Contents:

Editorial Board .............................................................................................................. i
Call for Papers .............................................................................................................. vii

< PART 1 >

Risk Assessment Model Of Fuzzy CIM Based On Contract Energy Management Project........ 1
Yanmei Li, Jingmin Wang

Dynamic Modeling of Scroll Expander in Organic Rankine Cycle Systems....................... 10
Guolian Hou, Shanshan Bi, Jiancun Feng, Jianhua Zhang

Fast 3D Clouds Simulation Based on Particle System ..................................................... 20
Pan Qiuyu, Bi Shuoben, Lu Lianghu, Shi Yin

Interactive Plant Modeling Based on Image ................................................................... 29
Lanling Zeng, Zhihong Jin, Lanjie Chen

Analysis of Stray Current Under Track To Earth Insulation Defect in Urban Mass Transit.... 37
LI Guo-xin,ZHANG Dong-liang,WU Yu-ling,LIAO Hong-mei

Research and Implementation of Job Scheduling Algorithm in For CES Cluster Router ........ 46
Guowei Dai, Bin Zhuge, Lei Wan, Huanhuan Song, Hua Wang, Weiming Wang

Approximation by Complex Gamma Operators in Compact Disks.................................... 54
Qing-Bo Cai, Xiao-Ming Zeng

Register File Load Balanced VLIW Scheduling for Distributed Register Files.................. 61
Maolin Guan, Chunyuan Zhang, Nan Wu

A Low Voltage Cell Crushing System Based on MEMS Technology ............................. 71
Jiang Feng, Yu Jun, Chen Jian-jun

Research on Parking Space Optimal Design Method in Parking Lots ............................... 79
Chang Guo, Ping Guo

Building Lightweight Network-based Capabilities in Network with Locator/Identifier Separation ...................................................................................................................... 86
Jianqiang Tang, Ying Liu, Hongke Zhang

A Modularity Similarity Measure Based Spectral Clustering with Out-ofsample Extension .... 95
Kan Li, Zheng Zhou, Jiong Peng

Topology Dynamic Property on Connectivity Graph Level for Wireless Ad Hoc Network...... 104
QIN Danyang, LI Hongwei, MA Hongbin, DING Qun, MA Lin
Engineering Optimization Algorithm based on Particle Swarm Optimization................. 113
Xuesong Yan, Hong Yao, Qingzhong Liang, Chengyu Hu, Yuanyuan Fan, Wenzhi Huang

Circuit Optimization Design based on Improved Cultural Algorithm.......................... 122
Xuesong Yan, Chengyu Hu, Hong Yao, Qingzhong Liang, Yuanyuan Fan

Research on Innovative Practice Teaching and Quality Evaluation System for Software
Engineering Speciality.................................................................................................. 131
Yong ZHANG, Jianli DONG, Junming WU

Research on Monitoring Image Compression and Transmission for Airport Special Vehicle
Dispatching System................................................................................................. 140
Xudong Shi, Bingliang Nie, Liwen Wang

Literature Review of Supply Chain Flexibility: A Value Configurations’ Perspective......... 149
Hua Feng, Pan Zhang, Zhongchao Feng, Yuanfeng Cui

Multi-Loading Ant Colony Clustering Algorithm Based On Dynamic Neighborhood........ 161
XianWen LUO

An Approach for Transforming LOTOS Specifications into MARTE Models.................. 170
Yi Zhu, Hang Zhou, Zhiqiu Huang, Guangquan Zhang

Parameters Optimization and Application Research of v-Support Vector Machine......... 180
Jing Bai, Peiyun Xue, Xueying Zhang, Jie Wang

The Model Construction of Whole E-Product and Its Satisfaction Survey ..................... 190
Jun Zhuo, Ying Chen, Danyang Huang

Clustering and Evaluation on Electronic Commerce Customers Based on Fuzzy Set......... 199
Hongxin Wan, Yun Peng

