xiuhua Zhang	642
2-0136-10781	UWB WAVEFORM DESIGN METHOD FOR NARROWBAND INTERFERENCE SUPPRESSION BASED ON RAISED COSINE PULSE Xiaolin SHI	646
2-0137-10785	IMPLEMENTATION OF INTRA PREDICTION IN H.264 BASED ON A NOVEL DESGIN METHODOLOGY Ziyi Hu, Jianhong Peng, Xu Zhang, Lei Zhao, Xin'an Wang	650
2-0138-10786	ASSESSING LUXURY BRANDS AND EWOM USING ONLINE REVIEWS: HOSPITALITY MANAGEMENT ON THE EDGE Wei Yan, María José Álvarez Gil	656
2-0139-10787	EFFICIENT AND SECURE GROUP KEY MANAGEMENT BASED ON EBS AND ATTRIBUTE ENCRYPTION Yanli Chen, Geng Yang	661
2-0140-10790	GLOBAL EDF-BASED ONLINE, ENERGY-EFFICIENT REAL-TIME SCHEDULING IN MULTI-CORE PLATFORM Dongsong Zhang, Fangyuan Chen, Shiyao Jin	666
2-0141-10791	DATA ACQUISITION SYSTEM FOR PNEUMATIC ACTUATOR OF THE TOMATO COLOR SORTER BASED ON VIRTUAL INSTRUMENT Yu Jie, Kan Za, Zhang Ruoyu, Sun Xiaoli, Hu Wanchao, Yin Zhangtao, Liu Yang	671
2-0142-10792	HIGH PERFORMANCE CONTROL OF HYDRAULIC EXCAVATOR BASED ON FUZZY-PI SOFT-SWITCH CONTROLLER Li Bo, Yan Jun, Guo Gang, Zeng Yonghua, Luo Wenxing	676
2-0143-10798	AN INSTRUCTION-LEVEL SOFTWARE SIMULATION APPROACH TO RESISTANCE EVALUATION OF CRYPTOGRAPHIC IMPLEMENTATIONS AGAINST POWER ANALYSIS ATTACKS Jiantang Li, Yongbin Zhou, Jiye Liu, Hailong Zhang	680
2-0144-10801	FAULT DIAGNOSIS ANALYSIS OF MATCHING COMPOSITION NETWORKS Shuming Zhou	687
2-0145-10802	ON MIN-MAX FEASIBLE COOPERATION-BASED DISTRIBUTED MODEL PREDICTIVE CONTROL Guoqi ZHONG, Zhiyuan LIU, Hong CHEN	692
2-0146-10803	USING HIDDEN MARKOV MODEL TO IMPROVE THE ACCURACY OF PUNJABI POS TAGGER Sanjeev Kumar Sharma, Gurpreet Singh Lehal	697
2-0147-10805	EFFICIENT SIMILARITY SEARCH ON MASSIVE GENE DATA BASED ON CLOUD COMPUTING Zhiqiong Wang, Hao Chen, Yalu Huang, Yu Xu, Longwei Yang, Jingjing Xiao	702

2-0148-10806	A KIND OF IMPROVED ATTRIBUTE REDUCTION ALGORITHM IN INTRUSION DETECTION APPLICATION RESEARCH BASED ON ROUGH SETS THEORY Chen Lian, Yang Wenbing	707
2-0149-10809	ROBUST SHEET METAL BEND SEQUENCING METHOD BASED ON A-STAR ALGORITHM Zhang Lichao, Zhou Qiang, Zhang Yi, He Fafu	711
2-0150-10813	A VISUAL NAVIGATION ALGORITHM FOR MOBILE ROBOT IN SEMI-STRUCTURED ENVIRONMENT Yong Zhu, Changguo Sun, Zhixin Han, Chaofa Yu	716
2-0151-10819	VISUAL TRACKING WITH ADAPTIVE LAYERED-OPTIMIZING PARTICLES IN MULTIFEATURE PARTICLE FILTERING FRAMEWORK ZOU Wei-jun, YING Ming-feng, Bo Yu-ming	722
2-0152-10820	RESEARCH FOR NAVIGATION TECHNOLOGY OF UNDERWATER ROBOT BASED ON UKF FEDERATED FILTER Zhang Aijun, Liu Yashu	729
2-0153-10821	INTERNET MARKETING BASED ON ELECTRONIC COMMERCE Li-Fu Hsu	734
2-0154-10822	STUDY ON SATISFACTION EVALUATION OF TEACHING MANAGEMENT SYSTEM IN UNIVERSITIES BASED ON GREY THEORY Chen Tong	738
2-0155-10823	TRANSIENT FLOW OVER GENERIC REAR VIEW MIRROR USING COMPUTATIONAL FLUID DYNAMICS Qiliang Li, Zhigang Yang	742
2-0156-10825	PWISEGEN: GENERATING TEST CASES FOR PAIRWISE TESTING USING GENETIC ALGORITHMS Pedro Flores, Yoonsik Cheon	747
2-0157-10826	BILLET CHARACTERS LOCATION IN THE COMPLEX SCENE Hanyu Hong, Yijun Yang, Xiuhua Zhang	753
2-0158-10827	TENNIS VIDEO SHOT CLASSIFICATION BASED ON SUPPORT VECTOR MACHINE Hui Jiang, Ming Zhang	757
2-0159-10828	AN IMMUNE ALGORITHM FOR DYNAMIC RESOURCE CONFIGURATION OF MACHINERY GROUP INTELLIGENT Ying Tian	762
2-0160-10829	THE DOMAIN DECOMPOSITION METHOD BASED ON WEIGHTED AVERAGE Jianhui Shi, Ying Liu, Wenbo Zhou	766
2-0161-10835	SPATIAL SHAPE PREDICTION OF MULTI-BENDS METAL TUBE BENDING	770

2-0162-10836 HYBRID MULTI-OBJECTIVE OPTIMIZATION WITH PARTICLE SWARM 776 OPTIMIZATION AND EXTREMAL OPTIMIZATION FOR ENGINEERING DESIGN

Chen-Long Yu, Yong-Zai Lu, Jian Chu

2011 IEEE International Conference on Computer Science and Automation Engineering

(CSAE 2011)

Shanghai, China 10-12 June 2011

Volume 3 Pages 1-763



IEEE Catalog Number: 0
ISBN: 9

CFP1138L-PRT 978-1-4244-8727-1

	TABLE OF CONTENTS VOL0	3
3-0001-10837	AN ALGORITHM OF REAL-TIME RENDERING EARTH WITH ATMOSPHERE FROM THE VIEWPOINT NEAR GROUND Liqiang Zhang, Chao Li, Changwen Zheng, Xiaohui Hu, Pin Lv	1
3-0002-10841	USAGE OF ENTERPRISE ARCHITECTURAL FRAMEWORK FOR INFORMATION SECURITY MANAGEMENT IN A HOLOSTIC APPROACH Sanaz Golshan pour Nezami, Reza Azmi	6
3-0003-10842	THE IMPROVED PARAMETER ESTIMATION METHOD BASED ON FRACTIONAL FOURIER TRANSFORM Chunjie Zhang, Lili Ren, Na Li	11
3-0004-10843	MOVING SHADOW DETECTION BASED ON SUSAN ALGORITHM Huang Si-ming, Liu Bing-han, Wang Wei-zhi	16
3-0005-10844	ACCELERATING IMAGE LOCAL INVARIANT FEATURES MATCHING USING CLOUD COMPUTING PLATFORM Han-Bing Yan, Peng Li, Chun-Ge Zhu, Yue-Jin Du, Gang Cui	21
3-0006-10846	STEREOSCOPIC IMAGE TRANSFORMS TO AUTOSTEREOSCOPIC MULTIPLEXED IMAGE Wei-Ming Chen, Chi-Hao Chiou, Sheng-Hao Jhang	26
3-0007-10847	AN IMPROVED STATE ESTIMATOR IN DISTRIBUTION SYSTEMS Hui Li	30
3-0008-10849	LOW ROTATING LOSS 2-POLE RADIAL MAGNETIC BEARING BIASED WITH PERMANENT MAGNET Wang Xi, Fang Jiancheng, Wei Tong, Tang Enqiong, Fan Yahong, Han Bangcheng, Wang Chune	35
3-0009-10850	ACCURACY ANALYSIS OF SCARA INDUSTRIAL ROBOT BASED ON SCREW THEORY Zhao Liang, Su Meng, Diao Changkun	40
3-0010-10867	STUDY OF PREDICTIVE MODELING OF MACHINING SPEED IN CERAMICS GRINDING Jianzhong Li, Rongcheng Shan, Yuhui Zhao, Zuyuan Yu	47
3-0011-10868	RESEARCH ON SELF-SIMILARITY NETWORK GROUP Yaguang Xuan, Shaohua Tao	52
3-0012-10869	A NEW METHOD FOR IMPROVING BREAKDOWN VOLTAGE IN PSOI MOSFETS USING VARIABLE DRIFT REGION DOPING CONCENTRATION S. E. Jamali Mahabadi, Ali A. Orouji, Hamid Amini Moghadam, Parviz Keshavarzi	57
3-0013-10871	A GRAPH BASED ALGORITHM TO MINIMIZE TOTAL WIRE LENGTH IN VLSI CHANNEL ROUTING Swagata Saha Sau, Achira Pal, Tarak N. Mandal, Alak K. Datta, Rajat K. Pal, and Atal Chaudhuri	61

