

# **2012 Spring Congress on Engineering and Technology**

**(S-CET 2012)**

**Xi'an, China  
27 – 30 May 2012**

**Pages 1-527**



**IEEE Catalog Number: CFP1240R-PRT  
ISBN: 978-1-4577-1965-3**

# TABLE OF CONTENTS

<b>THE DESIGN OF RECONFIGURABLE IMU TEST SYSTEM BASE ON CRIO .....</b>	<b>1</b>
<i>Z. Xu, B. Wang, X. Yang, X. Wang</i>	
<b>ON THE DEPLOYMENT OF ROUTING PROTOCOLS IN MANET WITH HIGH MOBILITY .....</b>	<b>5</b>
<i>C. Dong, W. Zhao, X. Luo, W. Bai</i>	
<b>THE APPLICATION OF MACHINE LEARNING METHODS TO INTRUSION DETECTION .....</b>	<b>9</b>
<i>X. Zhang, L. Jia, H. Shi, Z. Tang, X. Wang</i>	
<b>SIMULATION OF ELECTRIC FIELD DISTRIBUTIONS IN WATER TREED XLPE USING FINITE ELEMENT METHOD.....</b>	<b>13</b>
<i>J. Wang, J. Wu, Y. Li, X. Zheng</i>	
<b>A SHORTEST PATH ANALYSIS BASED ON HIERARCHY .....</b>	<b>17</b>
<i>X. Luo, M. Zhang, Z. Zhang</i>	
<b>LMI-BASED CRITERION FOR THE GLOBAL ASYMPTOTIC STABILITY OF TWO DIMENSIONS STATE-SPACE DIGITAL FILTERS .....</b>	<b>21</b>
<i>Y. Yang, W. Hu, R. Cheng</i>	
<b>THE RESEARCH AND EXPLORATION OF WAVELET SIGNAL DENOISING .....</b>	<b>25</b>
<i>W. Zhang</i>	
<b>RETRIEVAL OF THE SEA-SURFACE WIND FIELD FROM SYNTHETIC APERTURE RADAR DATA.....</b>	<b>28</b>
<i>Y. Liu, J. Yuan, W. Wang</i>	
<b>A CROSS-PLATFORM MOBILE PAYMENT SOLUTION BASED ON WEB TECHNOLOGY .....</b>	<b>32</b>
<i>Z. Qiu, L. Luo, J. Luo</i>	
<b>MODELLING FOR SOFTWARE COLLABORATIVE DEVELOPMENT PROCESS.....</b>	<b>36</b>
<i>W. Luo, J. Wang, X. Wu, T. Li, Z. Xie</i>	
<b>USING VARIOUS PULSE DURATIONS AND REFERENCE CELLS ON LONG-PULSE SOLAR SIMULATOR FOR CIGS THIN-FILM PV MODULE PERFORMANCE MEASUREMENTS .....</b>	<b>41</b>
<i>A. Liu, S. Shao, S. Chang</i>	
<b>COMBINED CONTROL METHODS OF IMPROVING THE ACCURACY OF COSMIC MEASUREMENT .....</b>	<b>45</b>
<i>Q. Liu, H. He, X. Mai, Z. Xu</i>	
<b>THE OPTIMIZE ELECTION OF TAILRACE TUNNEL BASED ON PRESSURE IN DRAFT AND SMALL FLUCTUATION STABILITY .....</b>	<b>49</b>
<i>C. Wang, J. Yang</i>	
<b>STUDY ON DATA SECURITY OF CLOUD COMPUTING .....</b>	<b>53</b>
<i>Z. Tang, X. Wang, L. Jia, X. Zhang, W. Man</i>	
<b>NUMERICAL MODEL FOR THE SIMULATION OF TWO-DIMENSIONAL SHALLOW-WATER FLOWS OF ARBITRARY TOPOGRAPHY .....</b>	<b>56</b>
<i>C. Ai, Y. Xing</i>	
<b>ACCELERATION STRATEGY IMPROVING THE PARTICLE SWARM OPTIMIZATION FOR MULTILEVEL THRESHOLDING PROBLEMS .....</b>	<b>60</b>
<i>Y. Liu, C. Mu, W. Kou, J. Liu</i>	
<b>A NOVEL LOWPASS FILTER USING THREE CORNER-CUTTING T-SHAPED COMPACT MICROSTRIP RESONATOR CELLS .....</b>	<b>64</b>
<i>K. Zhao, L. Li, Y. Wang</i>	
<b>IMAGE DENOISING BASED ON SUPPORT VECTOR MACHINE.....</b>	<b>67</b>
<i>G. Zhang, X. Hong, H. Xu, D. Lu, Y. Liu</i>	
<b>REDUCTION OF MUSICAL RESIDUAL NOISE USING HYBRID MEDIAN FILTER.....</b>	<b>71</b>
<i>C. Lu, F. Tseng, C. Chen</i>	
<b>CORRELATION OF MICROCIRCULATORY PARAMETERS DERIVED FROM THE GENERALIZED KINETIC AND DISTRIBUTED PARAMETER MODELS: A PERFUSION CT STUDY .....</b>	<b>75</b>
<i>T. Li, T. Koh, X. Wei, J. Zhao, T. Koh, C. Thng, L. Cheong, C. Lim</i>	
<b>USE ORM MIDDLEWARE REALIZE HETEROGENEOUS DATABASE CONNECTIVITY .....</b>	<b>79</b>
<i>H. Song, L. Gao</i>	
<b>A SURVEY ON STATE ESTIMATION ALGORITHM OF DISTRIBUTION GRID .....</b>	<b>83</b>
<i>Z. Zhang, M. Liu, S. Xiao</i>	

