

Table of Contents Volume 1

ICACTE 2009 Session 1

A Proposed Intelligent Software Agent Criteria For Educating Deaf Student the Sign Language	1
Safaa S. Mahmoud	
RISP Configuration Overhead Optimization Using an Efficient Configuration Unit	15
M.Aqeel Iqbal and Uzma Saeed Awan.	
A Comparative Study of Some Wavelet Functions in the Denoising of Phonocardiogram Signals	25
Nayad kouras, Daoud Boutana, Messaoud Benidir and Braham Barkat.	
Stereo Image Reconstruction Using Adaptive Window Approach	33
Osama Hosam and Xingming Sun.	
Using Dominating Set and TSP Algorithm for Data Collection with Mobile Sink in Wireless Sensor Networks	43
Tao Chen, Deke Guo, Xueshan Luo, Junxian Liu and Zhen Shu.	
Visualization of Genetic Algorithms for multi-objective transportation problem in Java	51
Fathy el-kazzaz, Mahomoud Moussa and Waiel Abd El-Wahed.	
Robust Feed-forward Schemes for Anti-sway Control of Rotary Crane	61
Mohd Ashraf Ahmad, Raja Mohd Taufika Raja Ismail, Mohd Syakirin Ramli, Mohd Anwar Zawawi and Normaniha Abd.Ghani.	
Partitioning Large Database Using Irrelevant Attributed for Knowledge Discovery and Learning	69
Mohamed A.Al Moghalis and Ibrahim F.Imam.	
Low-Complexity PAPR Reduction Schemes Using SLM and PTS Approaches for Interleaved OFDMA	77
Zid souad and ridha bouallegue.	
Alternating Group Method For Dispersive Equations	87
Qinghua Feng.	
Force Histograms and Radial Density for Invariant Image Retrieval	95
Pisit Phokharatkul, Nattapong Songneam, Chom Kimpan and Supachai Phaiboon.	
Classical Methods and wavelet analysis for image denoising: A comparative study with applications to Scanning Electron Microscope	103
Mahmoud Arbid, Daoud Boutana and Messaoud Benidir.	

A Dynamic Path Planning Algorithm with Application to AFM Tip Steering	113
Sami A. Mostafa, Ayman M. Brisha	
A Method to Monitor the BitTorrent File Sharing Based on Characteristic Value	121
Jie KONG, Wandong Cai	
W-ATM MAC Protocols and Demonstration for the European MAGIC WAND Project, MASCARA Protocol and PRADOS Algorithm	129
Mohamed Samir Mohamed, Elsayed M. Youssef, Nayera Sadek	
Visualization for Student-Project Allocation with Preference over Pairs	145
Ahmed Hassan Abu El-Atta and Mahmoud I. Moussa.	
W002 A Novel Architecture for Commercial and Financial transactions over mobile phones	153
Meisam Hejazinia, Mohammadreza Razzazi	

ICACTE 2009 Session 2

Text Line Detection in Multicolumn for Indian Scripts using Histogram: A Document Image Analysis Application	161
Umesh Kumar Thakral and Jagdish Raheja.	
Implementation Strategy and Process of E-Business and ERP Integration	169
Luo zhaohui and Yang Xuequan.	
Parallel Difference Method For Poisson Equations	177
Qinghua Feng.	
Realization of Nonparametric Structural Optimization in DESIgn of Aircraft components	185
Waqas saleem, Lu HU, Fan Yuqing, Yu Yong	
Aerial Image Classification Using Fuzzy Miner	193
Pisit Phokharatkul and Supachai Phaiboon.	
A Learning Automata-based Technique for Training Bayesian Networks	201
Nabi Allah Rezvani and Mohamad Reza Meybodi.	
The Simulation of Lunar Exploration and Image Transmission	213
Jia Yu, Peng Zong and Baofeng Ma.	
Implementation Of Helicoid Machining With Bp Neural Network	221
Jia Jianjun and Li Jian.	
The μ -3-Tower Diagram μ Reverse Educing Method For Developing Highly Skilled Personnel	229
Yang Xuequan and Luo Zhaohui.	
An Adaptive Middleware Platform	237
Jianli he, Rong Chen and Weinan Gu.	
Implementation Of Computer Control System Of Powder Injection Production	245
Shutao Wei, lin chen and Lili Cui.	