3-0014-10873	INTEGRATED SIMULATION MODELING OF TRANSFER ALIGNMENT WITH AIRBORNE WEAPON Xiaming Yuan Jihong Zhu, Yonggang Wang	66
3-0015-10874	FOREST PRUNING BASED ON TREE-NODE ORDER Huaping Guo, Ming Fan and Yangdong Ye	71
3-0016-10877	BUILDING INFORMATION MODELING AND SIMULATION FOR THE MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS Haiyan Xie, James Michael Tramel, Wei Shi	77
3-0017-10878	A MACHINE VISION BASED NAVIGATION SYSTEM FOR THE BLIND Shang Wenqin, Jiang Wei, Chu Jian	81
3-0018-10879	THE METHODS OF FPGA SOFTWARE VERIFICATION Ding Zheng, Wang Yichen, Zou Xueyi	86
3-0019-10880	RECOGNITION OF MANIPULATED POSTS BASED ON SVM CLASSIFICATION ON BULLETIN BOARD SYSTEM Biao Wang, Qian Gao, Yueqin Liu, Yuhong Guo, Yang Wu	90
3-0020-10881	LARGESCALEPROJECTORGANIZATIONNETWORKANDOPERATIONAL MECHANISMYANG Jing, CHEN Sen, CHEN Yingwu	95
3-0021-10882	CONSISTENT MAP BUILDING BY A MOBILE ROBOT EUIPPED WITH STEREO SENSOR AND LRF Xiuzhi Li, Songmin Jia, Wei Cui, Jinhui Fan, Jinbo Sheng	100
3-0022-10885	DIGITAL LOGIC SIMULATION WITH COMPRESSED BDDS Raimund Ubar, Dmitri Mironov, Sergei Devadze, Jaan Raik, Artur Jutman	105
3-0023-10890	AN IMPROVED SIB ALGORITHM FOR DOCUMENT CLUSTERING USING COMBINATION WEIGHTING MEASURES Bo Ji, Yangdong Ye	110
3-0024-10893	NEW TRAVELLING WAVE SOLUTIONS FOR THE LOLTKA-VOLTERRA DIFFUSION EQUATIONS Jiang Song, Luo Yong	115
3-0025-10894	A VIRTUAL LAB FOR MECHANICAL EXPERIMENT BASED ON VIRTOOLS Yuchuan Chen, Qingni Hu, Hong Shu	119
3-0026-10895	ALIGNING MICRO-GRIPPER TO RING OBJECT IN HIGH PRECISION WITH MICROSCOPE VISION Juan Zhang, Zhengtao Zhang, De Xu, Wensheng Zhang	123
3-0027-10896	A PRIME IMPLICATES-BASED FORMULAE FORGETTING Dai Xu, Zuoquan Lin	128
3-0028-10897	A NEW FRAMEWORK OF M-CHANNELS LIFTING WAVELET FILTER IN IMAGE PROCESSING	133

T .	-71	
I.in	/.ne	enxian

	Lin Zhenxian	
3-0029-10903	A NEW LIVENESS CHARACTERIZATION FOR S3 PGR2 Daniel Y. Chao, Jiun-Ting Chen	137
3-0030-10904	AN AGGREGATION SEARCH ENGINE BASED ON RESTFUL SERVICE AND MASHUP Bing Pan, Kaifa Liang	142
3-0031-10906	RESEARCH ON OBJECT ASSESSMENT FOR MANDARIN PROFICIENCY TEST Chunting Yang, Jing Yu	147
3-0032-10909	A PRIORITY QUEUE-BASED HIERARCHICAL PHOTO CLUSTERING METHOD USING PHOTO TIMESTAMPS Dong-Sung Ryu, Sun-Young Park, KwangHwi Kim, Hwan-Gue Cho	152
3-0033-10910	A FULLY CONFIGURABLE MONITORING SYSTEM ARCHITECTURES BASED ON EMBEDDED WEB SERVER USING AJAX-CGI Shi Daguang, An Baixiu, Cao Jinglong, Xu Jia	157
3-0034-10911	THE NEW DETECTION SYSTEM FOR MISSING BEARING'S ROLLING ELEMENTS IN DOUBLE ROW BALL BEARING XU Qiaoyu, PENG Ping	162
3-0035-10912	AUTOMATIC BACKWARD COMPATIBILITY ANALYSIS OF SOFTWARE COMPONENT BINARY INTERFACES Andrey Ponomarenko, Vladimir Rubanov	167
3-0036-10915	AUDIT REPLICATION IN STOCK TRADING SYSTEM Yinfei Huang, Jianfeng Wu, Bo Wang, Shuo Bai	174
3-0037-10916	A SINGLE NEURON PID CONTROLLER FOR TENSION CONTROL BASED ON RBF NN IDENTIFICATION Wang Yu, Qian Xiao-yao, Zhu Jiang	178
3-0038-10917	A NEW HEAT FLUX COUPLED COMBUSTION MODEL OF SANDWICH PROPELLANT WITH COMPLEX GAS REACTION KINETICS Zhou Zhi-qing, Yang Yue-cheng	183
3-0039-10919	A NOVEL POST-PROCESSING METHOD FOR STREET TEXTS RECOGNITION USING GPS INFORMATION AND STRING ALIGNMENT Seon Yeong Kim, Sung-Hwan Kim, Hwan-Gue Cho	188
3-0040-10922	DESIGN OF AN FPGA-BASED OFDM TRANSCEIVER FOR DVB-T STANDARD Lenin Gopal, Daniel Wong Sing Tze, Nur Zawanah Ishak	193
3-0041-10923	PARALLEL COMPUTING FOR SRM NUMERICAL SIMULATION USING A PARTITIONED METHOD Gao Shuang-wu, Qiang Hong-fu	198
3-0042-10924	A NEW COMBINATION RULE OF D-S THEORY	202

Meng Chen, Xin Xia	

3-0043-10926	AN AUTOMATIC GUI ADJUSTMENT METHOD FOR MOBILE COMPUTING HaiTao Song, HuanYu Liu, Dongyi Chen	206
3-0044-10928	DESIGN AND IMPLEMENTATION OF EMBEDDED NETWORK VIDEO MONITORING TERMINAL Wang Kechao, Ren Xiangmin, Wang Zhifei, Jia Zongfu, Yu Jingwei	211
3-0045-10931	FAILURE MANAGEMENT FOR RELIABLE AUTOMOTIVE START UP PROCESS Suguna Thanagasundram, Mark Amor Segan, Ross McMurran, R. Peter Jones	215
3-0046-10932	POLYNOMIAL PHASE-PORTRAIT REACHABLE SET APPROXIMATION FOR HYBRID AUTOMATA Liu Baoluo, Peng Huiling, Nie Yalin	220
3-0047-10933	LOGIC DATA PARTITION FOR SHARED-STORAGE DATABASE CLUSTER SUI Xin-zheng, CHENG Ren-hong	224
3-0048-10934	DEVELOPMENT AND ERROR COMPENSATION OF A LOW-COST DIGITAL COMPASS FOR MUAV APPLICATIONS Zhang Lijie, Chang Ji	228
3-0049-10936	ACTIVE LEARNING METHOD OF BAYESIAN NETWORKS CLASSIFIER BASED ON COST-SENSITIVE SAMPLING Yanfang Gao, Jiwei Wang	233
3-0050-10938	MULTIPLE TEMPLATE AUTO EXPOSURE CONTROL BASED ON LUMINANCE HISTOGRAM FOR ON-BOARD CAMERA Tao Jiang, KD. Kuhnert, Duong Nguyen, Lars Kuhnert	237
3-0051-10940	DESIGN OF A FUZZY SYSTEM TO CONTROL A SMALL ELECTRIC TRAIN USING MICROCHIP PIC32 WITH THE AID OF MATLAB BLOCKSETS Mostefa Ghassoul	242
3-0052-10941	A PRIVACY-PRESERVING ACCESS CONTROL IN OUTSOURCED STORAGE SERVICES Dai Jiazhu, Luo Shuangyan, Liu Hongxia	247
3-0053-10945	MINING DYNAMICAL FREQUENT ITEMSETS BASED ON ANT COLONY ALGORITHM Chen ShengBing, Wang XiaoFeng, Wang XiaoFang	252
3-0054-10946	BIOINFORMATICS ANALYSIS THE HUB-PROTEINS AND CO-EXPRESSION PROTEINS OF LUNG SQUAMOUS CARCINOMA AND ADENOCARCINOMA BASED ON PROTEIN INTERACTION NETWORK CHEN Qi-long, QIAO Zi-jun, YANG He-jian,NI Teng-feng, CHEN Xiang-yang, CHEN Jian, HU Sheng, ZHE MA Wen-Li	256
3-0055-10947	OPTIMIZED DRIVERS FOR PS/2 AND VGA USING HDL Puni Pokharel Rinod Rhatta Anand D. Darii	262

