International Conference on Future Computer Supported Education 2012

IERI Procedia Volume 2

Seoul, South Korea 22-23 August 2012

ISBN: 978-1-63266-351-1

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© by Elsevier B.V. All rights reserved.

Printed by Curran Associates, Inc. (2014)

For permission requests, please contact Elsevier B.V. at the address below.

Elsevier B.V. Radarweg 29 Amsterdam 1043 NX The Netherlands

Phone: +31 20 485 3911 Fax: +31 20 485 2457

http://www.elsevierpublishingsolutions.com/contact.asp

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA Phone: 845 758 0400

Phone: 845-758-0400 Fax: 845-758-2634

Email: curran@proceedings.com Web: www.proceedings.com

TABLE OF CONTENTS

Preface	1
Garry Lee	
Computer-Aided Value-Assessment Model: Review for Bilingual Teaching Courses Quantitative	
Analysis	2
Quan-yin Zhu, Yun-yang Yan, Cheng-jie Xu, Ying Jin	
School Bus Problem and its Algorithm	8
Jian-jun Zhang, Yue-guang Li	10
Development and Characteristic of Digital Library as a Library Branch	
Research and Practice on "Triple-driven" Based Software Development Practical Teaching System	18
Research and Practice on CDIO-based Application-oriented Practical Teaching System of Computer Major	24
Guo Lingling, Tang Guowei, Fu Yu, Li Jinghui, Zhao Wanping	
Creative Thinking for Picture Book Creation	30
A Study of Creative Thinking for Children's Picture Book Creation	36
The Study of DC Metadata Application in the Library Database Construction of Gansu Normal	
College for Nationalities Jing-xing Fan	43
An Exploration of the Model of "Stage" Teaching the Anglo-American Literature in the Network	
Environment	49
Liang Yingjun	
Comparative Analysis of E-learning: Australian Context	55
Design of the Remote Video Monitoring System Platform	62
Lian Pan, Wei Wang	2
Trustable MHT Node Identifying Scheme in DTN Lin Zhang, Shuwei Qiu, Jian Huang	69
On the Construction of Acceptable Type of Teacher-student Relationship in Higher Vocational	
College	77
The Application of Data Provenance in Online Informal Learning Environment	83
Guo Ying, Zhang Bin, Zhang Cuiling Research of Program Design Course's Practice Mode Bases on Computing Ability Training	90
Junrui Liu, Xuefeng Jiang, Chenglie Du	69
The Exploration of CISA Mode	97
Tao Jin, Yuan Chen, Yun Zhao	
A Novel Principal Component Analysis Color Identification Algorithm for Moving Plate Recognition system	102
Yu Chen, Jun Cao, Aifei Wang	102
Ways to Train Application-Oriented Software Engineer in Universities	108
Manjie Ren, Lijian He, Chuangcun Wang RETRACTED: Face Recognition with Learning-based Descriptor Lian Pan, Xin Peng	P 1C
The Discussion on How to Improve the Teaching Height of Program Design	120
The Research on Learning Behavior of Tibetan Network Teaching System	127
Yingxing Li, E. Yani The Passage and Implementation of the Vecetianal Curriculum Design and Construction of the	
The Research and Implementation of the Vocational Curriculum Design and Construction of the Repository	133
Nan Liu, Liang Liang Teaching Technique Innovation on CAD/CAM/CAE of Mold Course	137
Li Ru-xiong, Song-hua Jiao	
Designing Principles of Mobile Learning in ESP Course for Chinese Students	142

