

# ICENT 2010 Contents

Organizing Committees	iv
Preface	v
<b>ICENT 2010</b>	
Development and Continuation of Foreign Vocational Education Curriculum Models in Comparative Perspective <i>Yongyong Zhu</i>	1
Program Design of Financial Management Skill System Based on Evaluation <i>Yongyong Zhu</i>	5
Research of Economic Information Management Skill Evaluation Viewed on Working Systematization <i>Yongyong Zhu</i>	8
Anisotropic Diffusion Based Weed Classifier <i>Shujaat Ali Khan, Abdul Muhamin Naeem, Owais Adnan, Attaullah Khan</i>	11
The Development of eLearning Model for Higher Education in Thailand <i>Kultida Saowapakpongchai</i>	16
Development of a Web Accessibility Model for Visually-Impaired Students on eLearning Websites <i>Pisit Prougestaporn</i>	20
A Method of Keywords Selection Evaluation Based on Search Volume <i>Jing-Guang Gao, Guoqiu Yu, Lei Tao</i>	25
Impact of Non Academic Websites Usage in Students Academic Performance (A Case Study) <i>Rozita Jamili Oskouei, B.d Chaudhary</i>	29
Integrated Project Based Learning in Software Engineering Education <i>Sohan Singh Yadav, Jianbing Xiahou</i>	34
Devices for Developing Course Video Resources on the Basis Low Energy Consumption <i>Yongyi Chen</i>	37
Relationship Between Academic Performance and Usage Pattern of Non-Academic Websites by Gender Group <i>Rozita Jamili Oskouei, B.D chaudhary</i>	42
Online Consumer-to-Consumer Market in China – A study of Taobao <i>Yu Xu, Panxiang Yue</i>	46
Consumer e-commerce Psychology <i>Zhibin Chen</i>	50
Study on the order of Taylor expansion with applications <i>sheng ding</i>	54
An Improved Self-learning Model Based on Network Environment <i>Shen zihao, Wang hui</i>	58
Study on Design Strategy of Brand Culture in Art Education <i>Zhu Lili</i>	62
Application of a Blended E-learning Method in Designing a Training Program for Developing Professional Competences of University Teachers: e-CBT Model <i>Wen, Ling-Yu, Hsu, Shun-Fa, Hsu, Shun-Fa, Wu, Jun-Yen</i>	66

An Automatic Semantic Web Service Composition Approach based on PDDL <i>Wang Xing , Zhang Wenpeng</i>	71
The Design and Analysis of Semantic Web-based Ontology Mapping Model <i>Li Xueyong, Wang Quanrui, Wang Shunping, Lv Jinna</i>	75
Customer Value Based On Data Mining <i>GAO JIE</i>	79
Research on Multi-Object Clonal Genetic Algorithm for the 0-1 knapsack <i>Wang Xing , Zhang Wenpeng</i>	82
Domain Concept Extraction Algorithm Based on Semantic Web Ontology Learning <i>Li Xueyong , Shan Yongqiang , Zhu yanli,Wang Quanrui</i>	86
On the Culture Teaching of College English from the Cognitive Perspective <i>Long Shiwen, Xia Huan</i>	90
An Improved Resource Scheduling Approach Using Job Grouping strategy in Grid Computing <i>Raksha Sharma, Vishnu Kant Soni, Manoj Kumar Mishra</i>	94
On Communication Platform for Teaching Based on Virtual Instrument <i>Li Huan, Ren Bo</i>	97
Evaluating Service Quality of the Subject Librarian Based on Fuzzy Variable <i>Huaqing Cao</i>	101
Demonstration Software for Digital Image Processing <i>Kun Zou, Yueqiao Li and Chunjian Deng</i>	106
The Cross Layer Analysis – Modification of Contention and Congestion Window Size <i>S.Barath Balaji,R.Hariharan,D.Vydeki,</i>	111
Constitution and optimization of the car industry integrated supply chain <i>Li rui</i>	116
Use of Advanced Computer-aided Biomodels in Practical Orthopaedic Education <i>Xing Ma, Xiaoming Wu, Yaoping Wu, Jian Liu, Long Sun</i>	120
A Communication Platform for Teaching Based on LabVIEW <i>Ren Bo , Li Huan</i>	124
Exploration on Personnel Training for Regional Game Industry Development <i>Xiang Xu, Kun Zou</i>	128
Load Balance Controlling Algorithm On Unstructured P2P Network <i>Xu Lijun, Li Xueyong, Gao Guohong</i>	131
Intelligent Video Monitoring System based on 3G <i>Han Yun,Pan Ai hua,Zheng Shang zhi</i>	135
A Semantic Web Services Discovery Mechanism Design and Implementation Based on OWL Ontology <i>Zhao Yun, Si Huayou, Qi Hengnian, Ni Yulin</i>	139
Digital tools for material selection <i>Yan-fang Yin,</i>	144
Implementation of the load balancing for multiple VPN server <i>Zhang zhe</i>	147
Weakly Complementary Cycles in a Class of Multipartite Tournaments	151