3-0056-10953	A STUDY OF THE INTEGRATED AUTOMATED EMOTION MUSIC WITH THE MOTION GESTURE SYNTHESIS Huang, Chih-Fang, Luo, Yin-Jyun	267
3-0057-10955	AERODYNAMIC ANALYSIS OF THE FAN-DIFFUSER IN THE AUTOMOTIVE WIND TUNNEL YANG Zhigang, Wei Gan, Li Qiliang	273
3-0058-10956	HIGH SPEED ARCHITECTURE OF ARITHMETIC CODER Kai Liu, Chao Xu	278
3-0059-10957	ACCURATE MOVING OBJECT DETECTION IN THERMAL IMAGERY Yan Zhang, Ting Zhao, Jian Gu, Shengyang Yu	282
3-0060-10958	APPLICATION OF RADIAL BASIS FUNCTION NEURAL NETWORK FOR FISHERY FORECASTING Suja Shakya, Hongchun Yuan, Xinjun Chen, Liming Song	287
3-0061-10967	A STUDY OF FORECAST RISK MANAGEMENT OF SUPPLY CHAIN BASED ON THE MANAGERIALINCENTIVE MODEL OF INFORMATION SHARING Wang Ying, Zhang Tongyao, Li Yan	292
3-0062-10969	ALL FREQUENCY BAND DWT-SVD ROBUST WATERMARKING TECHNIQUE FOR COLOR IMAGES IN YUV COLOR SPACE Kapre Bhagyashri S, Joshi M.Y.	295
3-0063-10971	COMPARATIVE ANALYSIS ON ORTHOGONAL GEOMETRY ELLIPSE FITTING Yizhou HE, Li RAN, Zhenlin SHEN	300
3-0064-10975	SOLVING PARABOLIC EQUATIONS WITH RADIAL BASIS MESHLESS DOMAIN DECOMPOSITION METHOD Qin Xinqiang,Su Pengxiang ,Duan Xianbao,Miao Baoshan	304
3-0065-10977	MOBILE ROBOT BAYESIAN MAP BUILDING BASED ON LASER RANGING AND STEREOVISION Songmin Jia, Wei Cui, Xiuzhi Li, Jinhui Fan1, Jinbo Sheng	308
3-0066-10978	NETWORK SECURITY THREAT ASSESSMENT MODEL BASED ON FUZZY ALGORITHM Fakariah Hani Mohd Ali, Wan Mohd Nadzir Hadzril Wan Ismail	313
3-0067-10982	IMPROVEMENTALGORITHMOFDTWONISOLATED-WORDRECOGNITIONLi Yang, Le Jing, Yang Yuxiang, Wang Jian	319
3-0068-10984	ADAPTIVE AND QUALITY TETRAHEDRAL MESH GENERATION Jun Wang, Zeyun Yu	323
3-0069-10991	NUMERICAL SIMULATION RESEARCH ON HYDRAULIC STEWART PLATFORM MOTION SIMULATOR Hou Jingwei, Zhao Dingxuan, Zhao Ying, Ni Tao	328

3-0070-10993	TIME-VARYING UNCERTAINTIES Pengnian Chen, Mingxuan Sun	332
3-0071-10994	PREDICTIVE DECOUPLING CONTROL FOR VACUUM HEAT TREATMENT FURNACE Xiaobin Li, Naijie Xia, Haiyan Sun, Haibo Wang	337
3-0072-10995	NEW ROBUST CONTROL FOR UNCERTAIN T-S FUZZY SYSTEMS WITH TIME-VARYING STATE AND INPUT DELAYS SONG Jie-Zhu, HUANG Sheng-Juan	343
3-0073-10997	A NEW ALGORITHM BASED ON JOINT DIAGONALIZATION BY THE HOUSEHOLDER TRANSFORMATION FOR CONVOLUTIVE BLIND SEPARATION Wen Yuanyuan, Chen Hao	348
3-0074-10998	A NEW MULTILAYER FEEDFORWARD SMALL-WORLD NEURAL NETWORK WITH ITS PERFORMANCES ON FUNCTION APPROXIMATION Li Xiaohu, Li Xiaoling, Zhang Jinhua, Zhang Yulin, Li Maolin	353
3-0075-11001	DEVELOPMENT OF EDUCATIONAL CAMERA GAMES FOR CHILDREN XIE Fei, CAI Shan, CHENG Ben, CHEN Chao	358
3-0076-11004	MONOTONICALLY DECREASING EIGENVALUE FOR EDGE-SHARPENING DIFFUSION Wenhua Ma	363
3-0077-11006	VIBRATION SUPPRESSION OF A BEAM USING VARIABLE STRUCTURE CONTROL WITH DISTURBANCE OBSERVER Junfeng Hu, Dachang Zhu, Qiang Chen, Qihua Gu	367
3-0078-11008	AN IMPROVED PAINTING-BASED TRANSFER FUNCTION DESIGN APPROACH WITH CUDA-ACCELERATION Deging Qu, Yuetong Luo, Wenmin Tan	372
3-0079-11010	NUMERICAL SIMULATION OF ALUMINUM ALLOY HOT ROLLING USING DEFORM-3D HUANG Chang-qing, DENG Hua, DIAO Jin-peng, HU Xing-hua	378
3-0080-11050	A NEW HYBRID IMAGE SEGMENTATION METHOD FOR FINGERPRINT IDENTIFICATION Zhigen Fei, Junjie Guo	382
3-0081-11053	AN EFFICIENT SIMILARITY MEASURE ALGORITHM OF CHINESE SENTENCE Changying Ning, Rongbo Wang, Zhiqun Chen, Bei Lu	387
3-0082-11055	QUANTITATIVE SAFETY ANALYSIS OF A KIND OF EMBEDDED SOFTWARE Hongpo Wang, Hongjian Zhou, Honglei Wang	391

3-0083-11056	MULTI-CORE MULTI-THREADED PROCESSOR ARCHITECTURE SIMULATOR Lin Deng, Huaihui Li, Yong Dou, Qiang Dou	397
3-0084-11058	THE STUDY OF ELECTRIC POWER CUSTOMER RISK EVALUATION BASED ON ENTROPY METHOD AND MADA Dongxiao Niu, Yimin Liu, Ling Ji, Jinpeng Liu	401
3-0085-11060	A NOVEL INDEX STRUCTURE R*Q-TREE BASED ON LAZY SPLITTING AND CLUSTERING Pan Jin, Quanyou Song	405
3-0086-11062	OPTIMAL CONTROLLER DESIGN FOR REMOTELY LOCATED VIBRATING SYSTEMS: A COMPARATIVE STUDY Nanyan Min, Jiqiang Wang	408
3-0087-11064	A METHOD TO CONSTRUCT A QUASI-NORMAL CONE FOR NON-CONVEX AND NON-SMOOTH SET AND ITS APPLICATIONS Li Hongwei	413
3-0088-11068	A GRADED METHOD FOR REASONING ABOUT N-VALUED RO PROPOSITIONAL LOGIC Qian Lan, Teng Ma	418
3-0089-11070	DEVELOPMENT OF AUTOMATIC LINE-TRACKING INSPECTION DEVICE FOR HIGH VOLTAGE TRANSMISSION LINES BASED ON GROUND CONTROL Sheng-mei LUO, Le TIAN	422
3-0090-11071	A GROUPING PARTICLE SWARM OPTIMIZATION ALGORITHM FOR WEB SERVICE SELECTION BASED ON USER PREFERENCE Shuzhi LI, Ping SHEN, Shuxin YANG	427
3-0091-11072	A GENERALIZED SHARE POTENTIAL FIELDS APPROACH TO MULTI-ROBOT COORDINATION Ruilei ZHANG, Sheng LI, Qingwei Chen	432
3-0092-11075	NONLINEAR BEHAVIORAL MODEL FOR QUADRATURE MODULATORS AND COMPENSATORS Peng Zhan and Kaiyu Qin, Shunyan Cai	437
3-0093-11079	STUDY OF HTHP RHEOMETER PRESSURE CONTROL BASED ON FUZZY SELF-TUNING PID CONTROLLER Jianhua, Rao, Dongmei, Zhou, Xiaokang, Liu	441
3-0094-11080	INTERACTIVE GENETIC ALGORITHMS WITH GREY LEVEL OF INDIVIDUALS FITNESS Guo Guang-song, Wang Yan-fang	445

3-0095-11081	RESEARCH ON DYNAMIC VARIATIONS IN THE GRAVITATIONAL FIELD OF FORTHCOMING VOLCANO ERUPTION Korochentsev V.I., Xue Wei, Rubliov V.P., Lisunov E.V., Ma Weiqun	450
3-0096-11083	THE STUDY ON THE EFFECT OF THE RESISTANCE CHARACTERISTICS OF THE INERTIAL STAGE WITH DIFFERENT BLADE DISTANCES YU Yunliang, WANG Zhongyi, HAN Jia, SUN Tao, SUN Changjiang	453
3-0097-11084	THE DESIGN OF VIOLATION VEHICLE MANAGEMENT SYSTEM BASED ON MAS COOPERATION Cao Haiqing, Yao Zhiying, Deng QingHua, Wang Yu, Yu MingXin,	457
3-0098-11088	DESIGN OF MAGLEV AUTOMATIC TRAIN OPERATION SYSTEM AND RESEARCH ON PREDICTIVE CONTROL ALGORITHM QI Hongfeng, XU Wei	463
3-0099-11089	RESEARCH AND IMPLEMENTATION OF THE MULTIPLE EXIT LOAD BALANCING OF CAMPUS NETWORK BASED ON DNS SERVICE Xiaoqiao Wang, Wei Fu	471
3-0100-11090	REDUCTION OF RESIDUAL NOISE USING DIRECTIONAL MEDIAN FILTER Ching-Ta Lu, Kun-Fu Tseng, Chih-Tsung Chen	475
3-0101-11091	ANALYSIS OF RULE BASED LOOK-AHEAD STRATEGY USING PACMAN TESTBED Rabia Babar Ali, Ali Munir, Ashfaq Hussain Farooqi	480
3-0102-11094	CONSTRUCT THE BIORTHOGONAL BALANCED MULTIWAVELETS BY LIFTING SCHEME Yu Shen, Xieping Gao, Fang Pu, Linlang Liu, Qiying Cao	484
3-0103-11096	IMC-FED PMSM CONTROL SYSTEM BASED ON FUZZY PI Sun Lishan, Pan Xiao, Liu Hongchen	489
3-0104-11097	ANALYZING ALGORITHM FOR MONITORING GREENSWARD IN GOLF COURSE Wenjuan Wang	493
3-0105-11098	A PCNN-BASED METHOD FOR VEHICLE LICENSE LOCALIZATION Wei Zhuo	498
3-0106-11099	THE RESEARCH OF COLLISION DETECTION TECHNOLOGIES BASED ON VEGA Wang Xiao, Li Hujun	502
3-0107-11100	MULTIOBJECTIVE OPTIMIZATION BY ARTIFICIAL FISH SWARM ALGORITHM Mingyan Jiang Kongcun Zhu	506