<b>PERFORMANCE ANALYSIS IN DISTRIBUTED SYSTEM OF DYNAMIC LOAD BALANCING USING FUZZY LOGIC</b> .....	87
<i>S. Saxena, M. Khan, R. Singh</i>	
<b>EFFECT OF MAGNETIC FIELD ON THE DISPERSION OF A SOLUTE IN FLUID FLOW THROUGH A CONDUIT WITH INTERPHASE MASS TRANSFER</b> .....	92
<i>G. Sarojamma, B. Ramana</i>	
<b>A MODIFIED SPEED AND POSITION ESTIMATION TECHNIQUE FOR PMSM BASED ON ESTIMATION ROTATING REFERENCE FRAME MODEL</b> .....	96
<i>D. He, X. Peng, J. Zhou, X. Zhong, X. Jiang</i>	
<b>WEIGHTED FITNESS MODEL IN COMPLEX NETWORKS</b> .....	100
<i>X. Chen</i>	
<b>A NOVEL VARIATION-AWARE INTERCONNECTION PARASITIC EXTRACTION METHOD FOR 40NM TECHNOLOGY</b> .....	103
<i>Z. Ren, X. Li, Y. Shi, S. Hu, W. Zhou, S. Chen</i>	
<b>GREEN CLOUD COMPUTING: AN ENERGY-AWARE LAYER IN SOFTWARE ARCHITECTURE</b> .....	107
<i>R. Beik</i>	
<b>HEURISTIC CONTENTION BASED BANDWIDTH REQUEST FOR IEEE 802.16 NETWORKS</b> .....	111
<i>R. Anbazhagan, N. Rangaswamy</i>	
<b>LIGHTNING STROKE SHIELDING OF ELECTRIC RAILWAY OVERHEAD CATENARY FEEDING SYSTEMS</b> .....	116
<i>K. Aodsup, T. Kulworawanichpong, K. Batsungnoen</i>	
<b>STUDY OF FAULT LOCATION ALGORITHM IN DISTRIBUTION NETWORK BASED ON FAULT MATRIX</b> .....	120
<i>Z. Chen, X. Zhang, X. Chen</i>	
<b>A KIND OF DATA STREAM CLUSTERING ALGORITHM BASED ON GRID AND RELATIVE DENSITY</b> .....	123
<i>H. Gao, R. Li, J. Hou</i>	
<b>THREE-PHASE BRIDGE TYPE ALL CONTROL OF RECTIFYING SEQUENCE PHASE AUTOMATIC IDENTIFICATION</b> .....	127
<i>Z. Chen, Y. Li</i>	
<b>IMAGE SEGMENTATION BASED ON MAXIMUM ENTROPY AND KERNEL SELF-ORGANIZING MAP</b> .....	131
<i>C. Lin, C. Yu</i>	
<b>MODIFIED PCA STABILOGRAM DECOMPOSITION AND ANALYSIS OF FLUCTUATIONS PHASE DIFFUSION</b> .....	135
<i>D. Maatar, R. Fournier, Z. Lachiri, A. Nait-Ali</i>	
<b>A NEW ALGORITHM OF IMAGE FILTERING BASED ON MATLAB</b> .....	141
<i>X. Yuan, W. Gao, H. Zhang</i>	
<b>COMPACT WIDEBAND BAND-STOP FILTER BASE ON NOVEL SIGNAL INTERFERENCE TECHNIQUE</b> .....	145
<i>Q. Wu, L. Li, K. Zhao, Y. Wang, J. Li</i>	
<b>RESEARCH ON METAL MAGNETIC MEMORY SIGNAL SINGULARITY DETECTION</b> .....	148
<i>M. Yu, S. Sun, S. Lin</i>	
<b>MODELING QUALITY ATTRIBUTES IN SOFTWARE PRODUCT LINE ARCHITECTURE</b> .....	152
<i>L. Tan, Y. Lin, H. Ye</i>	
<b>THREE PHASE VOLTAGE-SOURCE PWM INVERTERER MODELING USING STATUS SPACE METHOD</b> .....	157
<i>X. Song, G. Liu</i>	
<b>A FAST ROUTE PLANNING ALGORITHM</b> .....	161
<i>X. Wang, D. Zhu</i>	
<b>LOW COST AND AUTOMATIC CALIBRATION FOR MEMS GYROSCOPE</b> .....	165
<i>Z. Li, F. Duan</i>	
<b>STUDY OF CLOUD COMPUTING SECURITY SERVICE MODEL</b> .....	169
<i>Q. Su, F. Wang, Q. Hang</i>	
<b>LED SPECTRUM MEASUREMENT USING LOW-COST SPECTRUM SENSOR ARRAY AND PARTICLE SWARM OPTIMIZATION</b> .....	173
<i>C. Chang, C. Chen, U. Kurokawa, B. Choi</i>	
<b>A STUDY ON INFLUENCE OF FREQUENCY DOMAIN CONSTRAINT IN FFT-BASED FIR FILTER DESIGN</b> .....	177
<i>Z. Gao, J. Hua, W. Kuang, D. Yuan, L. Meng</i>	

<b>AN ADAPTIVE-ANGLE-METHOD FOR UYGHUR LOCATION</b> .....	181
<i>R. Deng, A. Halidan</i>	
<b>DOUBLE SIDEBAND SUPPRESSED CARRIER PERFORMANCE IN OPTICAL COHERENT BALANCED DETECTION</b> .....	185
<i>H. Teng, K. Lang</i>	
<b>IMAGE DENOISING VIA CLUSTERING-BASED SPARSE REPRESENTATION OVER WIENER AND GAUSSIAN FILTERS</b> .....	188
<i>C. Wang, J. Zhang</i>	
<b>STUDY ON DISEASE SCREENING AND MONITORING SYSTEM BASED ON WIRELESS COMMUNICATION AND IOT</b> .....	192
<i>X. Hu, L. Wang, P. Gao, H. Ma, X. Dong, Z. Ji, F. You, K. Long, Y. Peng</i>	
<b>MULTICLASS CLASSIFICATION OF MICROARRAY DATA SAMPLES WITH FLEXIBLE NEURAL TREE</b> .....	198
<i>X. Lei, Y. Chen</i>	
<b>REMARKS ON SERVO CONTROLLER USING QUANTUM NEURAL NETWORK WITH QUBIT NEURONS</b> .....	202
<i>K. Takahashi</i>	
<b>EFFICIENT SOFT MIMO DETECTION BY QR DECOMPOSITION OF CHANNEL MATRIX</b> .....	206
<i>M. Zhang, S. Kim</i>	
<b>A SUFFICIENT CONDITION FOR FINITE TIME STABILITY OF IMPULSIVE SWITCHING SYSTEMS</b> .....	210
<i>G. Chen, Y. Yang</i>	
<b>RESEARCH ON INTEGRATED MOBILE LIGHTNING PROTECTION DEVICE AND TECHNOLOGY</b> .....	214
<i>X. Zhao, Y. Zhou, Y. Guo, H. Li, L. Zhao</i>	
<b>JAVELEON: AN INTEGRATED PLATFORM FOR DYNAMIC SOFTWARE UPDATING AND ITS APPLICATION IN SELF-*SYSTEMS</b> .....	218
<i>A. Gregersen, B. Jorgensen, H. Koskimies, K. Koskimies</i>	
<b>APPLYING DISTRIBUTED OBJECT TECHNOLOGY TO DISTRIBUTED EMBEDDED CONTROL SYSTEMS</b> .....	227
<i>B. Jorgensen, L. Dalgaard</i>	
<b>OTSU IMAGE SEGMENTATION ALGORITHM WITH IMMUNE COMPUTATION OPTIMIZED PCNN PARAMETERS</b> .....	235
<i>K. Gao, F. Jia, M. Dong, M. Gao</i>	
<b>RESEARCH DATA MART IN AN ACADEMIC SYSTEM</b> .....	239
<i>F. Tria, E. Lefons, F. Tangorra</i>	
<b>INTELLIGENT CONTROL SYSTEM OPTIMAL DESIGN FOR AN INTEGRATED TYPE LASER WELDING DEVICE WITH 5 DEGREES OF FREEDOM IN MOTION</b> .....	244
<i>F. Huang, X. Hao</i>	
<b>A DCT ANALYSIS-BASED DEBLOCKING ALGORITHM USING SPATIAL POSTPROCESSING</b> .....	249
<i>J. Wang, J. Jeong, G. Jeon</i>	
<b>DISTRIBUTION NETWORK FAULT LOCATION ALGORITHM BASED ON ZERO-SEQUENCE CURRENT PHASE</b> .....	253
<i>Y. Qi, Z. Wen, H. Jia</i>	
<b>ANALYSIS OF DOUBLE STUB FILTER BY WAVE ITERATIVE METHOD (WIM)</b> .....	257
<i>S. Nounnoppadol, S. Khamkleang</i>	
<b>ANALYSIS OF MICROSTRIP LOW-PASS ELLIPTIC FILTER BY WAVE ITERATIVE METHOD (WIM)</b> .....	261
<i>S. Khamkleang, W. Nuansoi</i>	
<b>STUDY OF IMPROVED GENETIC ALGORITHMS IN DISTRIBUTION NETWORK RECONFIGURATION</b> .....	265
<i>Z. Chen, K. Cui</i>	
<b>CHARGE BALANCE CONDUCTIVE VINYL POLYMERS FOR HOMOJUNCTION ORGANIC LIGHT EMITTING DIODES (OLEDs)</b> .....	269
<i>L. Leung, J. Wang, M. Wong, Y. Law, K. Lai, T. Lee</i>	
<b>FUSION OF DECISIONS IN CENSORED WIRELESS SENSOR NETWORKS WITH MULTI-HOP TRANSMISSION STRATEGY</b> .....	273
<i>X. Yuan, X. He, F. Han, D. Feng</i>	
<b>PDE-BASED NON-LINEAR ANISOTROPIC DIFFUSION TECHNIQUES FOR MEDICAL IMAGE DENOISING</b> .....	277
<i>Z. Cao, X. Zhang</i>	