College Students' Use of the Computer and Network-based Self-Access Centre and Their English	
Learning Achievement	149
Xiuhong Lu, Jingbi Zhang Study on Innovative Modes of Quality Vocal Music Course in Higher Normal Colleges Yili Liu	155
Research on the Innovation of Training Mode for Professional Personnel of Computer	161
Considerations on the School-Company Cooperation in the Art Design Teaching	167
Factors Related to Improving Teaching of Sport Normal Students in China. De-Long Dong, Bin Ji, Yongping Yu, Depeng Dong	171
The Design and Implementation of a Process-Driven Higher Educational Administrative System	
Research on the Inquiry System of Showroom Multimedia of Sports Anatomy Yawei Song, Yuanyuan Liu, Xiyuan Zhang	183
An Exploratory Study on the Curricula Constructions of Sports Major Free Normal Students in China	188
Ran-ran Feng, Zhao-fang Peng, Aa-hui Fan A Brief Analysis on the Lettered Words in ChineseFrom the Perspective of Ecolinguistics	194
Design and Implement of Experimental System for the Computer Assembly and Maintenance Course Jun Liu, Hairong Jin	200
Research on the Teaching Model Application Tendency of Blended Learning in the Displayed Design Course	204
Zijuan Mo A Network Based Intelligent Training System of Internet Marketing for SMEs Lihua Zhou, Xiaoxiao Feng	209
The Application Technique of Signal detecting for Optic Fiber Temperature Sensor	215
Analysis on the Characteristics of Muscle Exertion in Electromyogram During Downward Kick Take Ten Elite Male Tea Kwon Do Athletes in China as Examples	222
Zhao-fang Peng, Bin Ji, Li-hua Li, De-long Dong On the Fitness Training of Older People in an Aging Society	228
Li-hua Li, Zhao-fang Peng, Ji-long Tang, An-hui Fan Construct of Web-based Instructional Environment Based on Inter-subjectivity Fusing Cognition	
with Emotion-Taking the Website Design of the Quality Course Apparel Production and Management for Example	234
Lifelong Learning Capabilities of College Students Boosting by Information Technology on Education Kun Guo, Haizhi Wang, Xing Ge	241
School-based Teaching Resources Integration In the E-learning Platform	247
SWOT Analysis of Functions of Chinese Universities	
Algorithms for Automatic Generation of Logical Questions on Mobile Devices	
Biomechanical Analysis on Hip-push Skills Applied in Walking Race Wei-wei Sun, Li-feng Zhang, An-hui Fan	
The Development of Track and Field Based on the Achievement of Athletic in Recent Years	
Research and Realization of GIS Network Education System Lin Liu, Wanwu Li, Hailiang Qiu, Chen Sun Application of Multimedia-aided Project-teaching Mode in Cultural Education	
Chen Wei, Ye Tao Study on the Cultivation of College Students' Science and Technology Innovative Ability in	202
Electrotechnics Teaching Based on PBL Mode	287
On Reform of Fundamentals of Computer in the Local University Jiang Xiong, Yuanbin Wu, Chunzhe Zhao	293
The C/C++ Integrative Teaching Based on CDIO Education Model Lijia Liu, Jianmin Wang, Shuling Di School	299

A Novel Dynamic Fuzzy Sets Method Applied to Practical Teaching Assessment on Statistical	
Software	303
Consideration of Knowledge Architecture Construction for New Technological Talent	311
Hongqiang Gu, Hui Song, Cheng Zhang	
Application of the Multimodal Discourse Analysis Theory to the Teaching of College English	
Listening and Speaking	319
Li Hong Design of Electrical Online Laboratory and E-learning	225
Gangjun Zhai, Ying Wang, Lin Liu	323
Internet of Knowledge Plus Knowledge Cloud-A Future Education Ecosystem	331
Dehua Ju, Beijun Shen	
Trading Based on Persistent STEP Messaging: A 'Solid' Step Towards a More Open Chinese Stock	227
Market	33/
Preliminary Investigation on CDIO Incorporated Educational Reform of the Course of Network	
Security	346
Feng Yu, Yinghua Wang	
The Construction of a Web2.0-based Entertainment Teaching Campus Website	350
Yujing Shi, Shufeng Duan, Ying Zhou Improved the Energy of Ad Hoc On-Demand Distance Vector Routing Protocol	355
Malek AL-Gabri, L.I. Chunlin, Yang Zhiyong, A.H. Naji Hasan, Zhang Xiaoqing	
Design the Structural Mechanics Network Curriculum	362
Jianying Ren, Congjuan Yang, Yanqiang Li	
Hand Written Digits Recognition Using Digital Learning Networks	367
Non-destructive Detection on the Egg Crack Based on Wavelet Transform	372
Pengcheng Li, Qiaohua Wang, Qiulin Zhang, Shiwang Cao, Yali Liu, Tao Zhu	
Analysis of Extended Algebraic Immunity of Boolean Functions	383
Xiaowen Xiong, Aiguo Wei, Zhuping Yang	
Performance Evaluation of Knowledge Transfer among Supply Chain Enterprises based on Weighted Principal Component Analysis	290
Ping Kang, Xiaoxu Wang	309
E-Business Skill Demand of SMEs in Taiwan: A Comparative Study with LSEs in Japan, and U.S.A	398
Chuan-Chun Wu, Chang-Chun Li	
Research and Application of Intelligent System of Cost Control and Profit Forecast	406
Shao-ling Wu, Jia-xian Zhu, Yun-duan Wu Curriculum System Evaluation Model for University's Professionals Based on Fuzzy Set	414
Biao Wang, Juping Zhang	
Research and Development Based on Interactive Computer Aided Instruction Software	420
Hongtao Cai, Yanhong Wang, Yusheng Li	
College English Lexical Learning Dependent on Context	425
Research on the Function and Performance Evaluation Systems of Community Health Services	431
Bingqiang Tian, Shouzhong Hu	
Study on the Reform and Mode of Local Higher Fashion Design and Engineering Education Which	
Service Industry Development	437
Shouzhong Hu, Bingqiang Tian A New High-Speed FPGA and Ethernet Based Embedded Data Acquisition System	444
Zhong Luan, Weigong Zhang, Yongxiang Zhang, Yan Lu	
The Study of Electronic Design Public Elective Courses Teaching in Colleges and Universities by Tina	
Pro	450
Yang Sha Dealising and Dealist and Asia and Elevible Defines and Delice of Shanghai	155
Preliminary Research on Aging Population and Flexible Retirement Policy of Shanghai	433
Research on Internalization of Environmental Costs of Economics	460
Guan Long, Wang Lei, Cheng Sijie, Wang Bo	
Network Aided Mathematical Modeling Education	467
Weihua Li, Jianxing Yao Experiencing a Computer Supported College Course – "Creating Culture Identity through Food and	
Experiencing a Computer Supported Conege Course – "Creating Culture Identity through Food and Language: United States and China in Dialogue"	472.
Bangxiu Xie, Jay McDaniel	