A Class Of Parallel Iterative Method For 2D Hyperbolic Equations	251
Qinghua Feng.	
EOrBAC-Based Active Directory Management	257
Ahmad Hassan and Waleed Bahgat.	
Urban water supply quantity forecasting by GA-SVM	265
Xu Chen.	
Resource-Aware Routing in Interplanetary Mars Surface Network	271
Mahendiran Prathaban and Josephine Kohlenberg.	
Design And Implementation Of The Active Image IP Multicast System	285
Yan Niu, Jiangyi Du, Yongchao Chen	

ICACTE 2009 Session 3

A New Method For Time-Frequency Modification Of Speech Signal Using A Combining Cosine Modulated Pseudo-Qmf-Bank & Sola Algorithm For Listeners With Hearing Impairment	291
Fayal Ykhlef, Messaoud Bensebti, W. Benzaba, L. Bendaouia, R. Boutaleb, H. Meraoubi	
Risk Fusion Measurement of Software Development Based on Information En- tropy	303
Rong Jiang, Jiankun Yu, Chengyi Li, Hongzhi Liao, Jiahua Tang, Shen XiangYun	
A Project-Oriented Teaching Method In Digital Learning Environments	311
Ou Jian, Huang Zheng-Fu, You Jin-Sheng And Dong Yi-Ning.	
Forecasting for Reservoir _i 's Water Flow based on RBF Neural Network Opti- mized by Genetic Algorithm	319
Yan-gao Chen..	
The Study on Instructional Design of Adult Mobile Learning Resources	325
Zhang Xiaoli, Zhang Peng, Luo Zhaohui and Yu Yin.	
Non standard forms of data loss prevention in Oracle	333
Martin Juhas, Bohuslava Juhasova, Maximilian Stremy and Milan Remenar.	
Design of Missile Autopilot Considering Hardware Constraint	341
Bo wang and Yu WANG.	
Energy-Efficiency Coverage Optimization for Heterogeneous Wireless Sensor Networks	349
Di Xin.	
Mine Fire Early Prediction Method with Multi-Parameters Based on Neural Net- work Optimized by Levenberg-Marquardt Algorithm	357
Jiang Chao, Chen Jingyuan, Liu Yubo And Shen Sijun.	

Arpfs: An Asynchronous Replication Protocol Under Fixed Space-Consistency	365
Chao Wang, Zhanhuai Li, Kun Ren and Xiaoyu Li.	
Resource-Speed Trade-off Of The SHA-1 Algorithm Implementation In Low Cost SRAM-based FPGA	373
Jianhua He, Hu Chen and Huaqiang Huang.	
Robot Path Planning For Two Mobile Robot in an Environment with Obstacle By Using Artificial Potential Feild	381
Amir Nooraliei, Adem Alpaslan Altun	
3D Modeling And Simulation For Flexible Cable	391
Gang Chen	
Application of Chaos-Radial Basis Function Neural Networks Coupling Model in Rainfall Forecasting	399
Xun jian Long and Chuan Liang.	
A Hybrid Method For Global Optimization Of Multivariate Polynomial	407
Jiwei Xue, lili zhao, xingshang xiang	
Conceptual Modeling For Simulation: Steaming Frozen Food Processing In Vending Machine	415
Fauziah Zainuddin, Norlin Mohd Ali and Roslina Mohd Sidek.	

ICACTE 2009 Session 4

An Error Handling Method For Primary-Backup Replication Protocol	425
Chao Wang, Zhanhuai Li, Xiaoyu Li and Qiaoshi Zheng.	
Integration Of Pdm, Erp And Mes Through Single Source Of Product Data For Product Design And Development	433
Muhammad Younus, Lu Hu, Yu Yong and Fan Yuqing.	
Electrostatic Target Characteristic Predictor Based on Fuzzy Neural Network	441
Yan Yan, Lixin Xu and ZhanZhong Cui.	
Honey Bee Foraging Pso Algorithm With Self-Adjusting Neighborhood Size .	449
Muhammad Rashid, A.Rauf Baig, Muhammad Amjad Iqbal	
Research on Trajectory Stability of Bomb-parachute System	457
Heng XUE, Chunlan JIANG, Biqiang ZENG and Zaicheng WANG.	
Energy-Efficient Real-Time Scheduling With Accrual Utility Under Energy Bounds	465
Jian-Jun Han and Xiaodong Wu.	
A New Hybrid Algorithm Applied To Wave Directional Spectrum Estimation ...	473
Zheng Wei, Zhang Dianlun And Sun Dajun.	
A Kind of Migration Algorithm based on Associated Task in Grid	481
Hong Liang, Chang Liu, Xuedong Qi, Changzhen Xing	