<b>FAST REFERENCE FRAME SELECTION WITH ADAPTIVE MOTION SEARCH USING RD COST</b> .....	281
<i>S. Jung, W. Park, T. Kim</i>	
<b>VELOCITY COMPENSATION BASED RANGE-DOPPLER DECOUPLING METHOD FOR FMCW LADAR</b> .....	285
<i>Q. Wang, X. Du, Z. Zhang</i>	
<b>RESEARCH ON STAINLESS STEEL PIPES AUTO-COUNT ALGORITHM BASED ON IMAGE PROCESSING</b> .....	289
<i>Y. Liu, Z. Sun</i>	
<b>PN CODE ACQUISITION USING SMART ANTENNAS AND ADAPTIVE THRESHOLDING TRIMMED-MEAN CFAR PROCESSING FOR CDMA COMMUNICATION</b> .....	292
<i>A. Sofwan, M. Barkat</i>	
<b>PERFORMANCE COMPARISONS OF FRAME DROPPING ALGORITHMS FOR DVS IN BATTERY-AWARE LOW-POWER VIDEO DECODING</b> .....	296
<i>C. Dou, Y. Lee</i>	
<b>MAVIS: FEATURE-BASED DEFECTS VISUALIZATION IN SOFTWARE TESTING</b> .....	302
<i>H. Wang, X. Zhang, M. Zhou</i>	
<b>DESIGN AND IMPLEMENTATION OF A LOAD-BALANCING MODEL FOR WEB-SERVER CLUSTER SYSTEMS</b> .....	306
<i>C. Zheng, J. Xia, Q. Wang, X. Chu</i>	
<b>DESIGN OF THE ELECTROMAGNETIC COMPATIBILITY DETECTION AND DIAGNOSIS SYSTEM BASED ON LABVIEW</b> .....	310
<i>Y. Liu, S. Xie</i>	
<b>LOW POWER INSTRUCTIONS SCHEDULING BASED ON ANT COLONY OPTIMIZATION</b> .....	314
<i>Q. Liu, Y. He, Y. Chen, X. Liao, N. Chen</i>	
<b>ANTI SQL INJECTION WITH STATEMENTS SEQUENCE DIGEST</b> .....	318
<i>B. Huang, T. Xie, Y. Ma</i>	
<b>INVESTIGATING A GAZE-TRACKING BRAIN COMPUTER INTERFACE CONCEPT USING STEADY STATE VISUALLY EVOKED POTENTIALS</b> .....	322
<i>J. Cottrell, S. Fitzgibbon, T. Lewis, D. Powers</i>	
<b>ROUGH SETS FOR MINING EDUCATIONAL DATA</b> .....	326
<i>J. Johnson, G. Johnson, R. Cavanagh</i>	
<b>HIGHLY SENSITIVE GMI SENSOR WITH AN EQUIVALENT NOISE 0.3 NT</b> .....	330
<i>H. Chang, M. Yang, J. Liu, M. Yang, J. Liu, Y. Yu</i>	
<b>FUZZY SELF-TUNING PD CONTROL ALGORITHM FOR RED</b> .....	334
<i>T. Wei, G. Hu</i>	
<b>AN IMPROVED DESIGN OF VOLTAGE-DOUBLING RECTIFIER CIRCUIT</b> .....	338
<i>C. Yu, Q. Dong, C. Zhang, J. Yao</i>	
<b>COMPARISON OF WEIBULL DISTRIBUTION AND CROW-AMSAA MODEL USED IN CABLE FAILURE ANALYSIS</b> .....	341
<i>Z. Tang, W. Zhou, J. Yu, C. Zhou</i>	
<b>BLOCK-BASED FAST INTEGRAL HISTOGRAM</b> .....	345
<i>J. Park, T. Kim</i>	
<b>A DESIGN OF HIGH-PRECISION DIGITAL RESISTANCE METER</b> .....	349
<i>Z. Cai, Y. Li</i>	
<b>DETECTION OF THE REFINED RECYCLED EDIBLE OIL BASED ON AN ULTRA-WEAK LUMINESCENCE IMAGING TECHNIQUE</b> .....	354
<i>R. Tang, J. Dai</i>	
<b>A NEW ADAPTIVE FEEDBACK LEARNING ALGORITHM FOR MULTITASK LEARNING</b> .....	358
<i>Z. Li, Y. Qi, W. Li</i>	
<b>SMART PHONES ENABLED TRAFFIC INFORMATION SERVICE PLATFORM</b> .....	362
<i>S. Zhang, S. Li, E. Pang, Y. Ji</i>	
<b>DEVELOPMENT OF NOVEL GAS DETECTION WIRELESS SENSOR NODE</b> .....	366
<i>F. Dian</i>	
<b>ZIGBEE ENABLED REMOTE TEMPERATURE MONITOR SYSTEM FOR HIGH-VOLTAGE SUBSTATIONS</b> .....	369
<i>J. Zhang, W. Dai, D. Huang, S. Zhang, Y. Ji</i>	
<b>REMOTE GAS METER READING SYSTEM BASED ON ZIGBEE NETWORKS</b> .....	373
<i>S. Cai, S. Zhang, D. Huang, S. Yu</i>	
<b>AN ALGORITHM FOR BINARY IMAGE RESTORATION</b> .....	377
<i>J. Zhang, K. Wang, J. Shang</i>	