Goal-Oriented Method and Practice in Experimental Teaching	480
Construction and Empirical Analysis of Agricultural Science and Technology Enterprises Investment Risk Evaluation Index System	485
Bin Wang, Xiufang Wang, Jianzhong Wang	
Discussion on Social Network Learning from the Long Tail	492
A Unified Approach to Teach Computational Thinking for First Year Non-CS Majors in an	
Introductory Course Tun Li, Ting Wang	498
Teaching Innovation in Computer Network Course for Undergraduate Students with Packet Tracer	504
The Current Situation and Countermeasure of Gannan Tibetan Teachers' Continuing Education	511
Application of Fuzzy Methods in Multi-index Assessment	516
An Improved Quantum Ant Colony Algorithm and its Application	522
PCA-based Estimating Model of Multi-parameter Process Li Yan, Shen Xiangli, Chen Baolin, Li Xiurong	528
An Improved Algorithm of Quantum-behaved Particle Swarm Optimization and its Application in Time-Table Problem of Universities	534
De-hai Bao Application of Multimedia—Aided Project—Teaching Mode in Cultural Education Chen Wei, Ye Tao	538
Design of Publishing Information Service System Based on Web3.0	543
Toward New Vision in Teaching Calculus	548
XML Parser GUI using .NET Technology	554
Construction and Application of the Network Class in Blending Learning Method	561
A Hybrid Attribute-based Recommender System for E-learning Material Recommendation	565
A New Recommendation Approach Based on Implicit Attributes of Learning Material	571
Research on the Element of the Public Learning Platform Construction	577
A Research on the Development of Tennis in China from Multiple Angles	584
Research on Multimedia Teaching Materials of Ergonomics Experiments	590
The Development and Application of Simulation Studio Teaching Experiment System in Colleges and Universities	597
Ya Zhao, Xianmei Liu, Libo Yang	
Computer Supported Control Engineering Education Reform in Agriculture Engineering Field Based on Intelligent Agriculture (IA) New Concept	603
Yifei Chen, Baicheng Liu, Kai Qi, Ku Wang Teaching RC and RL Circuits Using Computer-supported Experiments	609
Roman Ya. Kezerashvili	
Computer Technology Integration and Multimedia Application for Teacher Professional Development: The Use of Instructional Technology in the Classroom Settings	616
Jiunn-Tzer Wang, Lon-Chen Hung, Hui-Ming Hsieh, Jsung-Ta Tsai, I-Hua Lin Internet-Assisted College English Teaching in China	623
Zhiyu Li, Muhui Hu, Hongying Zou The Designation and Application of Manuscript Document Model in MCAI Software Gu Zhenli	630
Research on the Knowledgeable Talents Performance Management Based On Organizational Commitment	636
De Yi Kong, Xiang Oian Zhang	