3-0108-11101	RESEARCH ON ALGORITHM OF CHINESE BBS TOPIC DETECTION BASED ON CONTENT ANALYSIS NIE Zhe	512
3-0109-11102	A NEW MATHEMATICAL MODEL AND USING FINITE DIFFERENCE METHOD TO SIMULATE PIPELINE WATER HAMMER Zhang Shiliang, Meng Zhenhu	517
3-0110-11104	A GRID SYSTEM FOR COMPLEX PROJECT CRISIS MANAGEMENT Wang Aimin	521
3-0111-11105	WIRELESS SIGNAL ARBITRATION SYSTEM BASED ON MICROCONTROLLER CAO Rui	525
3-0112-11108	STUDY ON REMOTE SENSING IMAGE CLASSIFICATION BASED ON ARTIFICIAL IMMUNE SYSTEM QIN Xiaoqian	529
3-0113-11109	WIRELESS SENSOR NETWORK PATH OPTIMIZATION BASED ON PARTICLE SWARM ALGORITHM ZHU Xia, ZHANG Yulin	534
3-0114-11113	INTERACTIVE COLORIZATION BASED ON HYBRID DISTANCE TRANSFORM. Przemyslaw Lagodzinski, Bogdan Smolka	538
3-0115-11116	ANIMATION SYSTEM OF VIRTUAL HUMAN USING MOTION CAPTURE DEVICES Jun Li, Yu Ya	544
3-0116-11118	APPLICATION OF LVDT SENSOR DATA ACQUISITION SYSTEM BASED ON PCI-1716 Jinhui Fan, Songmin Jia, Wei Lu, Zhihong Wang, Xiuzhi Li, Jinbo Sheng	548
3-0117-11120	COMPUTER DESCRIPTION OF CHINESE CHARACTER FORM BASED ON THE MODEL OF TREE TAKING SEAL SCRIPT EXPLAINED IN "SHUOWEN JIEZI" AS EXAMPLE Jiajia Hu, Ning Wang	553
3-0118-11121	METROLOGICAL METHODS FOR VIRTUAL INSTRUMENT Xi Wenjun, Feng Yuguang, Qin Liang and Yao Yunfeng	558
3-0119-11122	A CONTROL SYSTEM FOR PITCH ATTITUDE CONTROL INVESTIGATION OF INSECT INSPIRED MAV Meijun Hu, Xing Yao Yan, Lingjuan Mu	562
3-0120-11123	A FLYING INSECT MODEL FOR WIND TUNNEL EXPERIMENTS Meijun Hu, XingYao Yan, Lingjuan Mu	566
3-0121-11125	SUPER RESOLUTION WITH SIMULTANEOUS DETERMINATION OF REGISTRATION PARAMETER AND REGULARIZATION PARAMETER	569

	wen Chen, Xiangzhong Fang, Yan Cheng	
3-0122-11127	LOCAL DISCONTINUOUS GALERKIN METHODS FOR THE ROSENAU-BURGERS EQUATION Wenting Li, Kun Jiang, Mingchen Yao	574
3-0123-11128	A MODIFIED ALGORITHM FOR LAGRANGIAN MULTI-CLASS SUPPORT VECTOR MACHINE YUAN Yuping, AN Zenglong	578
3-0124-11129	INFORMATION FLOW MODEL OF THIRD-PARTY LOGISTICS BASED ON INTERNET OF THINGS Xiaohui Liu, Youwang Sun	582
3-0125-11131	DESCRIPTION OF WEB SERVICE COMPOSITION MODEL BASED ON Z NOTATION Fangfang Liu, Chengling Li, Jie Yu	587
3-0126-11132	PRECISE POINT POSITIONING STUDY TO USE DIFFERENT IGS PRECISE EPHEMERIS Fumin Lu, Jin Li	592
3-0127-11137	A PROCESS MODEL ORIENTED TO SYSTEM SERVICE Xin Li	596
3-0128-11138	DESIGN AND ANALYSIS OF A PARALLEL ARCHITECTURE FOR DISTRIBUTED RADAR SIMULATION Wang Lei, Lu Xianliang, Chen Mingyan	601
3-0129-11140	IMPLEMENTATION OF GENERAL CORDIC IP CORE BASED ON FPGA Zhang Juntao, Ma Wenbo	606
3-0130-11142	A NOVEL APPROACH OF TERRAIN CLASSIFICATION FOR OUTDOOR AUTOMOBILE NAVIGATION D-V. Nguyen, L. Kuhnert, T. Jiang, K-D Kuhnert	609
3-0131-11147	GUARANTEED SEAMLESS TRANSMISSION TECHNIQUE FO NGEO SATELLITE NETWORKS Lu Wang, Lixiang Liu, Xiaohui Hu	617
3-0132-11148	OPTIMAL SLIDING MODE DESIGN FOR NONLINEAR DISCRETE-TIME SYSTEMS DONG Rui, SHI Dong-wei	622
3-0133-11149	AUTOHMI: A MODEL DRIVEN SOFTWARE ENGINEERING APPROACH FOR HMIS IN PROCESS INDUSTRIES Leon Urbas, Falk Doherr	627
3-0134-11151	A SCHEDULABILITY ANALYSIS OF AN INDUSTRY ETHERNET RING NETWORK Zhang Yu-Hui, LiDi	632

3-0135-11133	FOR CHINESE-KOREAN SPOKEN LANGUAGE IDENTIFICATION LU Shi-Dan, CUI Rong-Yi	038
3-0136-11154	AERODYNAMIC DESIGN OPTIMIZATION OF RACE CAR REAR WING YANG Zhigang, GU Wenjun, LI Qiliang	642
3-0137-11155	PIDCONTROLLERPARAMETERSTUNINGOFMAINSTEAMTEMPERATURE BASED ON CHAOTIC PARTICLE SWARM OPTIMIZATIONZhou Keliang, Qin Jieqiong	647
3-0138-11156	A SCHEME OF MAC/PHY CROSS-LAYER DESIGN IN MIMO AD HOC NETWORKS BASED ON RANDOM NUMBER ALLOCATION STRATEGY Fei Ji, Weishan Lu, Xiaocheng Deng	651
3-0139-11157	RESIDUAL VIBRATION SUPPRESSION OF FLEXIBLE SPACECRAFT VIA OPTIMAL ARBITRARY TIME-DELAY FILTER COMBINED WITH ADAPTIVE CONTROLLER Jing Ma, Zhorgyi Chu	655
3-0140-11159	BUILDING COGNITIVE MODEL OF INTELLIGENT AGENT IN VIRTUAL GEOGRAPHICAL ENVIRONMENT Litao Han, Qiaoli Kong, Bing Liu, Zhiqiang Li	660
3-0141-11164	PRIVACY PRESERVING RESEARCH FOR RE-PUBLICATION MULTIPLE SENSITIVE ATTRIBUTES IN DATA Xiaolin Zhang, Lifeng Zhang	665
3-0142-11165	AN ITERATIVE APPROACH FOR HYBRIA PIPELINE SCHEDULING UNDER THROUGHPUT AND RESOURCE CONSTRAINTS Feng Xu, Dan Li, Yuanyuan Wang	668
3-0143-11166	APPLICATION OF FUZZY NEURAL NETWORK IN THE SPEED CONTROL SYSTEM OF INDUCTION MOTOR Li Yi, Pu Yonghong	673
3-0144-11167	AN IMPROVED METHOD OF IMAGE EDGE DETECTION BASED ON WAVELET TRANSFORM Yang Hao, Li Changshun, Pei Lei	678
3-0145-11169	DESIGN OF OIL TRANSPORT PIPELINE ELECTROMAGNETIC DIRT-REMOVER & DIRT-PROOF APPARATUS Xiedong Cao, Shiyong Cao, Haiyang Qin, Jie Li, Weibin Tan, Jinqiu Zhang	682
3-0146-11171	A NEW CERTIFICATELESS AUTHENTICATED TWO-PARTY KEY AGREEMENT YuXiu-Ying, ZhangWen-Fang, HeDa-Ke	686
3-0147-11172	SELF-CALIBRATION FOR A WELDING ROBOT BASED ON KINEMATICS AND MATLAB SOFTWARE Lu Dunmin, Gao Daoxiang, Tian Ye, Xiao Aiping	691