<b>A NEW COOPERATIVE TRANSMISSION SCHEME FOR UPLINK SC-FDMA SYSTEM.....</b>	<b>381</b>
<i>C. Wu, Y. Li, S. Liu, Y. Duan, Z. Li</i>	
<b>THRESHOLDING-BASED IMAGE DENOISING USING TWO-DIMENSIONAL S-TRANSFORM .....</b>	<b>385</b>
<i>Y. Luan, F. Sun, P. Babyn, S. Song, G. Yao, Y. Zhang</i>	
<b>CONTENT-BASED IMAGE RETRIEVAL USING THE LOCAL STRUCTURES OF COLOR AND EDGE ORIENTATION .....</b>	<b>389</b>
<i>G. Liu</i>	
<b>SEQUENTIAL WEAVING AND BEHAVIOR SEMANTICS IMPACT ANALYSIS FOR ASPECTS.....</b>	<b>393</b>
<i>C. Yang</i>	
<b>MOA RESISTIVE CURRENT MEASURE SYSTEM BASED ON GPS AND WIRELESS TECHNOLOGY .....</b>	<b>397</b>
<i>J. Xu, Y. Peng, L. Shen, H. Song, Y. Liu, G. Sheng, X. Jiang</i>	
<b>WATER QUALITY EVALUATION BASED ON RBF NEURAL NETWORK WITH PARAMETERS OPTIMIZED BY PSO ALGORITHM.....</b>	<b>403</b>
<i>X. Shen, T. He</i>	
<b>ENHANCING PERFORMANCE OF DSTC-CODED OFDM RELAY LINK BY SUBCARRIER PAIRING.....</b>	<b>407</b>
<i>Y. Tan, D. Peng</i>	
<b>DISTURBANCE SOURCE SELF-DIAGNOSIS OF THE SMART GRID .....</b>	<b>411</b>
<i>H. Wu, Q. Duan, J. Ma</i>	
<b>RESEARCH ON 3D RECONSTRUCTION OF LAYER DATA OF ROTTEN WOOD IMAGES.....</b>	<b>415</b>
<i>W. Hou, L. Wang</i>	
<b>RELIABILITY DESIGN AND ANALYSIS FOR ARTICULATED PHASE INSULATOR.....</b>	<b>419</b>
<i>Z. Zhang, Y. Zhang</i>	
<b>THE MECHANISM RESEARCH OF LOW FREQUENCY OSCILLATION OCCURRED IN HEBEI POWER GRID OF CHINA.....</b>	<b>423</b>
<i>Q. Weng, Y. Xu, Z. Wang</i>	
<b>EFFECT OF SHAFT PARAMETER UNCERTAINTY ON SUBSYNCHRONOUS OSCILLATION SIMULATION.....</b>	<b>427</b>
<i>W. Kan, X. Xiao, B. Zhao, Y. Xu, S. Xiao</i>	
<b>ROBUST TRACKING USING ON-LINE SELECTION OF MULTIPLE FEATURES.....</b>	<b>431</b>
<i>S. Yi, Z. Yao, J. Liu, J. Chen, W. Liu</i>	
<b>SELF-CONSISTENT SIMULATIONS OF THE ELECTRIC FIELD AT THE CATHODE SURFACE .....</b>	<b>436</b>
<i>Y. Zuo, J. Wang, R. Fan</i>	
<b>DEVELOPMENT OF INTELLIGENT MULTIMETER SYSTEM BASED ON LABVIEW.....</b>	<b>440</b>
<i>X. Chen, X. Chang</i>	
<b>A PROBLEM-FRAME-BASED APPROACH FOR COMPONENT-ORIENTED DEVELOPMENT.....</b>	<b>444</b>
<i>Q. Chen, Z. Yong</i>	
<b>A METHODOLOGY FOR BUILDING CLOUD SERVICES .....</b>	<b>448</b>
<i>J. Tao, J. Zhao, L. Wang</i>	
<b>ESTIMATION OF MARKOV RANDOM FIELD PARAMETERS USING ANT COLONY OPTIMIZATION FOR CONTINUOUS DOMAINS .....</b>	<b>452</b>
<i>Y. Yu</i>	
<b>CONSTANT ACCELERATION MOVING TARGET INDICATION OF AIRBORNE SAR BASED ON ROAD ASSISTANCE.....</b>	<b>456</b>
<i>H. Shi, Z. Hou, X. Guo</i>	
<b>THE STATE-OF-THE-ART AND DEVELOPMENT TENDENCY OF CNC LASER CUTTING MACHINE AT HOME AND ABROAD-AN OVERVIEW .....</b>	<b>460</b>
<i>C. Liu, Y. Hu, B. Fu</i>	
<b>A NOVEL FAULT INJECTION ALGORITHM FOR SAFETY ANALYSIS .....</b>	<b>464</b>
<i>X. Wang, Z. Xu</i>	
<b>DESIGN OF ONLINE LEARNING SYSTEM BASED ON WEB MINING .....</b>	<b>468</b>
<i>C. Ji, Y. Zhao</i>	
<b>IMPROVED METHOD OF FEATURE SELECTION BASED ON INFORMATION GAIN.....</b>	<b>472</b>
<i>W. Li, X. Wang</i>	
<b>ZONAL RANDOM DISTRIBUTION METHOD BASED ON CO-CHANNEL INTERFERENCE IN LTE HIGH-SPEED RAILWAY SYSTEM .....</b>	<b>476</b>
<i>Z. Peng, G. Gao, Q. Wang, X. Xu</i>	
<b>MAGIC ROBOTS - RESILIENT COMMUNICATIONS: A GUARANTEED REDUNDANT EXPANSIBLE MESH BUILT ON UNRELIABLE MEDIA .....</b>	<b>480</b>
<i>D. Powers, A. Atiyabi, T. Anderson</i>	

<b>A NOVEL RECONFIGURABLE BANDSTOP FILTER USING FET RF SWITCH</b> .....	484
<i>K. Zhao, Q. Wu, J. Li</i>	
<b>FAULT SECTION ADDRESSING BASED ON CREDITABILITY</b> .....	487
<i>B. Zhang, T. Jiang</i>	
<b>BSS ALGORITHM BASED ON FULLY CONNECTED RECURRENT NEURAL NETWORK AND THE APPLICATION IN SEPARATION OF SPEECH SIGNALS</b> .....	491
<i>S. Li, B. Yang, J. Zhang, H. Wu</i>	
<b>A RESOURCE-CENTERED RUNTIME SOFTWARE COORDINATION MODEL AND ITS IMPLEMENTATION</b> .....	494
<i>C. Wang, X. Zheng, X. Tu</i>	
<b>DESIGN OF GROUP CONTROLLER FOR LOW-VOLTAGE CIRCUIT-BREAKER</b> .....	498
<i>K. Pang, S. Qu</i>	
<b>FREQUENCY-DEPENDENT I/Q IMBALANCE COMPENSATOR FOR 2X2 MIMO-OFDM SYSTEMS</b> .....	502
<i>T. Hsu, W. Lai, T. He</i>	
<b>A MATCHING METHOD IN THE HYBRID VISION SYSTEM</b> .....	506
<i>X. Chen, B. He</i>	
<b>OPTIMIZATION OF A TRANSVERSE ELECTROMAGNETIC RESONATOR FOR MAGNETIC RESONANCE IMAGING AT HIGH FIELD OF 9.4 T</b> .....	510
<i>R. Bouhmid, N. Benahmed, K. Aliane, S. Meriah, F. Bendimerad, N. Benabdallah</i>	
<b>RESEARCH ON DYNAMIC MODELING AND SIMULATION OF COMPLEX MECHANICAL-ELECTRICAL-HYDRAULIC COUPLING SYSTEM</b> .....	514
<i>G. Liu, B. Xu, T. Zheng, G. Liu, B. Xu, J. Yang</i>	
<b>RESEARCH OF SIMILARITY MEASURES FOR SCENE MATCHING ALGORITHM</b> .....	518
<i>Z. Xia, X. Yang, F. Meng, S. Wang</i>	
<b>ONLINE SIGNATURE VERIFICATION USING PROBABILISTIC MODELING AND NEURAL NETWORK</b> .....	523
<i>M. Alhaddad, D. Mohamad, A. Ahsan</i>	
<b>ANALYSIS AND DESIGN OF A 12-ELEMENT COUPLED-MICROSTRIP-LINE QUASI-TEM RESONATOR FOR MRI</b> .....	528
<i>K. Aliane, N. Benahmed, R. Bouhmid, S. Meriah, F. Bendimerad, N. Benabdallah</i>	
<b>A DECODING ALGORITHM IN HIGH-SPEED MOBILITY COOPERATIVE SFBC BASED OFDM SYSTEM</b> .....	532
<i>Z. Peng, Q. Wang, G. Gao, J. Jiang</i>	
<b>SPECTRUM HANDOVER WITH QUEUES AND GUARD CHANNELS IN COGNITIVE RADIO NETWORKS</b> .....	536
<i>S. Yang, J. Wu, J. Huang</i>	
<b>3D CAD MODEL RETRIEVAL USING 2D REPRESENTATIVE VIEWS</b> .....	540
<i>M. Shi, S. Zhang, L. Li, X. Bai</i>	
<b>ROC-CONCERT: ROC-BASED MEASUREMENT OF CONSISTENCY AND CERTAINTY</b> .....	544
<i>D. Powers</i>	
<b>THE PROBLEM OF CROSS-VALIDATION: AVERAGING AND BIAS, REPETITION AND SIGNIFICANCE</b> .....	548
<i>D. Powers, A. Atyabi</i>	
<b>EVOLUTIONARY FEATURE PRESELECTION FOR VIOLA-JONES CLASSIFIER TRAINING</b> .....	553
<i>S. Lang, M. Luerssen, D. Powers</i>	
<b>RESEARCH ON THE PRODUCTION OF THE CARRIER MOVING TRAJECTORY OF HIGH DYNAMIC GPS SIGNAL SIMULATOR</b> .....	557
<i>H. Ma, Y. Li</i>	
<b>ROBUST AND EFFICIENT NEAR-DUPLICATE DOCUMENTS DETECTION ON P2P NETWORKS</b> .....	561
<i>Y. Zhang, X. Dai, C. Wang, Z. Wei</i>	
<b>ENERGY SAVING ANALYSIS IN THE COLD END SYSTEM OF EXISTING 300MW TURBINE WITH HEAT PUMPS FOR HEATING</b> .....	565
<i>S. Chang, K. Sun, S. Zhang, J. Guo</i>	
<b>A NEW ADAPTIVE EDCA SCHEME FOR IMPROVING THE PERFORMANCE OF IEEE 802.11S NETWORK</b> .....	568
<i>F. Ning, Y. Wang</i>	
<b>STUDY ON JOINT-CODING BASED ON PRE-CODING AND STBC IN COORDINATED MULTI-POINT SYSTEM</b> .....	572
<i>J. Yang, Z. Zhang, Z. Jiang, X. Jiang, M. He</i>	