A Clustering Routing Algorithm Based on ACA for WSN ........................................ 207
Yan Gu, Yucheng Shao, Jie Guo, Dahai Jing

Research on Intelligent Monitoring System of the Important Valve........................... 217
Youchen ZHANG, Peng SONG, Weiguo LIN

Enhancement of Anonymous Authentication Scheme in Wireless Environments............. 224
Xiaoming Wang, Shuaiwen Xu

Dynamic Trust Model of Software Behavior Based on Expanded Subjective Logic.......... 234
Tian Junfeng, Liu Yuling

Direction Search Algorithm in Ad-Hoc Network Based on P2P Network...................... 243
Song LianYou
Clonal Selection Multispectral Image Fusion Based on CP and Contourlets ........................................ 250
Haiyan JIN, Shuai LI

Satisfiability Problem Based on Self-assembly of DNA Molecular Beacon Model ....................... 259
Zhixiang Yin, Zhilan Jiang

Design of a Digital Phase Shift IC with Frequency Drift Self-adaptive Capacity ......................... 266
Feng Hui

A Self-adapting Segmentation Algorithm for the Low-quality Video Images ............................. 275
Zhenghong Liu

Strategy Study on Infrastructure Construction with Cloud Computing for Enterprises .......... 282
YANG Zhexi, XUE Huacheng

A Cellular Grid Model to the Repeater Coordination .................................................................. 290
Yueying Yang, Jun Meng, Di Liu, Zhanguo Zhang, Di Cui, Yuanjie Zhu, Qiang Fang

< PART2 >

Applications of a TransFLash in an Embedded System Debugging ............................................ 299
Wei Chongyu, Weichen WEI, Huang Shuai

A Face Recognition Method with Illumination Robustness .......................................................... 308
Shoujia WANG, Wenhui LI, Weina FU, Shuai LIU, Ying WANG, Peixun LIU, Bo FU

Cycle Slips Detection and Correction of GPS Based on Carrier Phase Differences and Polynomial Fitting.................................................................................................................. 316
Feng Tian, Bo Xu, Chuanyun Wang

DNA Computing Based on Molecular Beacons for Minimal Vertex Covering Problems of Graph .................................................................................................................................................. 324
Zhixiang Yin, Jinfeng Zhou

A Novel Image Reconstruction Algorithm Based Trust Region of Conjugate Gradient for Electrical Capacitance Tomography System ........................................................................ 332
CHEN Deyun, SHAO Lei, WANG Lili, YU Xiaoyang

RSSI-SDSTWR Estimation Method for Indoor Ranging ................................................................. 339
Liu Wei, Xu Hui, Wang Chunzhi, Zou Jian

Research on Formation Control of Multi-Robotic Fish ............................................................... 349
LI Shu-qin, Yuan Xia-hua, Bao Hua

On the Security of a Certificateless Aggregate Signature Scheme ............................................. 358
Li-min Shen, Yin-xia Sun

A Novel Sampling Algorithm for IR-UWB Time-Delay Estimation Based on Compressive Sensing ........................................................................................................................................ 368
Lingwen Zhang
Unmanned Airship Based High Resolution Images Acquisition and the Processing .............................. 379
Qian Yang, Shengbo Chen, Peng Lu, Mingchang Wang, Qiong Wu, Chao Zhou, Yanli Liu

Node Similarity Reveals Community Structure in Complex Networks ............................................ 387
Pengli Lu, Shenglong Zhang

Detecting Overlapping Communities Based on Link-link Similarity and SNMF ......................... 393
Xia Feng, Huimin Chen

A Dynamic-key Authentication Scheme Based on Synchronization of Spatiotemporal Chaos ....... 403
Yi Xiaolin, Liu Xuhai

An Efficient Architecture of 1-D Discrete Wavelet Transform for Noise Reduction ................. 412
Chin-Fa Hsieh, Tsung-Han Tsai, Chih-Hung Lai, Shu-Chung Yi