<i>Zhihong He,</i>	
The Application and Research of Spaceflight Tracking and Controlling Software Testing Process New Model	155
<i>Li bing Guo</i>	
Improved Method to Compress JPEG Based on Patent	159
<i>Hong Li, Wang Wen-yan</i>	
Pid- fuzzy control research on hydraulic semi-active suspension system of car	163
<i>Tang feng lin</i>	
The Application Study of Middleware Based on HL7 in Multi-Parameter Monitor System	167
<i>Tang Jianqing, Zou Guoxia</i>	
Research of GPS/DR Integrated Position System in Position of Navigation Marks	170
<i>Dan Li, Xiao-kui Ren</i>	
Some Classical Constructive Neural Networks and their New Developments	174
<i>Zhen Li, Guojian Cheng, Xinjian Qiang</i>	
Study on Computer Systems Framework of Bridge Maintenance and Strengthening	179
<i>YANG Jun</i>	
Design for Dual-front Axle Steering Angle of the Heavy Truck	185
<i>Mu Chunyan, Yu Jingnuo, Yang Yuyan, Wu Kai</i>	
Simulation Heat Transmission Mechanism of Insulation Material by Finite Element Method	188
<i>Guo Aihong, Niu Fusheng</i>	
Culture Input in College English Teaching in China	192
<i>Ma Yan, Wang Deli</i>	
Exploration and Research on the Education Method of College Students' Information Literacy	195
<i>Wu Peng</i>	
Exploration and Research on Teaching of Basic Computer Course in Higher Vocational College	198
<i>Wu Peng</i>	
Study of economic benefit e0valuation based on integrity management mode	201
<i>Xiaolin Ma</i>	
Importance of Information Technology Education Course in the Process of Traning Information Literacy	205
<i>Wu Peng, Xie Jingjing</i>	
Thoughts and Suggestions on the Development of Information Literacy Education	208
<i>Wu Peng</i>	
Study of sports culture ecology in Xinjiang Ethnic Groups	211
<i>Tie Li</i>	
The Research of GPS Localization and Map-Matching Method	215
<i>Pan Xi, Shun Yang</i>	
Least-squares Finite Element for Nonlinear MHD Equations	218
<i>Lili Li</i>	
A Novel Intelligent Meta Search Algorithm for WWW-based Model	222
<i>Zhao Yanli, Chen Xiaoyu</i>	
Teaching Research and Practice of Basic Computer Course for Postgraduates	225