<b>MAXIMAL 13BIT VARIABLE RESOLUTION AND REDUCING CLIPPED NOISE FLASH ADC</b> .....	576
<i>X. Jin</i>	
<b>REDUCING THE LEAKAGE CURRENT AND PDP IN THE QUASI-FLOATING GATE CIRCUITS</b> .....	580
<i>F. Razaghian, S. Bonakdarpour</i>	
<b>A NOVEL DETECTION ALGORITHM BASED ON CAPON BEAMFORMING FOR V-BLAST SYSTEMS</b> .....	584
<i>J. Zhan, J. Lu, G. Lu</i>	
<b>QOSPMR: QOS-AWARE AND PRIORITY-BASED MULTIPATH ROUTING ALGORITHM FOR WMSNS</b> .....	588
<i>X. Wang, C. Li, J. Lu, D. Liu</i>	
<b>REVERSE RECOGNITION OF THE DIGITAL IMAGES FOR CHINESE CULTURAL RELICS</b> .....	593
<i>C. Wang, T. Chang, M. Lin</i>	
<b>NUMERICAL SIMULATION AND SPECTRUM ANALYSIS ON VALVE VIBRATION INDUCED BY FLUID FLOW</b> .....	597
<i>T. Shan, D. De, M. Li, C. Wang, Y. Shi</i>	
<b>DISCRETE-RATE ADAPTIVE MODULATION FOR MIMO-OFDM SYSTEMS WITH SPACE-FREQUENCY BLOCK CODE IN RAYLEIGH FADING CHANNELS</b> .....	601
<i>Y. Xin, X. Yu, X. Liu, X. Chen, T. Zhou, X. Yin</i>	
<b>A METHOD OF AEROSPACE TEST TASK SCHEDULING BASED ON GENETIC ALGORITHM</b> .....	605
<i>J. Tong, Y. Cai</i>	
<b>ROBUST TRANSCIEVER OPTIMIZATION FOR DOWNLINK MULTIUSER MIMO SYSTEMS WITH BOUNDED CHANNEL UNCERTAINTIES</b> .....	609
<i>B. Yu, Y. Liu, H. Hu</i>	
<b>HYBRID PASSWORD-BASED AUTHENTICATED KEY EXCHANGE PROTOCOL BASED ON BILINEAR PAIRINGS</b> .....	615
<i>F. Gao, F. Wei, C. Ma</i>	
<b>IMAGE SEGMENTATION FOR FRUIT BASED ON CONVEXITY OF ILLUMINATION DISTRIBUTION FEATURES OF LIGHT SOURCES</b> .....	619
<i>H. Deng, R. Wang</i>	
<b>SUPER-RESOLUTION DIRECTION FINDING OF COHERENT SOURCES WITH SPARSE ARRAY</b> .....	623
<i>W. Chen, X. Xu, L. Jie, J. Lei</i>	
<b>A 3-D GRAPHICAL METHOD APPLIED TO THE SIMILARITIES OF PROTEIN SEQUENCES</b> .....	627
<i>L. Li, F. Kong, J. Huang, X. Nan, Y. Yao</i>	
<b>STABILITY ANALYSIS ON DC POWER SYSTEM BY POWER SHAPING STABILIZING CONTROL STRATEGY</b> .....	631
<i>Z. Xie, H. Guo</i>	
<b>TIME-FREQUENCY ANALYSIS BASED ON MATCHING PURSUIT AND ITS APPLICATION ON EPILEPSY</b> .....	634
<i>W. Xiao, X. Zheng, Z. Wang, D. Ma</i>	
<b>MODIFYING THE POWER SPECTRUM OF CHAOTIC SIGNAL BY ADDING HIGH-ORDER FEEDBACK</b> .....	638
<i>B. Zhao, M. Guo</i>	
<b>THE FORECASTING METHOD ABOUT THE RATE OF WHEEL LOAD REDUCTION BASED ON NARX NEURAL NETWORK</b> .....	642
<i>B. Chen, X. Pang, X. Cheng, Z. Xing, Y. Qin</i>	
<b>THE RESEARCH OF THE HARD DISK DESTRUCTION DEVICE BASED ON MICROWAVE TECHNOLOGY</b> .....	646
<i>X. Wang, S. Liu, N. Li, L. Zhang</i>	
<b>THE CONTROL STRATEGY FOR OPTIMIZATION OF VOLTAGE AND REACTIVE POWER IN SUBSTATION BASED ON LOAD FORECASTING</b> .....	650
<i>B. Zhang, H. Guo</i>	
<b>IMPROVED IMAGE RECONSTRUCTION BASED ON BLOCK COMPRESSED SENSING</b> .....	654
<i>Q. Wu, L. Ni, D. He</i>	
<b>A CHANNEL CHARACTERISTICS PROJECTION METHOD IN MISO SYSTEMS</b> .....	658
<i>Y. Wang, K. Huang, J. Ji</i>	
<b>RECOGNIZING THE TRANSFORMER INRUSH CURRENT BY FPGA BASED ON ENERGY COMPONENTS</b> .....	662
<i>B. Zhang, S. Zhang</i>	