3-0148-11173	A METHOD FOR 3D RECONSTRUCTION BASED ON FEATURE POINTSON SURFACE OF OBJECT Guoqiang Ren, Yong Zhang, Tingting Hu, Yanfang Yin	695
3-0149-11174	ENSEMBLE CLASSIFIERS FOR DYNAMIC SIGNATURE AUTHENTICATION Nora Al-Muhanna, Souham Meshoul	700
3-0150-11181	COORDINATINGPOWERANDPERFORMANCEINVIRTUALIZEDENVIRONMENTSINVIRTUALIZEDZheyuan Liu, Dejun Hu	705
3-0151-11182	ADAPTIVE FUZZY CONTROL FOR A CLASS OF NONLINEAR SYSTEMS WITH ADAPTATION COMPENSATOR Shi Wuxi	710
3-0152-11183	RESEARCH OF LOW-DIMENSIONAL QUANTUM STRUCTURE OF THE SENSOR DETECTION SYSTEM Wenquan Gu, Chang Huang	714
3-0153-11184	A MODEL OF MOBILE LEARNING OBJECT DESIGN FOR CONCEPT COMPREHENSION USING RECIPROCAL TEACHING STRATEGIES AND AUGMENTED REALITY Dayang Noorasura, A. T., Sazilah S.	717
3-0154-11185	DESIGN OF THE TICKETING SERVICE PLATFORM FOR OLYMPIC GAMES <i>He xinhua, Jin guozhu, Wang qiong</i>	721
3-0155-11186	SCHEDULING FOR COMPLEX MANUFACTURING PROCESSES BASED ON MULTI-AGENT SYSTEM Zhengcai Cao, Jijie Deng, Qidi Wu	726
3-0156-11188	NEW PASSIVITY RESULT FOR DISCRETE-TIME STOCHASTIC NEURAL NETWORKS WITH TIME-VARYING DELAYS Zhenjiang Zhao, Qiankun Song	731
3-0157-11193	A STUDY ON SEVERAL FEATURE SELECTION METHODS IN TARGET CLASSIFICATION AND RECOGNITION Peng Yuan	736
3-0158-11194	FLOW CHARACTERISTICS IN LABYRINTH GLANDS WITH STRAIGHT TEETH SUN Tao, ZHANG Yi, SUN Haiou, WANG Zhongyi	740
3-0159-11195	A SOFTWARE HAZARD ANALYSIS METHOD FOR AUTOMOTIVE CONTROL SYSTEM Wenjun Li, Hongkun Zhang	744
3-0160-11196	AN ADAPTIVE GENETIC ALGORITHM FOR FACILITY LAYOUT PROBLEM IN CYLINDER BLOCK LINE Liyun XU, Shouyin YANG, Aiping LI, Andrea Matta	749

3-0161-11197	CONTROL MODEL FOR LOADING SYSTEMS USING HIGHER ORDER	754
	SINGULAR VALUE DECOMPOSITION	
	Gabriella Orbán, Péter Várlaki, András Rövid	

3-0162-11198 AN ALGORITHM FOR REMOVAL OF EXTRANEOUS IMPLICIT 759 POLYNOMIAL CURVE

Wu Gang, Wang Yunyun

2011 IEEE International Conference on Computer Science and Automation Engineering

(CSAE 2011)

Shanghai, China 10-12 June 2011

Volume 4 Pages 1-763



IEEE Catalog Number: ISBN:

CFP1138L-PRT 978-1-4244-8727-1

	TABLE OF CONTENTS VOL) 4
4-0001-11200	CONTROL STUDY OF RARE EARTH PERMANENT BRUSHLESS DC MOTOR IN CITY RAIL Wei Min, Wei Juan	1
4-0002-11201	DESIGN AND ANALYSIS ON PRACTICAL AUTOMOBILE PARAMETERS RECORDING SYSTEM Wei Min, Wei Juan	4
4-0003-11202	A STUDY OF OPEN FRAME OF DISCERNMENT TO THE SAFETY OF BULK CHEMICAL TANKERS YuBin, Jin Yong Xing, ZhengBin, Zhang Xiao Dong	7
4-0004-11203	ROUTH-PADÉ APPROXIMANTS OF TWO-DIMENSIONAL SEPARABLE-DENOMINATOR CONTINUOUS-TIME SYSTEMS Shailendra Kumar Mittal, Dinesh Chandra, N.L. Prajapati	11
4-0005-11204	VOLUME CONSTRUCTION FROM SURFACE MODEL BASE ON SPATIAL TOPOLOGY Jigang Li, Yanbo Liang, Xianhai Meng, Qin Yang	16
4-0006-11205	PREPROCESSING FOR SOLID RECONSTRUCTION FROM ENGINEERING DRAWING Shao-Ping Jiang, Zi-Gang Fu	21
4-0007-11206	EMPLOYING TOPIC MODELING FOR STATISTICAL MACHINE TRANSLATION Gong Zhengxian, Zhou Guodong	24
4-0008-11207	IMPLEMENTATION OF MULTI-CHANNEL FUZZY-PID CONTROLLER BASED ON FPGA Zhang Juntao, Gao Mingxing	29
4-0009-11208	FASTER AFFINE INVARIANT POINT PATTERN MATCHING USING GRAPHICAL MODELS Feiyue He, Zheng Tian, Xingshi He, Lijuan Yang, Chunyan Chai	32
4-0010-11209	CIRCUIT DESIGN OF A LOSS OF SIGNAL FOR FOUR-CHANNEL PARALLEL 5GBPS/CH OPTICAL RECEIVER Feiyan Qin, Guoqing Xu, Huiyun Li, Yuanjun Liang	37
4-0011-11210	THE BEES ALGORITHM FOR A PRACTICAL UNIVERSITY TIMETABLING PROBLEM IN VIETNAM Nguyen Tan Tran Minh Khang, Nguyen Ba Phuc, Tran Thi Hue Nuong	42
4-0012-11211	THE BDD-BASED ASSESSMENT METHOD OF PROJECT SAFETY RISK Liqiong Yang, Shirong Li, Yufeng Xiao	48
4-0013-11212	DESIGN OF AUTOPILOT WITH POLE PLACEMENT AND STATE-OBSERVER FEEDBACK	53

	Wang Lei, Meng Xiu-yun, Xia Qun-li, Guo-Tao	
4-0014-11214	DESIGN OF PULSE COMBUSTION CONTROL SYSTEM BASED ON FUZZY CONTROL FOR OXYGEN-ENRICHED CERAMIC KILN Zhong Jianwei, Lang Jianxun	57
4-0015-11215	ARCHITECTURE DESIGN OF IT EDUCATION PLATFORM BASED ON WEB MINING LIU Shengjian, WU Xiaoning	61
4-0016-11216	NESTED MULTIPARTITE SECRET SHARING Kerem Kaskaloglu, Ferruh Ozbudak	66
4-0017-11217	DESIGNING SPACECRAFT TT&C SIMULATION SYSTEM BASED ON HLA SUN Hai-zhong, ZHAO Yu-shan, LI Ya-jing, QIU Meng-yue, LIU Shu-juan, LIU Sheng-peng	74
4-0018-11218	RISK BOUND OF PRIORITY ORDERED NEURAL NETWORK WITH MULTI-WEIGHTED NEURONS Shi-jiao ZHU, Jun YANG	79
4-0019-11219	A ROBUST SIFT FEATURE FOR FAST OFFLINE ARABIC WORDS CLASSIFICATION Mahmoud Khalifa, Yang BingRu, Ammar Mohammed	83
4-0020-11220	NET-CASTING: A NEW INFORMATION SEEKING MODEL FOR AUTOMATED INFORMATION SEEKING PROCESSES Qin Zhu, Lei Lin, Hausi A. Müller	87
4-0021-11221	AUTONOMOUS MOBILE ROBOT SYSTEM CONCEPT BASED ON PSO PATH PLANNER AND VSLAM Abdullah Zawawi MOHAMED, Sang Heon LEE, Hung Yao HSU	92
4-0022-11222	A NEW ONTOLOGY FOR FAULT TOLERANCE IN QOS ENABLED SERVICE ORIENTED SYSTEMS Zahraa M. S. Almasslawi, Dawood M. S. Almasslawi	98
4-0023-11224	SUSPECTED PULMONARY NODULE DETECTION ALGORITHM BASED ON MORPHOLOGY AND GRAY ENTROPY Li Yue, Liu Jie, Meng Lingjun	103
4-0024-11227	HYBRID FUZZY CONTROL FOR SWINGING UP AND STABILIZING OF THE PENDULUM-CART SYSTEM Trihastuti Agustinah, Achmad Jazidie, Mohammad Nuh	109
4-0025-11230	DESIGN OF FPGA-BASED TRAFFIC LIGHT CONTROLLER SYSTEM M.F.M.Sabri, M.H.Husin, W.A.W.Z.Abidin, K.M.Tay, H.M.Basri	114