<i>Wu Peng</i>	
Exact Traveling Wave Solution For Kadomtsev-Petviashvili Equation <i>Feng Xu , Qinghua Feng</i>	228
Exact Traveling Wave Solution For NLS+ Equation <i>Hongling Fan , Qinghua Feng</i>	231
Development of Multichannel Parameter Test System in Wood Drying Kiln Based on DSP <i>Jufeng Xue , Dongming Fan</i>	234
Re-ranking algorithm using clustering and relevance feedback for image retrieval <i>ZHANG Xu-bo, PENG Jin-ye</i>	237
Study on Control System for Vice-steering Device of Training Car <i>Fuzhong Wang, Xiaoli Liu</i>	240
Design of the Web-Based Monitoring System Architecture for Geomagnetically Induced Current <i>jian Wang , ying Wang ,lian-guang Liu</i>	244
Five components automobile exhaust measurement system <i>Ba Fengli, Wan Long</i>	248
A new predictive PID control algorithm <i>Wang Zi-yang , Zhao Zhong-xin, Qin Yong , Jia Li-min</i>	251
Using New Designed NLG Gate for the Realization of Four-bit Reversible Numerical Comparator <i>Lihui Ni, Zhijin Guan, Xiaoyu Dai, Wenjuan Li</i>	254
Finite Element Modeling of Carbon Fiber Reinforced Polymer Pressure Vessel <i>Wang Yingjun, Sun Minqing, Zheng Zixiong, Zhu Sirong</i>	259
An Enterprise Flexible Object-Relational Mapping Framework based on Metadata and Property-Separation Storage <i>TANG Peng, FANG Wei, SI Hai-ping, CAO Yong-sheng</i>	263
A new method of smoke simulation <i>Ding Wanning, Jia Limin, Jiao Hongqiang</i>	267
Developing a Virtual Network Environment for Analyzing Malicious Network Behavior <i>Qi-Guang Miao, Hui-Liu, Xian-Guo Zhang, Zhong-Lin Liu, Yuan-Zhu Yang, Yun-Wang, Yin-Cao</i>	271
Naïve Bayes Associative Classification of Mammographic Data <i>Benaki Lairenjam , Siri krishan Wasan</i>	276
Learning Algorithm of Parameters about Fuzzy Membership Functions Based on the RBF Neural Network <i>Li Guang-yu, Li Yan-xin, Li Wen, Wu Di</i>	282
The Low-power Design and Application of Single Chip System <i>Xuening XING , Shijin JIANG , Juan ZHANG</i>	287
Design and Development On VxWorks-based GIC Monitoring System <i>qing Liu, ying Wang, lian-guang Liu</i>	290
Study and Application of Web Data Mining Based on XML <i>Pengwei Zhang, Jingxia Chen</i>	294
The Analysis of the Solitary Wave Evolutional Characters with Matlab <i>Zhengren Wu, Liu Mei</i>	298
Security Analysis of VLAN-based Virtual Desktop Infrastructure	301

<i>Jiajia Liu, Wuwen Lai</i>	
A Study of Ship Integrated Navigation System Risk Assessment Based on Fuzzy Analytic Hierarchy Process <i>Li Hong-bo, Hao Yan-ling, YU Hai-yang</i>	305
Project Trend on Coastal Wetland Change and Prediction Tupu Models <i>Jingyi-Tian , Yun-Wang</i>	309
Computer-Mediated Collaborative Learning in Management Education <i>Wang Chang-feng</i>	314
Hypersonic Vehicle Wing-body Joint Location Design Optimization Basing on Hybrid Genetic Algorithm <i>Gong Weijie , Tang shuo</i>	318
The Application of UMA Technology in Communication Network Teaching <i>Liang Yang, Huabin Wang</i>	323
Solid state culture for immobilization of Bacillus marinus cells bound intracellular lipase within biomass support particles <i>YE Shuhong , Mu Guangqing, WANG Jihui*, Wan Huiping, Ren Xuehui , Zhang Yuanxin</i>	327
Research and Design of 1553B Protocol Bus Control Unit <i>Liang Zhijian</i>	330
Research on Domain Ontology Semi-automatic Construction Model towards Chinese Text <i>Liu Ning, Li Guanyu, Zhang Yuanfa</i>	334
The Study of Expert System in Rolling Bearing Faults Diagnosis <i>Xu tongle , Pei xincai, Wei xiuting</i>	338
CoEditor:An Edit System for Group Cooperative Writing <i>LIU Yu-Xiao, ZHOU Rui-Jin, HU Meng-Jie</i>	342
PaaS: A Revolution for Information Technology Platforms <i>Chengtong Lv, Qing Li, Zhou Lei,Junjie Peng, Wu Zhang, Tingting Wang</i>	346
Analysis of the Effect of Daqu's Physical and Chemical Parameters on Liquor Production Yield Using Rough Sets and Fuzzy Cluster <i>Xingbo Sun,Xiuhua Tang, Xuerong Tao, Ming Hao</i>	350
Design and Development on Internet-based Information Filtering System <i>Wang Chun hong, Zhang Min</i>	354
Application Research of a Statistical Regression Algorithm in the IVR System <i>Chang-Xing Qi, Jie Liu, Hang Li</i>	358
Rough Data and Applications of Rough Data Law <i>Lu Changjing, Qiu Jinming, Shi Kaiquan</i>	361
A Class of Similarity Measures between Vague Sets and Its Applications to Pattern Recognition <i>FuJin Zhang, Hongxu Wang</i>	366
A Dynamic Scheduling Model Oriented to Flexible Production <i>XUE Dongjuan</i>	369
Analysis of Single-Phase Pulsating-Flow Hydraulic Control System <i>Zeng Hui, Zhao Jingyi, Wang Zhifeng, Huang Xiao dong</i>	373
Reliability Analysis of Certain Aircraft's Hydraulic Pipe	377