A Real-Time Simulation System For Excavator Controller	489
Wen Gong and Qingfeng Wang.	
On Artificial Immune Techniques in the Surface Defects Detection System of Cold-Rolled Strips	495
Bo Su	
Grey System Theory Application On Industrial Structure And Economic Development: Evidence From Chinese Shandong Province	501
Na Liu and Fuzhong Chen.	
Tolerating Memory Latency: L2 Cache Actively Push Structure	509
Zheng Qiaoshi, Gao Deyuan, Shi Liwen and Chen Jie.	
Hierarchic Particle Swarm Optimization Based Target Tracking	517
ChangFeng Niu, yu-shu liu	
Real-time Visualization Method for Large-scale Crowd Simulation	525
He Xiao.	
Image Smoothing based on Game of Life	531
Li kai, tian shuang liang, geng li jun, Zhang Xi	
Machinery MAINTENANCE Scheduler SYSTEM	537
Fauziah Zainuddin, Roslina Mohd Sidek, Noorlin Mohd Ali, and Mohd Hafizul Mat Rahim	

ICACTE 2009 Session 5

Steganalysis Based on the 2-D Histogram in Frequency Domain	547
Qian Lan Deng and Jia Jun Lin.	
Simulation and Agitation Characteristic Model of Screw Shaft in Bituminous Mixture Transfer Vehicle Based on PSO and L-M Algorithm	553
Zhang-ping You, Wan-li LI, Peng-cheng Wang and Zi-guang Li.	
Research On The Barcode Positioning And Correction Method Based On Improved Convex Hull Algorithm For Mobile Phone	561
Zhi Liu, Ruiyi Yan and Jian Lu.	
AAP and AAPM: Improved Prefetching Structures of the L2 Cache	569
Zheng Qiaoshi, Gao Deyuan, Chen Jie and Wang Chao.	
Infrared and Visible Light Image Fusion Based on ̄ Trous Contrast Pyramid and Nonsampled Directional Filter Bank	577
Ding Li and Hanchong Zhao.	
The Design and Realization of Wireless Sensor Network Gateway	583
Wu jiaping, Shen Jianhua, Fan WAnyong	
Stabilization of Aerodynamic Unstable Missiles Using Linear and Nonlinear Approaches	593
Jun-fang FAN and Zhong SU.	

A Large-Scale Device Collaborative Process Design Meta-Model And Case Study	601
Feng chen, Rong Xiaohui and Pan Deng.	
New H _∞ P Controllers Design for Networked Control System with Disturbance based on Asynchronous Dynamical System	609
Jihua wang, ling dong and yan bai.	
Research On Image Recognition Of Spores Based On Bp Neural Network ...	617
Li Yang, Zhang Xiuhua, Yi Jingtang, Li Xin	
Remote Monitoring System with GIS Searching & Orientation and Voice Guiding based on Google Earth	625
Huaiyu Xu, Yilai Xu, Xiaoyu Hou and Ruidan Su.	
Artificial Neural Networks Based Recognition Of Selected Palmprint Features	633
Adem Alpaslan ALTUN, Amir Nooraliei	
Improving Avatar Collision Detection Performance For Virtual Environment Applications	643
Norhaida M.Suaib, Abdullah Bade and Dzulkifli Mohamad.	
Dynamic Cloth Simulation With Fast Self-Collision Detection	651
Nur saadah mohd shapri, abdullah bade and daut daman.	
Frequency Hopping Spread Spectrum Transceiver Implementation Using Floating-Point Dsp	659
Hossam Ahmed, Abdel Halim Zekry, Adel ELHENNAWY and Ayman Hassan.	
E696 Problem-Based Learning in Teaching Formal Specifications.....	671
Roslina Sidek.	

ICACTE 2009 Session 6

An Expanded Web Service Model Based On QoS	679
Yi-qiang Li, Zhi-liang Zhu and Guo-qi Liu.	
Modeling And Reachability Analysis For A Single Intersection Based On Rectangular Hybrid Automata	687
Hongfeng li, guangxiu jiang and yangzhou chen.	
Robot Path Planning using Wavefront Approach with virtual hill	695
Amir nooraliei, Hamed Nooraliei	
Characterization Of Color Devices By Polynomial Regression	705
Sun bangyong, zhou shisheng, cao congjun and zheng yuanlin.	
Exploring The Potential Of Using Augmented Reality Approach In Cultural Heritage System	711
Zakiah noh, ajune wanis ismail and Mohd Shahrizal Sunar.	