4-0026-11231	THE TEMPORAL DIFFERENCE METHOD AND THE HIDDEN MARKOV MODEL Wanhyun Cho, Sunworl Kim, Gukdong Ahn	119
4-0027-11233	SINGLE AND MULTI THREADING MRI RECONSTRUCTION BASED ON FFTW 2.X AND INTEL MKL Shouliang Qi, Jie Feng, Ruiling Zhang, Libang Xiao	124
4-0028-11234	AUTOMATIC MESH GENERATION TECHNIQUE FOR LOGARITHMIC SPIRAL CURVED ARCH DAM Yonggang Guo, Longbang Qing, Shan Zheng, Longfei An	128
4-0029-11235	USING SEMANTIC AND STRUCTURAL SIMILARITIES FOR INDEXING AND SEARCHING SCIENTIFIC PAPERS Syed Raza Ali Rizvi, Shawn Xiong Wang	133
4-0030-11237	ANALYSIS OF THE AXIAL DIPOLE ANTENNA PROPAGATION CHARACTERISTICS IN RECTANGULAR TUNNEL SUN Ji-ping, GAO Mei-feng	138
4-0031-11238	THE RELIABILITY-BASED TOPOLOGY OPTIMIZATION DESIGN BY STOCHASTIC PERTURBATION Jingkui Li, Yanli Zhang, Chao Yu and Jianye Guo	142
4-0032-11239	EFFECT OF ON-LOAD TAP CHANGER ON VOLTAGE STABILITY OF POWER SYSTEMS WITH NONLINEAR LOAD Jianyong Li, Yanhong Liu, Lijun Zhang	146
4-0033-11240	ON TANGUT CHARACTERS RECOGNITION BASED ON STROKE DENSITY AND DIRECT IMAGE FEATURES Changqing Liu	150
4-0034-11242	STUDY ON A HYBRID P2P BASED DNS Yiting Song, Keiichi Koyanagi	152
4-0035-11243	STUDY OF FAST SUPER-RESOLUTION RECONSTRUCTION METHOUS Cheng Yan:	156
4-0036-11244	A SPEED-UP AND ROBUST IMAGE REGISTRATION ALGORITHM BASED ON FAST Jichao Jiao, Baojun Zhao, Shasha Wu	160
4-0037-11245	APPLYING DECISION TREE TO PREDICT BANKRUPTCY Elahe zibanezhad, Daryush Foroghi, Amirhassan Monadjemi	165
4-0038-11246	RESEARCH ON FORMALIZATION OF DOMAIN-SPECIFIC METAMODELING LANGUAGE BASED ON FIRST-ORDER LOGIC ★ Tao Jiang, Wen Yun Zheng	170

4-0039-11247	STUDY ON CITRUS FRUIT IMAGE USING FISHER LINEAR DISCRIMINANT ANALYSIS Peilin Li, Sang-Heon Lee, Hung-Yao Hsu	175
4-0040-11249	A HYBRID GENE ALGORITHM FOR BYPRODUCT BLAST FURNACE GAS SCHEDULING IN IRON AND STEEL PRODUCTION $Cantao\ Shi,\ Nivgning\ Wang,\ Tieke\ Li$	181
4-0041-11250	AN INTERACTIVE PLANT PRUNING SYSTEM BASED ON GREENLAB MODEL: IMPLEMENTATION AND CASE STUDY Jing HUA, MengZhen KANG and Philippe de Reffye	185
4-0042-11253	UNBALANCED REPLICATION BY EVALUATING POPULARITY OVER WEB SCALABLE STORAGE Ting-wei Chen, Carlos Madrazo, Takeshi Tsuchiya, Keiichi Koyanagi	189
4-0043-11254	COMPLETEGRAPHSORT: A COMPLETE GRAPH STRUCTURE BASED SORTING ALGORITHM Rajat K. Pal	193
4-0044-11255	5-AXIS CIRCUMFERENCE MILLING'S POLAR PROBLEM AND POLAR INTERPOLATION ALGORITHM Shen Bin, Qi Dangjin, Fan Liuqun, Zhu Zhihao	198
4-0045-11256	DESIGN OF A WIRELESS SENSOR NETWORK NODE BASED ON NRF2401 ZHU Jian-hong, WANG Jun, LIU Di	203
4-0046-11257	EXPERIMENT OF COHERENT SCATTER IMAGING BASED DIGITAL RADIOGRAPHY DEVICE Bo Li, Ke Wang, Jingxin Liu, Taihui Liu	207
4-0047-11259	VISUALIZATION OF THE CURRENT FIELDS IN CAOFEIDIAN SEA AREA BASED ON GIS Cuiping Kuang, Yonghui Huang, Rui Huo, Yi Pan, Maohui Zheng	211
4-0048-11260	STABILITY ANALYSIS OF MAGLEV ELASTIC VEHICLE-GUIDEWAY-COUPLED SYSTEM Yu Tian, Longhua She	215
4-0049-11261	NAMED ENTITY RECOGNITION IN TITLES OF CHINESE VIDEOS FROM THE WEB Quan Qi, Jing Dong	220
4-0050-11262	PROCESS COMPREHENSION FOR INTEROPERABLE CNC MANUFACTURING X. Zhang, A. Nassehi, S. T. Newman	225
4-0051-11263	AN INTERCONNECTION SETTLEMENT SCHEME FOR AREA INTERNET EXCHANGE Yang ruijun, Cheng yan	230

4-0052-11268	PREDICTING NON-CLASSICAL SECRETORY PROTEINS BY USING GENE ONTOLOGY TERMS AND PHYSICOCHEMICAL PROPERTIES Wen-Lin Huang, Chyn Liaw, Shinn-Ying Ho	234
4-0053-11269	SEU READBACK INTERVAL STRATEGY OF SRAM-BASED FPGA FOR SPACE APPLICATION HE Wei, WANG Yueke, XING Kefei, CHEN Li	238
4-0054-11272	SIMULATION ANALYSIS ON THE SHELL OF THERMOBARIO EXPLOSIVE BY LSDYNA Li Tian-gang, Ning Quan-li, Li Jun	242
4-0055-11274	GRID FEATURES BASED VISUAL TRACKING Yi Zhou, Hichem Snoussi, Shibao Zheng	247
4-0056-11275	EFFICIENT APPROACH TO DESIGN REVERSIBLE LOGIC BLOCKS FOR FIELD PROGRAMMABLE GATE ARRAYS Abu Sadat Md. Sayem, Sajib Kumar Mitra	251
4-0057-11276	AN ADAPTIVE CACHE CONSISTENCY STRATEGY IN A DISCONNECTED MOBILE WIRELESS NETWORK Thu Tran Minh Nguyen, Thuy Thi Bich Dong	256
4-0058-11277	ADAPTIVE TRIMMED VECTOR MEDIAN FILTER Bogdan Smolka	261
4-0059-11278	TERM PROXIMITY IN DOCUMENT RETRIEVAL SYSTEMS Behloul Ali, Belloula Abdelkrim, Segaa Mebarek	267
4-0060-11279	ESTABLISHING LARGE-SCALE GENE REGULATORY NETWORKS USING A GENE-KNOWLEDGE-EMBEDDED EVOLUTION COMPUTATION METHOD Li-Sun Shu, Hui-Ling Huang, Shinn-Jang Ho4, and Shinn-Ying Ho	272
4-0061-11280	IMPLEMENTATION OF SYSTEM-LEVEL FAULT DIAGNOSTICS IN VEHICLES ON A GENERIC TEST PLATFORM Bo Wang, Mark Amor-Segan and R. Peter Jones	277
4-0062-11281	AN EFFICIENT SUFFIX-FREE PADDING RULE FOR ITERATED HASH FUNCTIONS Shaolan Zhang, Guobo Xing	282
4-0063-11282	INDUCTION MOTOR POSITION SENSORLESS OBSERVER BASED ON SLIDING MODE VARIABLE STRUCTURE Liu Gang, Yang Lina	286
4-0064-11284	REQUIREMENTS PRIORITIZATION WITH RESPECT TO GEOGRAPHICALLY USTRIBUTED STAKEHOLDERS	290

	Azeem Ahmad, Aamir Shahzad, V. Kumar Padmanabhuni, Ali Mansoor, Sushma Joseph , Zaki Arshad	
4-0065-11285	INTERPRETABLE KNOWLEDGE ACQUISTION FOR PREDICTING DNA-BINDING DOMAINS USING AN EVOLUTIONARY FUZZY CLASSIFIER METHOD Hui-Ling Huang, Fang-Lin Chang, Shinn-Jang Ho, Li-Sun Shu, and Shinn-Ying Ho	295
4-0066-11288	LEARNING SYSTEM FOR STANDING HUMAN DETECTION Boudour Ammar, Nizar Rokbani, Adel M. Alimi	300
4-0067-11313	A MULTI-CHANNEL WATERMARKING SCHEME BASED ON HVS AND DCT-DWT Yi-lin Bei, De-yun Yang, Ming-xia Liu, Li-li Zhu	305
4-0068-11316	SECURE MONITORING SCHEME FOR WIRELESS SENSOR NETWORKS BASED ON IDENTITY SIGNCRYPTION CHEN Zhe, LIANG Yuanning	309
4-0069-11317	CONSENSUS IN MULTI-AGENT WITH TIME-VARYING DELAYS Cao Kecai, Liu Chunxiang, Gao Xiang	313
4-0070-11318	PHYSICALLY-BASED REAL-TIME SIMULATIVE ALGORITHM OF CAR SHELL COLLISION AND DEFORMATION Zhi Dong, Zelin Chen, Shiqiu Liu ,Suifang Guo, Yuntao Ou	318
4-0071-11320	RESEARCH AND APPLICATION ON CLARITY-EVALUATION-MODEL FOR THE CROSS-LINE GRAY-SCALE IMAGE Fei-ming Du	322
4-0072-11321	A NEW INITIALIZING MECHANISM IN PARTICLE SWARM OPTIMIZATION DU Jiyong, ZHANG Fengming, HUANG Guorong, YANG Ji	325
4-0073-11322	ARITHMETIC AND EXPERIMENT RESEARCH ON ULTRASONIC DETECTION OF PARTIAL DISCHARGE FOR SWITCHBOARD Rencheng Zhang, Erli Liu, Li Xie, Jianhong Yang	330
4-0074-11324	ESTER RATE SOFT-SENSOR IN PET PROCESS <i>G ao Lin</i>	335
4-0075-11326	A STUDY OF INDUCTION MOTOR STATOR FLUX OBSERVER BASED ON RADIAL BASIS FUNCTION NETWORK DaoLuZhang, GuoRongLiu	340
4-0076-11331	A DYNAMIC WORKFLOW AUTHORIZATION METHOD BASED ON PARTICIPANT EXPRESSION RULES Da Tang, Jing Guo, Oi Zhang	345