<i>HAN Yanbin, BAI Guangchen, LI Xiaoying</i>	
A Research on Cloud Computing Based on IEEE1451	381
<i>Jian Wang, Peng Liu</i>	
Drive Design for Ship GPS Navigation Equipment Based on Linux Operating System	384
<i>Pan hongyan, He hong,Jia hengtian</i>	
Prediction of Fiber Diameter on Spunbonding Fabric Using Neural Network and Physical Model	389
<i>Zhao Bo</i>	
Predicting the Hairiness of Cotton Yarn in Winding Process	393
<i>Zhao Bo</i>	
Development of control system of automatic leaf spring end eye forming machine	397
<i>Suling Li, Junying Liu, Guangfei Liu</i>	
The Design of Disabled People Assistant	402
<i>Dang Yuanyi</i>	
Influence of SMAX on Bandwidth Utilization for ControlNet	406
<i>Liu Yunjing, Wang Fengwen</i>	
Research of Software Protection	410
<i>Tang Jiutao, Lin Guoyuan</i>	
Research on a distributed intelligent framework based on semantics	414
<i>Jian-Guo Jiang , Rui-Gang Guo , Zhong-Xu Wang , Qiu-Zhi Chen</i>	
Warfighting Simulation System for System Effectiveness Analysis of Hypersonic Cruise Missile	418
<i>Guotong Sun, Shuo Tang</i>	
Research on the detecting system of distributed nodes based on RS-485 bus	422
<i>Bai Li, Liu Mingjie, Li Xiaofeng, Zuo Di</i>	
A Flexible Computer Based Assessment System that Uses Flash Disk	426
<i>Li Li , Li Xiuhua, Wang Qiulan</i>	
Dynamic Analysis of Forest Biomass in Changbai Mountain	430
<i>Xiange CAO, Jinling YANG, Wenyi FAN,Xianmi CAO</i>	
The Method of Cluster and Entropy Apply in City Distribution Center Location	433
<i>LAN Yu-hua, LI Yi-song</i>	
Stiffness Analysis of Pre-loaded Hollow Cylindrical Roller Bearings based on ABAQUS	438
<i>Yankui Liu ,Tianmin Guan,Yangang Wei</i>	
Analysis on the related factors in sports tourism participation of College students	441
<i>Ping Wang, Qingxia Guo</i>	
Finite Element Simulation of Machining of Incoloy 907 with Thermodynamical Constitutive Equation	445
<i>Fang Shao</i>	
Remaining Fingerprint Segmentation Based On Convex Hull Model	449
<i>Wang Feng</i>	
An Efficient Ad Hoc On-Demand Distance Vector Routing Protocol	454
<i>Feng Xian, Jianzhi Wang</i>	
The Process of Designing and Developing a Romanised Mandarin Web-based Instruction on ISD Methodology for Non-native Learners in Malaysia	459