An Automatic Speaker Recognition System	719
Samir AKROUF, Abbes Mehamel, Benhamouda Nacera and Mostefai Messaoud.	
The Applied Research Of Mobile Technology In Family Education About The Health Of The Elderly	729
Bing Jia, Shaochun Zhong, Tianyang Zheng, and Zhiyong Liu.	
Design, Simulation And Implementation Of Asymmetric Digital Subscriber Line Modem On Dsp Kit	737
Hossam Zayed, A.A.Zekry, Adel Ezat Elhenawy, Ayman M. Hassan	
Research On Model Of Waveform Selection In Cognitive Radar	747
Bin Wang, Jinkuan Wang, Xin Song And Dongmei Yan.	
Study of Fault Detection Device Based On DSP In Distribution Networks	755
He Hongjiang And Song Linxia.	
An Intelligent And Interactive Control System Based On Pda For Digital Home	763
Huaiyu Xu, Xiangxiang Yu, Ruidan Su, Jilong Kan, Hao Zhuang	
Some Results On The Minimal Covering Of Precomplete Sets In Partial Four- Valued Logic	771
Xiaoqiang Zhou.	
Determination Of Induction Motor Parameters By Differential Evolution Algorithm And Genetic Algorithms	777
Mehmet ?Unkas, Tahir Sag And Mustafa Aslan.	
Utilizing Information Extraction to Display Biographies on Google Earth	785
Huaiyu Xu, Heng Cai, Xiaoyu Hou, Yingbin Cao and Mo Chen.	
Condensation Method For Face Tracking Based On Features Fusion	793
Yong Zhang And Lan Li.	
Modeling of Boost-Phase Ground Based Interception Against Long and Mid Range Attacking Ballistic Missiles	801
Sami A.Mostafa	

ICACTE 2009 Session 7

Out-Of-Order Matrix Processor: Implementation And Performance Evaluation	809
Mostafa Soliman and Abdulmajid Al-Junaid.	
Research of Module-based Airplane Configuration Management Technology	817
Yu Yong, Muhammad Younus, Lu Hu, Fan Yuqing	
Robust Constrained Lscma In The Presence Of Signal Steering Vector Mis- matches	825
Xin Song, Jinkuan Wang, Bin Wang and Yinhuang Han.	

Evaluation For Cylindricity Errors Based On A Particle Swarm Optimization Algorithm	833
Ke Zhang.	
Intelligent Abs/Gps Integration For Land Vehicle Navigation	841
Hamed Banizaman, Ali Torab, Ali Akbar Safavi	
Modeling And Simulation Of Gate-Cathode Junction Of A Thyristor With Amplifying Gate And Emitter Shorts	851
Gihan Sayah, Abdel Halim A.Zekry	
On-Line A Predictive Model Of Cutting Force In Turning W?Th 3 Ax?S Accelerat?On Transducer Using Neural Network	859
Ilhan Asilt?Rk And Nihat Y?Lmaz.	
Distributed Patent Retrieval System Based on Nutch	867
Huaiyu Xu, Jun Ge, Xiaoyu Hou and Hao Zhuang.	
Object Reconstruction Based On Computer Stereo Vision Using Structured Light Projection	875
Lijun Li, Yingjie Ke, kaiyong jiang, Jing lin	
A User-Oriented Web Services Composition Based on Service Mapping Mechanism	883
Yiqiang Li, Yu Dai, Zhu Zhiliang, Zhang Bin	
Modelling and simulation of the prop control system of hydraulic support	891
Xin zhang, jianwu zhang, Qingliang Zeng, Chenglong Wang, Lei Wang	
Behavior Modeling in CGF Based on Finite State Machine and Production Rules	899
Lixia Liu	
4-bit Pipeline ADC for Monolithic Active Pixel Sensors	905
Ramy Agieb, Hassan El_Ghitany and Khaled Shehata.	
Towards A Multi-Agents Simulation Meta-Model For Manufacturing Systems	913
Boubetra Abdelhak, Mouhoub Nassreddine and Fares Nour el Houda.	
Study On Evaluation For Parallelism Errors Of Planar Lines With Ga Algorithms	921
Ke Zhang.	
Improvement of Session Authentication Protocol for Web Services	929
Tang Weidong; Li Qiang	
ICACTE 2009 Session 8	
Fastcrypto: Parallel Aes Pipelines Extension For General-Purpose Processors	937
Mostafa Soliman And Ghada Abozaid.	