4-0077-11333	A NOVEL REMOTE METER-READING SYSTEM BASED ON VIRTUAL INSTRUMENT Jia Huiqin, Zhang Ru	350
4-0078-11336	AERODYNAMIC INSTABILITY DETECTION IN COMPRESSOR BASED ON HILBERT-HUANG TRANSFORM LI Changzheng, LEI Yong, FU Rao	355
4-0079-11340	STUDY ON PREDICTION OF ROWING ATHLETES' POTENTIAL BASED ON RETARDING INCREASE MODEL Li Guangjun, Du Yunyun	359
4-0080-11341	PRIVATE MATCHING PROTOCOLS WITHOUT ERROR PROBABILITY Lihua Liu, Zhengjun Cao	363
4-0081-11342	THE STUDY OF TRAFFIC ACCIDENT REPRODUCTION SYSTEM Liao Xue-hua, Zhu Zhou-sen, Yan Yu-song, Li Ping	367
4-0082-11345	THE RECONSTRUCTION OF THREE-DIMENSIONAL TREE MODELS FROM TERRESTRIAL LIDAR LIU Hong-wei, ZHANG Xiao-li, WANG shuhan, CHEN li	371
4-0083-11346	THE STUDY OF NONPARAMETER IDENTIFICATION ALGORITHM BASED ON COS-PSEUDORANDOM Li Wenhong, Zhang Xiuhua, Wu lei	375
4-0084-11347	ACTIVE BUFFER MANAGEMENT FOR SENSOR NODE BASED ON SPATIAL CORRELATION Li Xun, Tang Shiqi, Yang Wenjing	379
4-0085-11348	FOURIER TRANSFORM ANALYSIS IN STOCK WAVE THEORY Li qing-feng, Peng wen-feng	384
4-0086-11349	A NEW ALGORITHM FOR CLUSTERING AGGREGATION Li Qing-feng	389
4-0087-11350	THREE-LEVEL FACE FEATURES FOR FACE RECOGNITION BASED ON CENTER-SYMMETRIC LOCAL BINARY PATTERN Changming LIU, Jianyun LU, Lin LI	394
4-0088-11353	A SEMANTIC FUSION BASED MULTIMODAL INTERACTION PANEL FOR VIRTUAL CITY PLANNING Yiyue He, Guohua Geng, Mingquan Zhou, Kang Li, Zhuoming du, Yongmei Zhao	399
4-0089-11354	AN ADAPTIVE GENETIC ALGORITHM FOR THE FLEXIBLE JOB-SHOP SCHEDULING PROBLEM Y. Pan, W.X.Zhang, T.Y. Gao, Q.Y.Ma and D.J.Xue	405
4-0090-11355	DESIGN OF SERIAL COMMUNICATION INTERFACE BASED ON FPGA	410

	PENG Hui-ling, NIE Ya-lin	
4-0091-11359	A BALANCED ENERGY CONSUMPTION SOLUTION FOR WIRELESS SENSOR NETWORKS WITH FAILURE CLUSTERS Wei Wang, Tie Qiu, Lei Wang, Feng Xia, Guowei Wu	415
4-0092-11361	ITWIGSTACK: AN IMPROVED ALGORITHM OF XML TWIG PATTERN MATCHING Shi Jun-feng, Pang Ning	420
4-0093-11364	FAULT MODEL BASED ON H-C MODEL IN THE SYSTEM OF TRACTION POWER SUPPLY HUANG Yuan-liang	426
4-0094-11367	A FULL LIFECYCLE ORIENTED EXAMINATION TRANSACTION MANAGEMENT SYSTEM JingYu Wang, QiuZhong Zhou, WuLiang Peng	431
4-0095-11368	A ROUTING PROTOCOL OF MOBILE ADHOC NETWORKS BASED ON UWB Hua Jiang, Lei Wang, Xianfeng Ai	435
4-0096-11370	GROUPING DELEGATION TASK ALLOCATION MODEL FOR MULTI-ROBOT COLLABORATION SYSTEM Zhiguo Shi , Junming Wei, Zhiliang Wang, Qiao Zhang, Lei Liu	440
4-0097-11371	THE EUR/CNY EXCHANGE RATE FORECAST BASED ON GARCH MODEL Huaijin Gao, Jianan Sun	447
4-0098-11372	REAL-TIME MONITORING SOFTWARE FOR TRAIN TRACTION AND TRANSMISSION SYSTEM Qin-yue Zhu, Tian-shi Wang, Ya-hui Zhao, Zhao-xu Shen, Chun-shen Xu, Guo-qing Wu	451
4-0099-11374	A NORM-RELAXED SQP METHOD OF STRONGLY SUB-FEASIBLE DIRECTION FOR FINELY DISCRETIZED PROBLEMS FROM SEMI-INFINITE PROGRAMMING Qingjuan Xu, Jinbao Jian, Daolan Han	456
4-0100-11375	EXISTENCE OF SOLUTIONS FOR GENERALIZED VECTOR EQUILIBRIUM PROBLEMS ¤ Yali Zhao, Yang Yang	461
4-0101-11376	A STRAIGHT LINE GENERATION ALGORITHM BASED ON LINE PIXELS Li Yan-cui, Hu Jin-yan, Li Shi-yong, Yang Xia	466
4-0102-11377	RESEARCH ON THE TEXT CLUSTERING ALGORITHM BASED ON LATENT SEMANTIC ANALYSIS AND OPTIMIZATION	470

Wang Chun-hong, Nan Li-Li, Ren Yao-Peng

4-0103-11378	A HETEROGENEOUS WIRELESS NETWORK INTERCONNECTION STRATEGY BASED ON IP SWITCHING Linfeng Yuan	474
4-0104-11381	A BIO-INSPIRED KINEMATIC MODEL OF AUV TRACKING CONTROL FOR OCEAN CURRENT Yue Zhao, Daqi Zhu	478
4-0105-11382	DIRECTIONAL-ADAPTIVE-FILTER-BASED IMAGE INTERPOLATION USING COMPRESSED DOMAIN INFORMATION Zhang Rongfu, Cao Fei, Zhou Jinbo	483
4-0106-11383	DIGITAL IMAGE HIDING USING CURVELET TRANSFORM YongHong ZHANG	488
4-0107-11384	THE EXECUTION AND DETECTION OF ARTIFACT-CENTRIC BUSINESS PROCESS Danfeng Zhao, Guohua Liu, Yu Jiang, Feng Gao, Ying Wang	491
4-0108-11386	THE PREFERENCE RELATION AND ITS APPLICATION IN THE INFORMATION SYSTEM Zhao Mingqing	496
4-0109-11388	NOVEL STRIP EAM WITH A RING RESONATOR ON INP/INGAASP-MQW ZHOU Zheng, CAI Chun, SUN Xiao-Han	502
4-0110-11389	INTERNET OF THINGS: KEY TECHNOLOGY, ARCHITECTURE AND CHALLENGING PROBLEMS Handong Zhang, Lin Zhu	507
4-0111-11390	THE DESIGN OF BUS OVERLOAD CONTROL SYSTEM Lili Zhang, Jinyan Hu, Sujun Zhang, Jianfeng Cheng	513
4-0112-11394	THE RATE PROBLEM IN BULK: A GAME THEORETICAL MODEL IN LOGISTICS NETWORK Fengye Wang, Zhiyong Huang, Aifen Feng	517
4-0113-11400	INDUCTION MOTOR CONTROL BASED ON ADAPTIVE INVERSE CONTROL Liu Gang, Yang Lina	521
4-0114-11401	CHAOS SYNCHRONIZATION OF SECURE COMMUNICATION BASED ON ADAPTIVE INVERSE CONTROL Chen Qishuan, Yang Lina	525
4-0115-11402	THE OPTIMIZATION ANALYSIS OF SUPPLY CHAIN RELIABILITY BASED ON ECONOMIC CONSTRAINTS YANG Guang-hua	528