Bio-Signal Similarity Measurement by Tunnel Morph ..................................................................... 420
Gang Zheng, Rui Zhao, TongTong Liu, Min Dai

Method of Pedestrian Detection using Rough Set and Histograms of Oriented Gradients ...... 430
Jun Hu, Chun Guan, Xin Zhou

Emotional Inference Machine based on Information Granule .............................................................. 439
Jun Hu, Chun Guan, Bocheng Liu

Automatic Scoring for English Spoken Question and Answer ......................................................... 448
Xi Zhou, Li Wang, Fuping pan, Bin Dong, Yonghong Yan

Application Research on Cloud Computing in the Field of Statistics ............................................. 456
Qingfeng Wu, Xiaopeng He, Huailin Dong

Fault Diagnosis of Wind Turbine Hydraulic Variable Pitch Systems Based on FPN ............... 463
Yang Xi-yun, Li Jin-xia, Fang Jiang-nan, Wang Chuan-chuan

Estimates of the Solutions in Nonlinear Biological Mathematics Problems ............................... 472
Hailiang Zhang

Algorithm Study of Load Balance Based On Live Migration of VM in Cloud Computing ...... 481
Zhiyong Yang, Gang Dong, Chunlin Li

Analysis and Calculating on Stator Slot Leakage Inductance of Six-phase AC Machines ....... 490
Shi Xianjun, Liu Lingshun, Zhang Shutuan

Livestock Product Demand Prediction Based on Neural Network Ensemble ................................. 499
Qian Liu, Tong Li, Wei Xu, Cheng Cheng

Real-valued Multi-dimensional Detection Algorithm ................................................................. 506
Liu Hailong, Zhang Fengbin, Xi Liang
Changbing Jiang, Chunhua Ju, Guanglan Zhou, Yi Zhou

Computer Simulation and Parameters Optimization of Vacuum Casting
Zhang Hai-Guang, Hu Qing-Xi, Liu Yuan-Yuan

A Design and Implementation of Circle Graph Generation Based on Ajax and Improved Bresenham Algorithm
Yutong Gong, Yanlai Liang, Wenzhen Gong

A Binary Robust Image Feature for Fast Keypoint Matching
Zhengguang Xu, Chen Chen, Xuhong Liu

Using Neural Network and Grey Prediction to Predict the Stock Price in Semiconductor Industry
Ching-Pei Lin, Tzu-Chin Chao, Sheng-Chu Su

An LMI Approach for Dynamics of Cohen-Grossberg Neural Networks with Mixed Delays
Chuangxia Huang, Changlin Peng, Li Liu, Ancheng Chang

Cross-Correlation Properties of Binary Sequences with Almost Optimal Autocorrelation Magnitude
Xuan Zhang

< PART 3 >

Modeling Relationships in Society Network
Jie Hu, Ming Zhong, Jine Chang

Exposing Recaptured Images by Detecting Features of Lighting
Lu Yanfei, Zhang Tengyun, Jing Tao, Liu yun

Automatic Extraction Method of Microscopic Graduation Line Based on Dynamic Clustering Algorithm
Jianxing Li, Junjie Bai, Ying Wu, Jian Dong, Huabin Wang

An Extended Authentication and Key Agreement Protocol Based on Self-Organizing Group
Mengmeng Wang, Guijiang Zhu, Yizhe Zhang

Extracting Communication Signals based on Particle-Swarm-Optimization and Adaptive-Neural-Fuzzy-Control
LI Jia-sheng, WANG Ying-de, TIAN wang-lan

A Study on Partial Discharge in GIS based on the Sensor Array Technology
Peijiang LI, Ting YOU

Application-Specific NoC Topology Synthesis Using Improved Genetic Algorithm
Guoming Lai
Disturbance Compensation Based H∞ Synthesized Control Approach for the Load Frequency Control of Wind-Diesel-Storage Hybrid System in Isolated Island ............................................. 637
Zhenzhen Zhang, Hoingbing Xu, Jianxiao Zou, Xiaoshuai Xin