Hybrid Cryptographic Scheme For Data Communication	945
Naziha M.AI-Aidroos, Marghny H.Mohamed And Mohamed A.Bamatraf.	
A Faster Feature Based Summarization System	955
Wael Zakaria, Yasser Kotb And Fayed Ghaleb.	
Robot Path Planning using Wavefront Approach with WEFO	963
Amir nooraliei, Sami A. Mostafa	
An Improved Power Diode Model Based on Finite Difference Method	973
Ahmed Shaker, Abelhalim Zekry, Omar A.Omar and Salah Gamal.	
Modeling user behavior for the collaborative Platform "Portail PERSEUS"	983
Josephine Kohlenberg and Mahendiran Prathaban.	
Identification of membrane protein interactions with an ensemble classifier ...	991
Peiyong Zhao and Yongsheng Ding.	
Re-factoring: A step towards improvement in Agile design Methods	999
Shilpa Bhalerao Reader, Devendra M.	
Analysis of reputation stability based on symbiosis in hierarchical Ad Hoc net- works	1005
Yao Yu, Lei Guo, Xingwei Wang, Yuhuai Peng, Yan Li	
Modeling Riverbed Scour Estimation Downstream Of Changzhou Reservoir	1011
Limin Xia and Wei Zhang.	
Research On Network Intrusion Detection Model Based On Ga-Rbf Neural Net- work	1015
Zhi-Guo Liu, Zhang Hai-Chun,	
A Gabor Filter-Based Feature Points Matching Approach	1021
Niu Lipi, Shi Dongxin, Yang Yingyun And Zhang Wenhui.	
An Extensive Unification Of Lambda Calculus And Reinforcement Learning	1029
Xu Wu	
Sip: Next Generation Packing Technology	1037
N.K.Shukla, Shilpi Birla	
A Novel Sensor Selection Algorithm In Sensor Network Tracking Based On Ahp And Fuzzy Control	1043
Jingjing Wu, Qingyang Song, Lei Guo, Xingwei Wang, Yuhuai Peng, Yan Li	
Process Industry Man-Machine Interface Design Method And Application Based On Mental Load	1049
Nan Xie, Lin Chen, Xiaowen Xie, Hengzhi Fang And Zhongze Xie.	
Modeling Spatial Structure Of Urban Pole-Axis System By Fractal Theory	1055
Lina Meng, Xinqi Zheng, Lu Zhao And Xin Yang.	

Table of Contents Volume 2

ICACTE 2009 Session 9

A Efficient Image Matching Based on SIFT	1063
Xin-feng Liu, MA She-Xiang	
Activity Based Use Case Structure Meta-Model	1071
Changjiang Wei, Ma Lei	
Trainable, Bayesian Symmetries for Reinforcement Learning	1079
Qingmei Lu	
Signal Detection in ATS under Low SNR Circumstance	1087
Geng Xiao and Wang Chenghua.	
Effective Content based Video Retrieval System based on Query Clip	1095
T.N.Shanmugam, Priya Rajendran	
An Efficient Algorithm for Mining Causality Least Pattern	1103
Zailani Abdullah, Siti Zulaikha Jaafar, Mustafa Mat Deris	
Application and prediction stage of breast cancer with multinomial logistic regression	1111
Doungporn Niyomua, Krieng Kitbumrungrat	
New Series and Parallel Active Power Filter For Small Non Linear Loads and Computers Loads Simulation and Experimental Work	1123
Amr El-Zawawi, Mohammed Yousef Tarnini	
Research on Image Deformation Matching Algorithm Based on the Gravitational Field of Control Points	1135
Yu Song, Yanyan Chen, Wenhong Wang	
Pattern Recognition of Geoagent in RS image	1141
HongHai Kuang	
An Efficient System for Searching Frequently Lost Objects Using Binary Detection Sensor	1145
Syed Ishtiaque Ahmed	
Vehicle Moving Status Classification in Vehicular Networks based on Data Fusion	1155
Lin Chen, Shutao Wei and Linxiang Shi	
Buffer Management in Cellular IP Networks using GA	1163
Mohammad Anbar, D.P.Vidyarthi	
3D Chip Integration with Through Silicon-Vias (TSVs)	1175
Shilpi Birla, Neeraj Kr.Shukla, R.K.Singh	

A Link-Based Morpho-Syntactic Parsing System for Arabic	1181
Ahmed Sadek, Mohamed Sakr, Mohamad Kouta, Abdo Al-Raghi	
Research and Implementation of Vehicle Detection in Intelligent Transportation System	1189
Guo Zhengong, Li Jie	