<b>DESIGN OF REPETITIVE CONTROLLER BASED ON VIRTUAL RESISTANCE IN PHOTOVOLTAIC SYSTEM.....</b>	<b>666</b>
<i>P. Wang, C. Diao, J. Zhang, H. Ding</i>	
<b>WAVELET FRACTAL CODING OF RADAR IMAGE FOR VDR STORAGE.....</b>	<b>670</b>
<i>F. Li, C. Shi, K. Guan</i>	
<b>DIGITAL SUBSTATION COMMUNICATION NETWORK SIMULATION PLATFORM BASED ON RTDS .....</b>	<b>675</b>
<i>B. Zhang, X. Zhang</i>	
<b>DIAGNOSIS OF KNEE OSTEOARTHRITIS BASED ON KALMAN FILTER.....</b>	<b>679</b>
<i>L. Ji, Y. Li</i>	
<b>CHARACTERISTICS OF A NOVEL SOLAR DISH SYSTEM.....</b>	<b>684</b>
<i>Y. Zhang, Z. Luo, G. Xiao, M. Ni</i>	
<b>A HIGHLY LINEAR BROADBAND CMOS LNA WITH NOISE CANCELLATION .....</b>	<b>688</b>
<i>P. Chen, J. Yang</i>	
<b>AN AUGMENTED REALITY SYSTEM USING QR CODE AS MARKER IN ANDROID SMARTPHONE.....</b>	<b>692</b>
<i>K. Ruan, H. Jeong</i>	
<b>RESEARCH ON SUBSTATION TRAINING AND SIMULATION SYSTEM BASED ON REAL-TIME DIGITAL PRIMARY SYSTEM.....</b>	<b>695</b>
<i>X. Wang, B. Zhang</i>	
<b>AN IMPROVED IMAGE SEGMENTATION METHOD BASED ON FAST LEVEL SET COMBINING WITH C-V MODEL.....</b>	<b>699</b>
<i>D. Xu, Z. Peng, Y. Yong</i>	
<b>A LARGE CAPACITY AND LOW COMPUTATION WATERMARKING BASED ON SUDOKU AND LIFTING WAVELET COEFFICIENTS .....</b>	<b>703</b>
<i>X. Yan, L. Zhang, H. Li</i>	
<b>A DYNAMIC PHASOR ESTIMATOR BASED ON LOW-PASS DIFFERENTIATOR ENERGY OPERATOR .....</b>	<b>707</b>
<i>X. Jin, F. Wang, Z. Wang</i>	
<b>DAYTIME OPERATION OF HEAT-PUMP WATER HEATER FOR MITIGATING VOLTAGE RISE DUE TO HIGH PENETRATION OF RESIDENTIAL PHOTOVOLTAIC POWER GENERATION SYSTEMS .....</b>	<b>711</b>
<i>T. Kato, Y. Suzuoki</i>	
<b>VOLTAGE-GRADING AND DISTRICT-GRADING DESIGN OF UHV RECEIVING POWER GRID.....</b>	<b>715</b>
<i>G. Xu, S. Ma</i>	
<b>DISTRIBUTION NETWORK RECONFIGURATION WITH WIND TURBINE BASED ON BREAKING CIRCLE .....</b>	<b>719</b>
<i>S. Ma, H. Zhang, G. Xu</i>	
<b>DESKTOP CLOUD-BASED RESEARCH ON UNIFIED AUTHENTICATION ARCHITECTURE.....</b>	<b>723</b>
<i>Y. Sun, X. Zou</i>	
<b>TECHNICAL FACTORS OF CONSISTENCY IN COSMIC MEASUREMENT .....</b>	<b>727</b>
<i>X. Mai, H. He, Q. Liu, Z. Xu</i>	
<b>SEMICONDUCTING PALLETS (BI<sub>2</sub>TE<sub>3</sub>, PB<sub>2</sub>TE<sub>3</sub> AND BI<sub>2</sub>PB<sub>3</sub>): AS THE THERMO POWER GENERATION ELEMENTS.....</b>	<b>731</b>
<i>J. Singh, S. Verma</i>	
<b>POWER SYSTEM LOAD FLOW DISTRIBUTION RESEARCH BASED ON ADAPTIVE NEURO-FUZZY INFERENCE SYSTEMS.....</b>	<b>735</b>
<i>G. Xu, Z. Wang</i>	
<b>MULTIPLE FAILURES ANALYSIS FOR COMPLEX ELECTRIC POWER SYSTEM.....</b>	<b>739</b>
<i>G. Xu, X. Liu</i>	
<b>A SMART STRATEGY FOR POWER FACTOR CORRECTION OF DISTRIBUTION NETWORK UNDER THE IMBALANCE CONDITION.....</b>	<b>743</b>
<i>G. Xu, Q. Zhou</i>	
<b>AUTOMATIC ARTIFACTS DETECTION AND CLASSIFICATION IN SLEEP EEG SIGNALS USING DESCRIPTIVE STATISTICS AND HISTOGRAM ANALYSIS: COMPARISON OF TWO DETECTORS .....</b>	<b>747</b>
<i>D. Migotina, A. Calapez, A. Rosa</i>	
<b>OPTICAL SIMULATION OF CONICAL LENS IN MEDICAL LIGHTING SYSTEM WITH UHB-LED.....</b>	<b>753</b>
<i>X. Yang, R. Li, D. Xiong</i>	