Study on the Simulative Financial Management System in ERP Education	642
A Novel Solution to a Strategic Learning Search Problem	649
Research and Practice on Web 2.0-based Collaborative Learning	655
The Design of General Analog to Digital Converter Li Yan, Fu Min, Hu De-quan	660
Research of Multimedia Teaching on Principles of Management Mingming Hu, Shu Xu	666
Exploration and Research of Soil Mechanics Experiment Base on Network Environment	671
Research on Safe and Reliable Architecture for Enhanced Search Engine base on RUP	676
Application Research on Rank Return Method in Mathematics Achievement Appraisal	
The Retrospective Analysis of China E-sports Club	690
The Targeted Teaching Strategies for Students with Different Learning Motivations in the University Economics Education	696
Excitation Effect Research on Monetary Compensation Gap between Senior Executives and EmployeesBased on the Empirical Study of Listed Companies	702
Discusses the Fine Refinement Management Pattern in the Institutions of Higher Learning Laboratory Management Application	710
Tang Jun, Huang Zhiwei, Wu Yuchuan, Long Hanan, Zeng Xiaorong Development of the Electronic Engineering Case Library Classroom Response System Zhuozheng Wang, Quanying Zheng, Junhua Liu, Yan Lv, Tingting Bian	715
Designing of the Information Security Examination System	721
End-to-end Delay Assessment and Hybrid Routing Protocol for Vehicular Ad Hoc Network	727
Estimations of Structural Reliability Relative to a Dependent GBVE Distribution	734
Developing an Intelligent Agent for Managing Web 2.0 Services. Chun Fu Lin, Yu-chu Yeh, Yu Hsin Hung, Ray I. Chang	
Mass Data Storage and Management Solution Based on Cloud Computing	
Exploration of Teaching Nodes on Network Platform <i>Kun Zhang</i>	
Study on Strategies to the Graduates Employment	
An Analysis of the Relation between Multimedia Assisted Instruction and Physical Education	
The Analysis of University Curriculum Setting Based on KNIME Genlang Chen, Jiuqiu Yang	
Information Technology Application in ESP Education	
A Novel Ant Colony Algorithm of Solving Nonlinear Equation Group Zhiqi Min, Yueguang Li Escial Expression Recognition Record on SVM in Electronics	
Facial Expression Recognition Based on SVM in E-learning	
Shijun He, Yanyan Dai, Ruyan Zhou, Shiting Zhao Adaptive Learning System Applied Bruner' EIS Theory	
Jaemu Lee, Du-Gyu Kim Design and Development of an Interactive Augmented Reality Edutainment Storybook for Preschool	
Dayang Rohaya, Awang Rambli, Wannisa Matcha, Suziah Sulaiman, Mohd Yunus Nayan Adaptation of Learning Strategies in Learning Objects for using Learning Styles	
Javier Enrique Rojas Moreno	

Modern Necessities in Educational Process Innovation	815
Alexander Gromoff, Julia Stavenko, Kristina Evina	
The Relationship of Training Quality in E-learning and Organizational Commitment to	
Organizational Performance in the Taiwan Service Industry	821
Chien-Pei Ko, Chen-Chen Ko	
The Application of VPN in the Remote Virtual Classroom Minghui Wang, Junhua Pan, Zhou Zheng	828
Approaches and Tools for E-learning in Social Communication Courses	834
E-learning and English Teaching	841
Electronic Support for Students Basic Training in Graphics with Black Board Environment	847
Development-Driven E-learning Education Model and Application in Teaching Information	
Technology	854
Xiangqian Li, Fuqing Gao	
Research on Learning Effectiveness of Learner-Oriented Teaching Strategies Used on the Subject of "Interior Wiring Practice"	850
Chih-Chung Wang, Yi-Long Lee, Tsair-Rong Chen, Jong-Bi Wei	
Discussion on "Outstanding Engineers" Training Program for Information Security Major in China	868
Huan Chen, Zhenhua Tan, Guangming Yang	
Face Recognition based on Fuzzy Linear Discriminant Analysis	873
Genyuan Zhang	
The Verification of Structure Identification Algorithm and Error Detection Strategies for Structured	
Flowchart	880
Wen-Jia Gong, Ming-Cheng Qu, Xiang-hu Wu, Pei-Jun Ma	
Study on Construction of Nursing Clinical Teachers' Comprehensive Quality Evaluation Index	
System	888
Zhijuan Liu, Jiaming Zhong	
Vocational Ability Oriented Modularized Curriculum for Advanced Vocational School	897
Contributions of Environmental NGO to Environmental Education in China	901
Chen Jia-nan	
Design of Data Sharing and Exchange Interface of Telecom Enterprise Marketing Management System	907
Jin Luo, Xiao Fang Zu, Liang Chen, Weihui Du	
The Origin of Building GIS Software Development Model	914
Jin Luo, Xiaofang Zu, Cheng Zhang, Xincai Wu	
Overview of Three-dimensional Geological Modeling Technology	921
Xiao Fang Zu, Wei Sheng Hou, Bao Yi Zhang, Wei Hua Hua, Jin Luo	
3D Modeling of Tunnel Engineering based on Geological Body	928
Xiao Fang Zu, Bao Yi Zhang, Jin Luo, Wei Hua Hua, Wei Sheng Hou	
Retraction Notice to "Face Recognition with Learning-based Descriptor" [IERI (2012) 114–119]	935
Author Index	