ICACTE 2009 Session 10

Study on the Combinational Algorithm for Seabed Terrain Elevation Matching	1197
Jiang Fan, Wu Yi-meng, Zhang Zhen-shan, Lei Liangshui	
Trendz: Identifying Online Job Seekers' Behavior with respect to Global Slump	1203
Abdulaziz S.Almazyad, Zafar Iqbal Khan, Mohammad Khubeb Siddiqui	
Research on An improved Association Rules Data Mining Algorithm and its Application	1211
Cheng Ping-guang, Chen Yu, Yi Xia	
The Control of pH During the Process of Zinc Hydrometallurgy by Neural Network Adaptive PID Control	1221
He Xian-zhong, Wang Jue	
Architecting Web Services Using Constant-Time Theory	1229
Weiyang Zhang, Hui Lv	
Contrasting Neural Networks and 802.11 Mesh Networks	1237
Jun Chen, Xionggang Tu	
One Three-point Authentication Protocol base on Kerberos Protocol	1245
Ling Yun, Jin Yun-Shuai, Zhou Zong-He	
Accounting and Digital Technology Building a Decision Matrix for Developing a Digital Accounting System	1253
Edris Heidari Darani	
Network Video Monitor Based on Embedded Linux and VC++	1259
Li Bing, Sun JianPing	
Self-Learning, Highly-Available Methodologies for Byzantine Fault Tolerance	1267
Yunyue Zhu, Xiaoxu Zhao	
Synthesizing Red-Black Trees and Hash Tables	1275
ChangYu Du, Xiaoqiang Chen	
Visualizing Information Retrieval Systems and Scheme with Dyadic Fund ...	1283
Huanping Hong, Qiang Xiao	
A Methodology for the Analysis of Congestion Control	1293
Guiying Su	

IBC: Individual Based Choice	1301
Guillermo Garcia, Wilmer Pereira, Alejandro Lujan, Rosaura Paladino	

ICACTE 2009 Session 11

Vehicle Routing Problem with Time Windows Based on Improved Differential Evolution Algorithm	1311
Jian-wen Wu, Yuan-biao Zhang, Chuan He	
The Application Analysis and Optimization of A* Algorithm in the Game Map Routing	1321
Guo Xiaoli, Feng Li, Guo Ping	
A Fuzzy-Watershed Image Segmentation of Two-dimensional Gel Images ..	1325
Shaheera Rashwan	
The Research on the Workflow Process Modeling based on Petri-net	1331
Tang Shao-xun, Luo Xue-shan, Yi Xian-qing	
Research in Cultural Algorithm Optimization Based On the adaptive Fuzzy Controller	1337
Feng Wang, Xue-ying Zhang	
Facial Expression Feature Extraction Based on Integral Image	1345
Lin Qing, Rui-rui Hu, Yong-zhao Zhan	
Finite Element Analysis for the Frame of High Pressure Grinding Roll	1353
Nuo Bao, Fang Zhao, Chang-qing Gao, Xiang-bo Ze	
Virtual design Conception of Fatigue Specimen	1359
ZHAO Huairui, LI Qiang, Wang Shengwu, Zhu ning	
Research on A Novel Grey PID Controller	1365
Shi Shuang-shuang, Wang Song	
A Render Algorithm of Flower Plants using Bezier Surface and L-system	1373
Jiang Lin, Guo Xian-Chun	
Improved DES Algorithm Based On Variable Time Data Permutation	1381
Karim M.A.Abd Elatif, El-Sayed A.M.Hasaneen and Hesham F.A.Hamed	
In-vehicle Information System based on Linux with IPv6	1389
Liangdong Qu, Yanheng Liu, Da Wei, Xuegang Yu	
The Effects of Signal Mappings to the Performance of A BICM-ID System based on 8PSK Constellation Operating over a Rayleigh Fading Channel	1397
S.Benmahmoud, A.Djebbari, A.Taleb-Ahmed	
Information Processing Method of the Order of Variances	1405
LI Weiguo, Zhang Yuanyuan	
Research on E-government Information Security Problems and Countermeasures	1413
He Huanhuan	

The Impact of Client-Server Technology on Cyber informatics	1421
Changwei Huang, Xishan Jin	
Parallel Design and Implementation for Sequence Alignment in Bioinformatics	1429
Chang-xin Song	