<b>THE SPECIAL AMPHIBIOUS VEHICLE DRIVING SIMULATOR DESIGN AND DEVELOPMENT</b> .....	759
<i>S. Zheng, Z. Ye, Z. Yang, J. Han</i>	
<b>GENERALIZED CORRELATIVITY OF MEDIAN FILTERING OPERATOR ON SIGNALS</b> .....	763
<i>W. Ye, Z. Liao</i>	
<b>AN EXHAUST GAS PURGING CONTROL ALGORITHM BASED ON FUZZY METHOD FOR PEMFC</b> .....	767
<i>J. Fang, D. Xiao, W. Qi, Q. Wang</i>	
<b>FAULT LOCATION FOR DISTRIBUTION NETWORK BASED ON GENETIC ALGORITHM AND STAGE TREATMENT</b> .....	771
<i>Q. Jin, R. Ju</i>	
<b>DESIGN AND RESEARCH OF AC TEST SYSTEM FOR ON-LOAD TAP CHANGER</b> .....	775
<i>D. Wang, Z. Song, Y. Dai</i>	
<b>COMPUTER-AIDED MEASUREMENT OF LIVER TUMOR VOLUME IN CT BY MEANS OF CHAN-VESE MODEL WITH NON-SAMPLING CONTOURLET TRANSFORM</b> .....	779
<i>W. Luo, J. Yang, Q. Lei</i>	
<b>THE ANTI-INTERFERENCE DESIGN AGAINST POWER FREQUENCY IN MULTIPLEX HIGH-PRECISION DATA ACQUISITION SYSTEM</b> .....	783
<i>F. Liu, D. Zhao, D. Huang, F. Liu, Z. Wang, X. Wu</i>	
<b>OPTIMIZATION DESIGN OF GROUNDING GRID MODEL FOR 500KV SUBSTATION</b> .....	787
<i>H. Zhang, Q. Liu, M. Chen, W. Wang, D. Huang, L. Yang</i>	
<b>COMPARATIVE STUDY OF RECONSTRUCTION ALGORITHMS FOR ELECTRICAL IMPEDANCE TOMOGRAPHY</b> .....	791
<i>K. Wu, J. Yang, X. Dong, F. Fu, F. Tao, S. Liu</i>	
<b>A MULTI-POPULATION UNIVARIATE MARGINAL DISTRIBUTION ALGORITHM FOR FEATURE SELECTION</b> .....	795
<i>A. Zhao, J. Han, C. Zhao, H. Qiang, B. Wei</i>	
<b>ON THE SIGNAL FEATURES ANALYSIS OF A PULSE INDUCTION METAL DETECTOR PROTOTYPE</b> .....	799
<i>J. Vega, A. Gauthier</i>	
<b>CODE SMELL DETECTING TOOL AND CODE SMELL-STRUCTURE BUG RELATIONSHIP</b> .....	803
<i>P. Danphitsanuphan, T. Suwantada</i>	
<b>THERMOMETER CODE BASED MODULAR ARITHMETIC</b> .....	808
<i>C. Vun, B. Premkumar</i>	
<b>COMBINED METHOD WITH TRANSFER MATRIX AND MEASUREMENT FOR INVESTIGATING THE DYNAMIC BEHAVIOR OF WIND TURBINE TOWER</b> .....	813
<i>W. Huang, M. Liao, Y. Cheng</i>	
<b>DESIGN OF A MULTISTAGE AMPLIFIER WITH HIGH GAIN AND WIDE BANDWIDTH PERFORMANCE</b> .....	819
<i>B. Lv, X. Peng, Z. Zhu, X. Li, Y. Hu, Y. Liu</i>	
<b>CONTACT ANALYSIS AND OUTPUT CHARACTERISTICS OF LONGITUDINAL-TORSIONAL ULTRASONIC MOTORS</b> .....	823
<i>H. Guo, H. Zhang</i>	
<b>A DESIGN OF WIDE-STOPBAND MICROSTRIP DIPLEXERS WITH MULTIORDER SPURIOUS-MODE SUPPRESSION USING STEPPED-IMPEDANCE RESONATORS</b> .....	827
<i>T. Sugchai, J. Rattapon, K. Sommart</i>	
<b>RULE EXTRACTION FROM MICRO-BLOG USING INDUCTIVE LOGIC PROGRAMMING</b> .....	831
<i>N. Chikara, M. Koshimura, H. Fujita, R. Hasegawa</i>	
<b>APPLICATION OF NEAR INFRARED SPECTROSCOPY IN QUALITY CONTROL OF PAECILOMYCES TENUIPES</b> .....	835
<i>J. Song, L. Du, S. Yang, J. Lu, Q. Meng, L. Teng</i>	
<b>MODELING AND SIMULATION FOR GOLF FUEL CELL ELECTRIC VEHICLE CONTROL SYSTEM</b> .....	839
<i>D. Xiao, W. Qi, H. Jin, J. Fang</i>	
<b>A POLICY-BASED DESCRIPTION APPROACH ON EXCEPTION HANDLING FOR BPEL PROCESSES</b> .....	843
<i>Q. Wang, S. Ying, J. Wen, G. Lv</i>	
<b>THE MATHEMATICAL MODEL AND SOLUTION METHOD OF GROUND GRID CORROSION DIAGNOSIS</b> .....	847
<i>F. Liu, L. Yang, D. Huang, Y. Du</i>	

<b>RESEARCH ON GROUND GRID DIAGNOSIS WITH TOPOLOGICAL DECOMPOSITION AND NODE VOLTAGE METHOD</b> .....	851
<i>X. Zhu, L. Cao, J. Yao, L. Yang, D. Zhao</i>	
<b>A HORMONE INSPIRED MULTI-ROBOT FORMATION ALGORITHM</b> .....	855
<i>G. Lin, X. Wang</i>	
<b>SEQUENTIAL MODULAR APPROACH IN THE SIMULATION OF GAS TRANSMISSION STATION</b> .....	859
<i>Y. Yun, L. Lin</i>	
<b>DEVELOPMENT OF A MULTI-FUNCTION SIGNAL GENERATOR BASED ON STM32 WITH HIGH PERFORMANCE</b> .....	862
<i>L. Chen, G. Liu</i>	
<b>A DTW AND BPN BASED APPROACH FOR MODELING NONLINEAR LOAD</b> .....	866
<i>G. Xu, S. Tian</i>	
<b>BINARY PARTICLE SWARM OPTIMIZATION ALGORITHM WITH GENE TRANSLOCATION FOR DISTRIBUTION NETWORK FAULT LOCATION</b> .....	870
<i>Y. Li, H. Ye, Z. Chen</i>	
<b>A STUDY ON SWIMMING ROBOT</b> .....	874
<i>X. Liu, Y. Liu</i>	
<b>LOAD MODELING BASED ON A MODIFIED CROWDING NICHE GENETIC ALGORITHM</b> .....	878
<i>H. Wen, H. Wu, J. Ma</i>	
<b>AN UNSUPERVISED IMAGE SEGMENTATION USING B-SPLINES FUNCTIONS</b> .....	882
<i>A. Hadrich, M. Zribi, A. Masmoudi</i>	
<b>RESEARCH ON TURNING VIBRATION SUPPRESSION BASED ON MAGNETORHEOLOGICAL EFFECT</b> .....	887
<i>Y. Zhou, Y. Zhang</i>	
<b>CAPACITY ANALYSIS OF DISTRIBUTED MIMO SYSTEM</b> .....	891
<i>X. Wang, J. Zhou, P. Liu, Z. Liu</i>	
<b>THE TARGET PRIORITY DETERMINATION OF RADAR BASED ON IMPROVED BP NEURAL NETWORK</b> .....	895
<i>L. Ma, Y. Wang</i>	
<b>FORMALISING OF TRANSACTIONAL MEMORY USING INTERVAL TEMPORAL LOGIC (ITL)</b> .....	899
<i>A. El-Kustaban, B. Moszkowski, A. Cau</i>	
<b>EFFECTS OF TURBULENCE ON BEAM PROPAGATION IN AN OTG CHAMBER AND TRANSMITTED BEAM WIDTH OPTIMIZATION</b> .....	905
<i>N. Mehta, H. Kaushal, V. Jain, S. Kar</i>	
<b>ESTIMATING THE SHORTEST RADIUS OF POWER SYSTEM SECURITY REGION IN NODE INJECTION SPACE</b> .....	910
<i>K. Liu, G. He, N. Chang</i>	
<b>A JACOBI METHOD FOR LATTICE BASIS REDUCTION</b> .....	917
<i>S. Qiao</i>	
<b>GRAPH-BASED LOCAL KERNEL REGRESSION FOR IMAGE EDITING</b> .....	921
<i>Y. Wang, S. Xiang, C. Pan</i>	
<b>A GRAPH BASED CLASSIFICATION METHOD FOR HYPERSPECTRAL IMAGES</b> .....	926
<i>J. Bai, S. Xiang, C. Pan</i>	
<b>AMP AWARE CORE ALLOCATION SCHEME FOR MOBILE DEVICES</b> .....	930
<i>B. Ko, J. Lee, H. Jo</i>	
<b>COMPACT IMPLEMENTATION OF SKEIN-256 HASH FUNCTION ON FPGA</b> .....	934
<i>D. Kundi, A. Aziz</i>	
<b>A COUPLED ALGORITHM OF FINITE VOLUME METHOD WITH MONTE-CARLO METHOD FOR SIMULATING TRANSIENT RADIATION EFFECTS OF SEMICONDUCTOR DEVICES</b> .....	938
<i>Y. Wei, H. Xie, D. Gong, J. Zhu, S. Niu</i>	
<b>REAL-TIME STABILIZATION ABOUT IMAGE WITH BIG TARGET BASED ON SAD ALGORITHM</b> .....	942
<i>W. Li, Z. Li</i>	
<b>THE RESEARCH OF ACTIVE DATA WAREHOUSE BASED ON MULTI-AGENT</b> .....	946
<i>F. Yan</i>	
<b>SYSTEM IDENTIFICATION OF THE EEG TRANSFORMATION DUE TO TMS PULSES: A NOVEL METHOD FOR A SYNCHRONOUS BRAIN COMPUTER INTERFACE</b> .....	950
<i>G. Price, R. Togneri</i>	
<b>A LIGHTING INSENSITIVE FACE DETECTION METHOD ON COLOR IMAGES</b> .....	955
<i>D. Ghimire, J. Lee</i>	