<i>Lim Soo Giap, Ong Sheau Fen, Mah Boon Yih</i>	
An Identity-based Signature Scheme with Public Key Recovery <i>Jing Yang, Jiande Zheng, Zhibin Xu, Weidao Zhang</i>	463
Teaching Software Design of Particles Size Measurement with Microscope Image <i>Dou Zhenhai, WANG Yajing, Chen Wengang</i>	467
Multimedia Courseware Design of Real-time Computing Power Based on Powerpoint and MATLAB <i>Dou Zhenhai, WANG Yajing, Chen Wengang</i>	470
An Application Interactive Platform Integrating Applications with OpenAPI Into Campus Network <i>Lei Dongyu, Luo Nianlong</i>	473
Weighted Motion Vectors of double Candidate Blocks Based Temporal Error Concealment Method for Video Transmission over Wireless Network <i>Mingjing Ai, Qixing Jiang</i>	478
A secure method on a routing protocol for Ad hoc networks <i>M. Imani, M.E.Rajabi, M. Taheri, M.Naderi</i>	482
Vulnerabilities in network layer at Wireless Mesh Networks (WMNs) <i>M. Imani, M.E.Rajabi, M. Taheri, M.Naderi</i>	487
Mission Assignment Approach of Team Service Robots based on Evolutionary Algorithm <i>Leina Shi, Lingling Si, Miaomiao Wang, Ning Zhang</i>	493
A Novel Self-organizing Quantum Evolutionary Algorithm for Multi-objective Optimization <i>Lingling Si ; Leina Shi ; Yanan Wang</i>	499
Fault Management of Computer Networks based on Probe Station Selection Algorithms <i>Yongjin Liu ;Yanan Wang ; Fangping Li</i>	504
The Study on Security Issues in Imprecise Databases based on Rough Set Theory <i>Yanan Wang, Jinge San, Lingling Si, Guoli Yu</i>	509
A Novel Learning Algorithm Inspired by the concept of DNA Sequence in Biological Systemsy <i>Dongmei Lin ; Guojie Yu ; Haiyun Qiao</i>	513
A Software Solution for a Mathematical Model of Professor Efficacy Parameters <i>Haris Balta, Adil Joldic, Alsa Cvitkovic, Ajla Djonko, Djenan Heric</i>	518
A Mobile Wireless Sensor Networks Prediction Algorithm based on Clustering <i>Gao Guohong ,Wang Xing2 ,Miao Guoyi ,Wang Quanrui,</i>	522
The Relations and Interactions of E-Government and E-Commerce <i>Ke HUANG</i>	527
Exploration on Management Model and Operating Mechanism of Multi-campus University in China <i>Hong-Mei Jin, Shu-Ming Wang</i>	531
Information Technology Training in Translator Professional Education <i>Wenxin XIONG</i>	535
Family Gene Based Cloud Trust Model <i>TieFang Wang , BaoSheng Ye, YunWen Li, Yi Yang</i>	540
An Efficient Heuristic Control Algorithm for Wireless Sensor Networks <i>Lu Xiangqing ,TianYan</i>	545
A Load Balancing Method Based on Genetic Clonal Annealing Strategy in Grid Environments	549

*Zhang Wenpeng, Liu Hongzhao*

Optimal Model and Non-linear Rectification Method Based on Annealing-inspired Genetic Algorithm in Sensors <i>Wang Jianfang</i>	553
Research on gompertz curve model used for mobile user growth <i>Jin Tao</i>	557
Next Generation Network Design and Capacity Dimensioning <i>Ali Manea Alsaih, Aklan Almughales</i>	561
A method to improve the management of multimedia classrooms <i>Cheng Hongwei, Zhang Damin</i>	567
Application of Knowledge Management in Public Administration <i>Tianyong Zhang</i>	572
Agile Methodology in Software Development (SMEs) of Pakistan Software Industry for Successful Software Projects (CMM Framework) <i>Muhammad Ishfaq Khan, Muzaffar Ali Qureshi and Qaisar Abbas Abbas</i>	576
Author Index	ix