4-0116-11403	TOURISMPLANNINGREVIEWBASEDONAUTHENTICITY-INTEGRITYPRINCIPLE:ACASEFROMCONSERVATIONANDDEVELOPMENTOFLIANYUNOLDQUARTERXiaoyi Li	533
4-0117-11404	A HYBRID ALGORITHM FOR TRAINING ADAPTIVE RIDGELET NEURAL NETWORK Fengli Sun, Mingyi He, Quanhua Gao	538
4-0118-11407	MULTI-POSE FACE RECOGNITION COMBINING TENSOR FACE AND MANIFOLD LEARNING Weiqing Li, Duansheng Chen	543
4-0119-11411	BCEXT-BASED PROXY MOBILE IPV6 EXTENSION: A DATA TRANSMISSION EXTENSION SCHEME FOR MULTI-INTERFACE MOBILE NODES Hu Weiqi, Li Yuhong, Zou Shihong, Cheng Shiduan	548
4-0120-11416	RELAXED NON-STATIONARY MULTISPLITTING TOR METHODS FOR H-MATRICES Hao Li, Yu Fu, Li Tao Zhang	553
4-0121-11418	CMOS PRECISION FULL-WAVE/HALF-WAVE RECTIFIER Athipong Virattiya and Boonying Knobnob, Montree Kumngern	556
4-0122-11419	ELECTRONICALLY TUNABLE VOLTAGE-MODE UNIVERSAL FILTER USING CMOS SIMPLE OTAS Jimlee Sarasri and Boonying Knobnob, Montree Kumngern	560
4-0123-11420	FULLY CMOS PROGRAMMABLE VOLTAGE ADDER/SUBTRACTOR Montree Kumngern	564
4-0124-11421	CURRENT-CONTROLLED CCDDCC WITH CONTROLLED CURRENT GAIN Usa Torteanchai, Montree Kumngern, Kobchai Dejhan	568
4-0125-11423	DESIGN AND IMPLEMENTATION OF A GRAPHICAL PROGRAMMING TOOL FOR CHILDREN Chen Xiajian, Wang Danli, Wang Hongan	572
4-0126-11424	HUMANOIDS THAT CRAWL: COMPARING GAIT PERFORMANCE OF ICUB AND NAO USING A CPG ARCHITECTURE Cai Li, Robert Lowe, Boris Duran and Tom Ziemke	577
4-0127-11428	PROPOSED DECISION SUPPORT IN A DISTURBED ENVIRONMENT USING THE METHOD GIMSI Samia Aitouche, Abdeghfour Kaanit, Kinza MOUSS, Mohamed Djamel Mouss	583

4-0128-11430	SIMPLESCALAR PLATFORM Yang Lu, Yi Liu, He Wang	591
4-0129-11431	RESEARCH OF CRISIS MANAGEMENT SYSTEM BASED ON CG AND GIS Zhan Yongsong, Lo Siuming, Yuen Kwokkit	596
4-0130-11432	THE DESIGN OF REAL-TIME VISUALIZATION SYSTEM BASED ON STK OF SPACE-BASED TELECONTROL AND TELEMETRY SUN Hai-zhong, HE Wei-ping, ZHU Zhuan-min, LIU Tao, ZHAO Hui	600
4-0131-11437	THE DESIGN OF SIGNAL PROCESS CIRCUIT FOR FOUR-LIGHT ACCURACY OPTICAL TARGET Tian Hui, Ni Jin-ping, Lu Hong-wei	605
4-0132-11440	A SEARCH RESULT RANKING ALGORITHM BASED ON WEB PAGES AND TAGS CLUSTERING Chongchong Zhao, Zhiqiang Zhang, Hualong Li, Xiaoqin Xie	609
4-0133-11442	A FAST MULTI-REFERENCE FRAME SELECTION ALGORITHM FOR H.264/AVC Minlian Xiao, Yun Cheng	615
4-0134-11448	ENHANCED CABOSFV CLUSTERING ALGORITHM BASED ON ADAPTIVE THRESHOLD Qin Zhu, guoping Tu,Xuedong Gao, Sen Wu Hua Chen	620
4-0135-11449	A PRAGMATIC APPROACH TO AID VISUALLY IMPAIRED PEOPLE IN READING, VISUALIZING AND UNDERSTANDING TEXTUAL CONTENTS WITH AN AUTOMATIC ELECTRONIC PEN Joshi Kumar.A.V, Visu.A, Mohan Raj.S, Madhan Prabhu. T, Kalaiselvi.V.K.G	623
4-0136-11450	A PLATFORM-SPECIFIC MODELING METHOD FOR PATTERN-BASED COARSE-GRAINED COMPONENT Jindan Feng, Lanshun Nie, Dechen Zhan, Xiaofei Xu	627
4-0137-11453	EFFICIENT ALGORITHM ON VIDEO SHOT SEGMENTATION OF THE ADAPTIVE THRESHOLD CHEN Zhuo-yi, ZHOU Ming-ji, DING Wan-ning	634
4-0138-11454	MULTI-SENSOR IMAGE FUSION BY NSCT-PCNN TRANSFORM Yong Li, Guang-hua Song, Shu-chen Yang	638
4-0139-11456	THE ANALYSIS OF EXPLOSIVE IMAGE CHARACTER BASED ON THE FRACTAL DIMENSION OF GRAY LEVEL IMAGE Dong Yu-cai, Jiang Tian-yuan, Zhang Ling, Lin Min, Shi Hong-tao, Cai Ren-mou	643
4-0140-11458	AN ELECTRONICALLY TUNABLE ACTIVE-C CURRENT-MODE UNIVERSAL FILTER EMPLOYING CCCII AND OTA Xifeng Zhou, Shanshan Li, Jiake Wang	647

4-0141-11459	HIGH SIGNAL-TO-NOISE RATIO GAIN BY STOCHASTIC RESONANCE IN AN UNCONVENTIONAL BISTABLE SYSTEM Pin Wan, Yiju Zhan, Hui Zheng	652
4-0142-11461	CONTROLLING ENGINE IGNITION ADVANCE ANGLE BASED ON THE BP NEURAL NETWORK Li-jie Chen	656
4-0143-11465	ARMA MODEL FOR PREDICTING THE NUMBER OF NEW OUTBREAKS OF NEW CASTLE DISEASE DURING THE MONTH Fangge Li, Peixian Luan	660
4-0144-11466	RESEARCH ON DESIGN OF EXCAVATING FACE BALANCE CONTROL FOR LARGE SLURRY SHIELD SONG Yunpu	664
4-0145-11467	RESEARCH ON SHIELD GESTURE CONTROL BASED ON INVERSE KINEMATICS OF PARALLEL MANIPULATOR SONG Yunpu	669
4-0146-11468	A NOVEL NEIGHBORHOOD STRUCTURE FOR JOB SHOP SCHEDULING Lianghui Zhao	674
4-0147-11469	A BLIND DIGITAL WATERMARKING ALGORITHM BASED ON WAVELET TRANSFORM Zheng Xiong-bo, Zhang Xiao-wei, Sun Ming-jian	679
4-0148-11482	AN IMAGE RETRIEVAL APPROACH WITH RELEVANCE FEEDBACK Ke Chen, Zhiyong Xiong, Xuefeng Xian, Fusheng Yu	683
4-0149-11483	AN ALGORITHM OF IMAGE RETRIEVAL BASED ON CONTENT SIMILARITY Zhiyong Xiong, Ke Chen	688
4-0150-11488	A NOVEL DESCRIPTION OF THE REPRODUCING KERNEL SUPPORT VECTOR MACHINES Li-xiang Xu, Bin Luo, Feng-hai Yu, Jin Xie	692
4-0151-11489	ANALYSIS OF SMART GRID SECURITY STANDARDS Yong Wang, Da Ruan, Dawu Gu, Jason Gao, Daming Liu, Jianping Xu,Fang Chen	697
4-0152-11490	A DELAYED INPUT DFA OPTIMIZED ALGORITHM OF BOUNDING DEFAULT PATH Jin Qu, Rongcai Zhao, Peng Liu, Zishuang Li, Qin Li	702
4-0153-11502	POWER MEASUREMENT AND ANALYSIS OF GSM SIGNAL Huang He, Wang Jun, Xu Zhe, Pan Quan	706
4-0154-11504	OBSTACLE DETECTION ALGORITHMS FOR AVIATION	710

Li Fu,	Songtao Lu	

4-0155-11506	A RELAY-BASED CLUSTERING ALGORITHM FOR HETEROGENEOUS ENERGY WIRELESS SENSOR NETWORKS Yu Fang, Xiaofu Ma, Ming Jiang	715
4-0156-11508	AERONAUTICAL CHANEL MODELING IN FREQUENCY-DOMAIN FOR BLOCK-DATA TRANSMISSION SYSTEMS $Xinle\ Yu,\ Dandan\ Song,\ Zharin Yang$	719
4-0157-11510	A DYNAMIC FLOW MODEL FOR CONSTRAINED DELAY TOLERANT NETWORKS Zhenguo Yang, Liusheng Huang and Mingjun Xiao	724
4-0158-11512	A NEW LINK SCHEDULING ALGORITHM FOR MULTI-RADIO INTERFACES WIRELESS MESH NETWORKS Zhuyan Zhao, Jianhong Mou	728
4-0159-11514	MODELLING AND PERFORMACE ANALYSIS OF MIPV6 ON CNGI Deguang Le, Yufeng Yao, Yong Jin, Miaomiao Zhu	733
4-0160-11516	IDENTIFYING BUFFER OVERFLOW VULNERABILITIES BASED ON BINARY CODE Shunli Ding, Jingbo Yuan	738
4-0161-11518	THE CONTRAST BETWEEN MOTION AND APPEARANCE REPRESENTATION OF STIP IN HUMAN ACTION CLASSIFICATION Hong-Bo Zhang, Shao-Zi Li, Xian-Ming Lin, Bi-Xia Liu	743
4-0162-11519	FAST HOG FEATURE COMPUTATION BASED ON CUDA CHEN Yan-ping, LI Shao-zi, LIN Xian-ming	748
4-0163-11521	DECOUPLING RSEARCH OF MULTI-DEGREE-OF-FREEDOM SYSTEM BASED ON SIMILARITY TRANSFORMATION Pengju Lv, Jie Yuan, Jinghua Lv	752
4-0164-11522	RECENT DEVELOPMENT IN IMAGE COMPLETION TECHNIQUES Chunxiao Liu, Qunsheng Peng, Xun Wang	756
4-0165-11523	THE PRELIMINARY REARCH ON PLANT FAMILY RETRIEVAL SYSTEM OF ANGIOSPERM IN INNER MONGOLIA Wang Shusen, Luo Yuyang, Tan Hu, She Hongyan	761