<b>VARIOUS BEHAVIORS OF WIEN-BRIDGE CIRCUIT AND QUASI-WIEN-BRIDGE CIRCUIT IN DIFFERENT SITUATIONS .....</b>	<b>959</b>
<i>H. Yu, Q. Chen</i>	
<b>SOLVING THE TAXI-TAKING PROBLEM BASED ON 3G MOBILE TERMINALS .....</b>	<b>963</b>
<i>R. Li, J. Yan, J. Yan</i>	
<b>DEVELOPMENT OF A COMPACT MARINE ENVIRONMENTAL MONITORING MODULE BASED ON SMT32 .....</b>	<b>966</b>
<i>C. Liu, B. Fu</i>	
<b>A KU BAND HIGH POWER RECTANGULAR WAVEGUIDE DIRECTIONAL COUPLER'S DESIGN .....</b>	<b>970</b>
<i>B. Kou, E. Li, Z. Zhang</i>	
<b>A NOVEL CRLH ZOR MICROSTRIP PATCH ANTENNA .....</b>	<b>974</b>
<i>Z. Zhang, E. Li, B. Kou</i>	
<b>A SCHEDULING SCHEME FOR EARLY DETECTION OF PRIMARY USER IN COGNITIVE RADIO NETWORKS .....</b>	<b>976</b>
<i>J. Yun, Y. Baek, J. Kim, S. Hwang, K. Cho, J. Li, K. Lee, K. Han</i>	
<b>A REPEATED GROUP SEQUENCE RENDEZVOUS SCHEME FOR COGNITIVE RADIO NETWORKS .....</b>	<b>980</b>
<i>J. Kim, Y. Baek, J. Yun, K. Cho, K. Lee, J. Han, S. Lee, K. Han</i>	
<b>MOVABLE RENDEZVOUS CHANNEL SELECTION FOR DISTRIBUTED COGNITIVE RADIO NETWORKS .....</b>	<b>984</b>
<i>Y. Baek, J. Yun, J. Kim, J. Li, W. Tessema, J. Yun, S. Hwang, K. Han</i>	
<b>ON-LINE TEMPERATURE MEASUREMENT SYSTEM FOR TRANSFORM SUBSTATION BASED ON INFRARED TECHNOLOGY .....</b>	<b>988</b>
<i>J. Yin, Y. Liu, H. Li, K. Wang</i>	
<b>EFFECTIVE OF UNICAST AND MULTICAST IP ADDRESS ATTACK OVER INTRUSION DETECTION SYSTEM WITH HONEY POT .....</b>	<b>992</b>
<i>A. Pomsathit</i>	
<b>3D PARTICLE SIMULATION ON CANCER GROWTH AND ANGIOGENESIS - USING 2D BLOOD VESSEL IMAGE .....</b>	<b>996</b>
<i>K. Nagayama, Y. Oshiumi, M. Yumita</i>	
<b>OPTIMAL PARAMETERS CONFIGURATION FOR TCP GOODPUT IMPROVEMENT IN CR NETWORKS .....</b>	<b>1000</b>
<i>C. Liu, H. Jiang, Y. Yang, G. Xu</i>	
<b>RESEARCH ON COGNITIVE RADIO ENGINE BASED ON GENETIC ALGORITHM AND RADIAL BASIS FUNCTION NEURAL NETWORK .....</b>	<b>1005</b>
<i>Y. Yang, H. Jiang, C. Liu, Z. Lan</i>	
<b>LED LIGHTING SYSTEM SWITCHED-MODE POWER SUPPLY .....</b>	<b>1010</b>
<i>B. Kim, E. Jeon, C. Kim</i>	
<b>AN IMPROVED COST-SENSITIVE LEARNING ALGORITHM FOR FACE RECOGNITION .....</b>	<b>1013</b>
<i>X. Jing, F. Yu, Y. Yao</i>	
<b>KERNEL HOLISTIC ORTHOGONAL ANALYSIS OF DISCRIMINANT TRANSFORMS .....</b>	<b>1017</b>
<i>X. Jing, C. Wang, Y. Yao</i>	
<b>PREDICTION RESEARCH BASED ON THE OPTIMIZED BP NEURAL NETWORK FOR COAL CALORIFIC VALUE .....</b>	<b>1021</b>
<i>Y. Jing, Z. Fu, M. Qi, J. Wang</i>	
<b>ADAPTIVE SEARCH IN QRD-M FOR COMPLEXITY REDUCTION IN MIMO X CHANNEL .....</b>	<b>1025</b>
<i>J. Su, W. Chang</i>	
<b>SYSTEM IDENTIFICATION OF BROADBAND SAMPLING OSCILLOSCOPE BY DECONVOLUTION ALGORITHM .....</b>	<b>1028</b>
<i>J. Zhu, R. Li, J. Miao, Y. Wang</i>	
<b>ENHANCE SOFTWARE QUALITY USING DATA MINING ALGORITHMS .....</b>	<b>1032</b>
<i>Z. Liaghat, A. Rasekh, A. Tabebordbar</i>	
<b>MACRO-MOTION COMPENSATION AND MICRO-DOPPLER ZOOMING BY MULTI-LEVEL DELAYED AND CONJUGATED MULTIPLICATION .....</b>	<b>1037</b>
<i>C. Feng, Y. Yang, N. Tong</i>	
<b>WEIGHTED KERNEL FUZZY C-MEANS METHOD FOR GENE EXPRESSION ANALYSIS .....</b>	<b>1040</b>
<i>Y. Wang, M. Angelova</i>	
<b>THE EFFECTS OF MOBILE PHONE ELECTROMAGNETIC RADIATION ON STAPHYLOCOCCUS AUREUS: A PRELIMINARY INVESTIGATION .....</b>	<b>1044</b>
<i>N. Buniyamin, M. Rosman, M. Ismail, Z. Mohd-Zain</i>	

<b>DEVELOPMENT OF A MALAYSIAN CURRENCY NOTE RECOGNIZER FOR THE VISION IMPAIRED</b> .....	1048
<i>A. Mohamed, M. Ishak, N. Buniyamin</i>	
<b>EFFICIENT DOA ESTIMATION OF COHERENT SOURCES USING UNITARY PROJECTION MATRIX</b> .....	1052
<i>Q. Chen, R. Liu</i>	
<b>VEIN IDENTIFICATION USING LINE FEATURES</b> .....	1056
<i>F. Li, L. Wang, Y. He</i>	
<b>DESIGN AND IMPLEMENTATION OF A HIGH FIDELITY GLONASS SIGNAL SIMULATOR</b> .....	1060
<i>Y. Hu, H. Li, M. Lu, Z. Feng</i>	
<b>Author Index</b>	