ICACTE 2009 Session 12

Scalability of Abinit on BlueGene/L for Identifying the Band Structure for Nano- technology Materials	1437
Ahmed Sayed, Ali El-Moursy, Hisham El-Shishiny	
The Capplication of QFD in Software Requirements based on the SECI	1445
Wei Xiong, Zhixin Wu	
E-Goverment System Research Based on Bank of Villages and Towns	1451
Ma Yubo, Hu Shengde	
Evaluating Cognitive Complexity Measure of Processes with WEYUKER Proper- ties	1457
Zhao Gangan	
Construction Industry Long-term Evolution and Its Policy Condition	1465
Wang Yan, Zhang Fei-lian	
Arithmetic Model Research of IDS Alarm Controlling	1471
Guo Xiaoli, Feng Li, Guo Ping	
Sznajd Social Model on Weighted Network with Improved Rules	1475
Qingqing Chen, Yuanbiao Zhang, Sha Sun	
A Study of Knowledge Management's Functions in Ecommerce Implementation	1483
Zhu Mingqiang, He Yabo	
Customer Demand Visual Clustering use of Self-Organizing Maps	1491
Du Hui	
Design and Implementation of a Defense Mechanism for SQL Injection Attack	1499
Ye Du, Jieyuan Li, Jieyuan Li, CHENG Li	
A Novel Particle Swarm Optimization for Course Scheduling with Multiple Con- straints	1507
Der-Fang Shiau, Shih-Tang Lo, Pi-Chung Hsu	
ERP Systems and Dealing with Resistance to Change	1517
Mokhtar Mohammed Ghilan	
The Study of Evaluation in Analysis of Prepayment and Default Behaviour–Appli- cation of Discriminant Analysis	1523
Po-Sheng Ko, Shuofen Hsu, Cheng-Chung Wu	

Research on the Application of Web Mining in E-Learning System	1529
Long Wang, Yanheng Liu, Liangdong Qu	
A New Updating Algorithm for Blind Multiuser Detection in Impulsive Noise	1535
K.Vidyullatha, R.Nirmaladevi, T.Anil Kumar, K.Kishan Rao	
Fostering IT-based Innovations through Innovation-Conducive IT Project Portfolio Management	1543
Michael Amberg, Michael Lang	
Analysis and Study of Library Information Based on Clustering Algorithm	1549
Chang-xin Song	
Design of Real-time Monitoring Software Model Based on Pattern Matching and Data Compression	1557
Yin Zhixi, Zhen Guoyong	
Research on Grid Decomposition Algorithm for Casting Simulation Based on Boundary Cut Grid	1565
Mao Hongkui, Xue Li, Mao Weimin	

ICACTE 2009 Session 13

Register Stack with Concurrent Error Detection Capability	1573
H.Abugharsa, K.Negrat, Ali Maamar	
The Realization of GPRS Inbuilt Protocol Stack in Mobile Terminal	1579
Guan Zongqi, Shen Wei, Chen Danjiang	
The Application of Dynamic QFD in Software Requirements Change Manage- ment	1585
Wei Xiong, Zhixin Wu	
Novel MicroRNA Prediction in AMPV genome	1591
Chi Guirong	
Nonlinear Analysis of Daily Temperature Data	1599
Pritha Das	
Character image Classification Based on Spiking Neural Network	1607
Hesham Amin	
A Probabilistic Model Mapping-based Event Detection Approach over Uncertain Sensor Data	1615
Mo Chen, Ge Yu, Chuanwen Li, Bonghee Hong	
Cutting Tool Wear Monitoring applying Support Vector Machines and Genetic Algorithms	1623
Ramzi FAYAD	
Research of a Novel Intelligent Safety Device	1631
Chen Dan-jiang, Ye Tao, Xiao Zhi-hong, Zhang Qiao-wen	

Solving Nonlinear Programming Problems via Advanced Simulated Annealing	1637
Jui-Yu Wu, Chi-Jie Lu and Shi-chang Wang	
A Conceptual Framework for Instructional Design in Blended Learning Environment	1645
Tsang-yao Chen, Yueh-Hsia Chang, Chihli Hung	
Optimized Watermarking Algorithm Based on the Zero Tree Structure of Wavelet Transform	1655
Gao Shangbing	
A Method for Search Engine Retrieval System based on Hybrid Trie-Inverted File	1663
Hongwei Yang, Hua Zhou	
Finite Impulse Response Neural Networks with Applications in Speed Control of DC Motor Drive	1669
A. S. Sallam, H.A. Mohamed	
Study on the Computer Multimedia Assisted Physical Education Teaching ..	1681
LU Jing-rong	
University Decision System Based on Data Mining	1699
Chang Haifeng	