Research on Inbound Tourists' Evaluations for Chinese Traditional Cultural Performances as Tourism Product Based on Structural Relationship .................................................. 646
QIAO Guang-hui

Knowledge Partition Granularity Representation of Weighted Information System ........ 626
Daolin Wang, Yingkun Hou, Xia Wang

Algebra Operations of File View in Intranet Environment ............................................. 664
Yong Ai, Hongbin Dong, Sai Liu, Yiwen Liang, Jun Tie, Ji Ma, Jiaqi Qu

ROS based Multi-Robot Cooperative Localization ......................................................... 671
Chongben Tao, Gang Li, Guodong Liu

Manipulating Dynamic Fluctuation Drawbacks in a Virtualized Environment ............ 679
Ahmed Sallam, Kenli Li, Ahmad Salah, Xiangyuan Zhu

A Novel Approach to Widget Application Verification Considering the Data-Binding Behavior ................................................................. 688
Bin Peng, Shuoping Wang, Ming Guo, Minghui Wu

Restricted Voice Recognition for Robot Movement Control ........................................ 697
Anton Satria Prabuwono, Siti Norul Huda Sheikh Abdullah, Ramani Ganason, Hasrul Che Shamsudin

Improving Scalability of Discriminative Learning Markov Logic Networks for Open Information Extraction ................................................................. 706
ChunPing Ouyang, YongBin Liu, Xiaohua Yang, Ying Yu, Yaping Wan

A Double-Random-Phase-Encoding Technique and LSB Substitution Based Image Hiding Method with High Quality Recovered Image ................................................. 714
Jun Sang, Bing Zhang, Daxiang Hong, Bin Cai, Li Fu

A New Complex Network Model of Urban Streets ....................................................... 720
Chunmei Cai

Applying GM(h,N) and Rough Set to Discuss the Enrollment Drops in Universities .......... 729
Tian-Wei Sheu, Wei-Ling Liu, and Masatake Nagai

L-Fuzzy ω-Finite state Büchi automata ................................................................. 738
Ri-Xian Liu

Dynamic Count: An Energy-Efficient Mechanism for WSN MAC Protocol ............... 745
Hao Sun, Yongrui Chen, Binhua Wang, Weidong Yi
Robot Navigation Strategy on Kernel-Methods-Based Multi-Sensor Fusion ......................... 756
Chen Tianding, Jin Weiwei, Ye Meiqian, Wu Di, Yingtao Jiang, yiyian Li

Keyphrase Extraction Using Global Correlation ................................................................. 770
Jiaoshen Sun, Xiaojie Wang, Caixia Yuan, Xue Zhou

Aquaculture Monitoring System Design based on BPNeural Network Algorithm ............... 779
LI Xin-hui, YU A-long, SUN Hong-bing, JIA Fang-fang, PAN Miao

Industry Convergency and the Chinese Service Industry Performance ............................. 789
Hua Liu, Ting Xiao, Qisheng Zhou

A Multimedia Database Model for Complex Multimedia Structural .................................. 798
Yu WEN-GANG

A Multimedia Access Platform based on Multi-ontology ................................................... 806
Yu CHUN-LING

JI KE-KE

Firm Heterogeneity and Location Decision of Chinese Outward FDI .................................. 822
Huihuang Liu, Huimin Xiao

Nonlinear Dynamical Behaviors of a Blade-Rotor-Permanent Bearing System for Vertical Pump 830
Jun hui Chen, Feng yu Yang

Movie Keyframe Retrieval Based on Cross-Media Correlation Detection and Context Model 838
Yukang Jin, Tong Lu

The Building of Network Information Security Comprehensive Evaluation index System based on Analytical Hierarchy Process ................................................................. 850
Li Tao, Xu Jiang

Vowel Identification based on Free Energy Score Space and Hidden Markov Model .......... 857
Qi Lv

Image Retrieval based on the Color Cluster of Target Region .......................................... 864
Wang Tao, Chen Wen qing