ICACTE 2009 Session 14

The Investigation of the Factors Influencing Teachers' Attitudes to Use ICT into the Teaching Innovation	1707
Jen-Chia Chang, Ya-Ling Tu	
Intelligent MapWiki Using Ontology Technologies	1715
I-Ching Hsu, Yuan Kwei Tzeng, Bo-Yen Chou, Der-Chen Huang	
A Discrete Version of Particle Swarm Optimization for Distributed System Task Assignment Problem	1723
Shih-Tang Lo, Der-Fang Shiau, Ruey-Maw Chen, Yi-Chun Lin	
Computer Network Management System Research and Implementation	1733
Ke Ma, Changxin Song	
A New Approach for Computing the Support and Confidence when Mining for Association Rules	1741
Abdallah Alashqur	
Information Literacy Training of Public Libraries: A Case from Canada	1749
Horng-Ji Lai	
An Integrated Dynamic Resource Model of ICT Adoption, Business Process Re-engineering and Performance	1759
Ya-Ching Lee, Pin-Yu Chu, Hsien-Lee Tseng	

Analysis and Design of High Speed Optical Transceiver Module	1767
Tao Peng, Chaoyan Zhou	
An Analysis of Adult Learning Types and Characteristics – An Example of English Course Learning at a Vocational Continuing School in Taiwan	1773
Lin-Yu Wen, Li-Chen Chen, Wen-Ching Lee	
Feature based Dynamic Time Warping	1785
Ying Xie, Bryan Wiltgen	
Influence of Rendering Intents on the Gamut Volume and the Visual Evaluations in Digital Proofing	1793
Mao-hai LIN, Shi-sheng Zhou, Mao-hai Lin, Yun-hui Luo	
Knowledge Discovery – Semantic Web	1799
S.Kalarani, G.V.Uma Asst	
A Model Checker based Approach of Attack Path Enumeration for Network Security Management	1809
Atig Bagchi and S K Ghosh.	
A Novel Approach for IT Governance	1817
Samira Ghayekhloo, Ramin Nassiri, G. Latif Shabgahi	
A Cluster-Based Semantic Web Services Discovery and Classification	1825
Hesham Arafat Ali and Tamer Ahmed Farrag.	
Web Performance Testing System Research and Implementation	1835
Xiao qiang Peng, Hong Guo, Zegui Ying	
Contextual Interpretation Method Related on Reputation	1843
Miho Itoh	
A Three-Tier Survey Information Systems and Interactive Applications Framework for Opinion Acquisition	1855
Fang-Ming Hsu And Chao-Hung Yu	

ICACTE 2009 Session 15

Characterization of Ultra Wideband Dielectric Loaded T-Shaped Monopole Antenna for Wireless Sensor Networks	1863
Saswati Ghosh, Ajay Chakrabarty	
An Optimized Term Weights Based Clustering for Bilingual Parallel	1871
Rayner Alfred	
A Web Service Recommender System using User Ontology	1883
Sajjad Haj Shavalady, Mehran Mohsenzadeh, Azadeh Ghari Neiat, Fariborz Mahmoodi	
Design and Programming of UWB MAC Using SDL	1891
Yaohui Wu, Yining Liu, Tao Peng, Yu Cai	
Design of Network Control Communication System based on Embedded ARM System	1899
He Hui-min, Zang Wei-hua, Zhao Pei-hua	

Research of One Loose-Coupling Distributed Bridges Health Monitoring System	1907
Pengfei Shao, Xuan Zhang, Peng Tao	
Research and Implementation of Signal Detection Algorithm in MIMO System	1915
Wang Jing, Li Fangping, He Huimin	
Design and Implementation of CRM System based on J2EE	1925
Ji Lianghao	
Design and Implementation of the Embedded WinCE Software Platform Drive	1933
Xu Liyong, Dong Yanrong, Gu Liwei, Li Jianguo	
Comparative Analysis of the Performance of Operator Scheduling Strategies with the QoS Requirements for DSMSs	1941
Mohammed Badawy	
Semantic Web Discovery Model Research and Implementation	1949
Gao Jingwei, Li Jian-guo, Xu Li-yong	
Remote-control Household Devices using Telephone Network	1959
Xiao Zhi-hong, Zhang Ze xin, Chen Dan-jiang	
Reservoir Water Level Detection Based on Optical Fiber Temperature Sensor	1965
Liu Gaoping, Zheng Zihan, Peng Tao	
TV Control System Based On I2C Bus	1973
Zhen Ming-hua, Ni Liang Liang, Chen Dan-jiang	
Design of a Kind of Personalized Mail Filtering System	1981
Peng Jian, Ren Xian	
Research on a New Type of Adaptive Fuzzy Clustering Algorithm	1989
Lingxia Liu, Song Qiang	