

Contents

Integrating Current Technologies into Graduate Computer Science Curricula	1
<i>Lixin Tao, Constantine Coutras, Narayan Murthy, Richard Kline</i>	
Effective Web and Java Security Education with the SWEET Course Modules/Resources	9
<i>Lixin Tao, Li-Chiou Chen</i>	
Thinking of the College Students' Humanistic Quality Cultivation in Forestry and Agricultural Colleges	17
<i>Gui-jun Zheng, De-sheng Deng, Wei Zhou</i>	
A Heuristic Approach of Code Assignment to Obtain an Optimal FSM Design	23
<i>M. Altaf Mukati</i>	
Development of LEON3-FT Processor Emulator for Flight Software Development and Test	33
<i>Jong-Wook Choi, Hyun-Kyu Shin, Jae-Seung Lee, Yee-Jin Cheon</i>	
Experiments with Embedded System Design at UMinho and AIT	41
<i>Adriano Tavares, Mongkol Ekpanyapong, Jorge Cabral, Paulo Cardoso, Jose Mendes, Joao Monteiro</i>	
The Study of H. 264 Standard Key Technology and Analysis of Prospect ..	49
<i>Huali Yao, Yubo Tan</i>	
Syllabus Design across Different Cultures between America and China	55
<i>Fengying Guo, Ping Wang, Sue Fitzgerald</i>	
Using Eye-Tracking Technology to Investigate the Impact of Different Types of Advance Organizers on Viewers' Reading of Web-Based Content: A Pilot Study	63
<i>Han-Chin Liu, Chao-Jung Chen, Hsueh-Hua Chuang, Chi-Jen Huang</i>	

The Development and Implementation of Learning Theory-Based English as a Foreign Language (EFL) Online E-Tutoring Platform	71
<i>Hsueh-Hua Chuang, Chi-Jen Huang, Han-Chin Liu</i>	
Analysis of the Appliance of Behavior-Oriented Teaching Method in the Education of Computer Science Professional Degree Masters	77
<i>Xiugang Gong, Jin Qiu, Shaoquan Zhang, Wen Yang, Yongxin Jia</i>	
Automatic Defensive Security System for WEB Information	83
<i>Jiuyuan Huo, Hong Qu</i>	
Design and Implementation of Digital Campus Project in University	89
<i>Hong Qu, Jiuyuan Huo</i>	
Detecting Terrorism Incidence Type from News Summary	95
<i>Sarwat Nizamani, Nasrullah Memon</i>	
Integration of Design and Simulation Softwares for Computer Science and Education Applied to the Modeling of Ferrites for Power Electronic Circuits	103
<i>Rosa Ana Salas, Jorge Pleite</i>	
Metalingua: A Language to Mediate Communication with Semantic Web in Natural Languages	109
<i>Joachim Drugus</i>	
An Integrated Case Study of the Concepts and Applications of SAP ERP HCM	117
<i>Mark Lehmann, Burkhardt Funk, Peter Niemeyer, Stefan Weidner</i>	
IT Applied to Ludic Rehabilitation Devices	127
<i>Victor Hugo Zárate Silva</i>	
A Channel Assignment Algorithm Based on Link Traffic in Wireless Mesh Network	133
<i>Liu Chunxiao, Chang Guiran, Jia Jie, Sun Lina</i>	
An Analysis of YouTube Videos for Teaching Information Literacy Skills . . .	143
<i>Shaheen Majid, Win Kay Kay Khine, Ma Zar Chi Oo, Zin Mar Lwin</i>	
Hybrid Learning of Physical Education Adopting Lightweight Communication Tools	153
<i>Ya-jun Pang</i>	
Experiments on an E-Learning System for Keeping the Motivation	161
<i>Kazutoshi Shimada, Kenichi Takahashi, Hiroaki Ueda</i>	
Object Robust Tracking Based an Improved Adaptive Mean-Shift Method	169
<i>Pengfei Zhao, Zhenghua Liu, Weiping Cheng</i>	

A Novel Backstepping Controller Based Acceleration Feedback with Friction Observer for Flight Simulator	179
<i>Yan Ren, ZhengHua Liu, Weiping Cheng, Rui Zhou</i>	
The Optimization Space Design on Natural Ventilation in Hunan Rural Houses Based on CFD Simulation	189
<i>Mingjing Xie, Lei Shi, Runjiao Liu, Ying Zhang</i>	
Optimal Simulation Analysis of Daylighting Design in New Guangzhou Railway Station	197
<i>Lei Shi, Mingjing Xie, Nan Shi, Runjiao Liu</i>	
Research on Passive Low Carbon Design Strategy of Highway Station in Hunan	207
<i>Lei Shi, Mingjing Xie, Zhang Ying, Luobao Ge</i>	
A Hybrid Approach to Empirically Test Process Monitoring, Diagnosis and Control Strategies	215
<i>Luis G. Bergh</i>	
Reconstructing Assessment in Architecture Design Studios with Gender Based Analysis: A Case Study of 2nd Year Design Studio of National University of Malaysia	223
<i>Nangkula Utaberta, Badiossadat Hassanpour, Azami Zaharim, Nurhananie Spalie</i>	
Re-assesing Criteria-Based Assessment in Architecture Design Studio	231
<i>Nangkula Utaberta, Badiossadat Hassanpour, Azami Zaharim, Nurhananie Spalie</i>	
Layout Study on Rural Houses in Northern Hunan Based on Climate Adaptability	239
<i>Xi Jin, Shouyun Shen, Ying Shi</i>	
Determination of Software Reliability Demonstration Testing Effort Based on Importance Sampling and Prior Information	247
<i>Qiuying Li, Jian Wang</i>	
The Stopping Criteria for Software Reliability Testing Based on Test Quality	257
<i>Qiuying Li, Jian Wang</i>	
The CATS Project	265
<i>Licia Sbattella, Roberto Tedesco, Alberto Quattrini Li, Elisabetta Genovese, Matteo Corradini, Giacomo Guaraldi, Roberta Garbo, Andrea Mangiatordi, Silvia Negri</i>	
Application of Symbolic Computation in Non-isospectral KdV Equation	273
<i>Yuanyuan Zhang</i>	

Modeling Knowledge and Innovation Driven Strategies for Effective Monitoring and Controlling of Key Urban Health Indicators	279
<i>Marjan Khobreh, Fazel Ansari-Ch., Madjid Fathi</i>	
Team-Based Software/System Development in the Vertically-Integrated Projects (VIP) Program	287
<i>Randal Abler, Edward Coyle, Rich DeMillo, Michael Hunter, Emily Ivey</i>	
Frameworks for Effective Screen-Centred Interfaces	295
<i>Luigi Benedicenti, Sheila Petty, Christian Riegel, Katherine Robinson</i>	
Analytical Classification and Evaluation of Various Approaches in Temporal Data Mining	303
<i>Mohammad Reza Keyvanpour, Atekeh Etaati</i>	
A Novel Classification of Load Balancing Algorithms in Distributed Systems	313
<i>Mohammad Reza Keyvanpour, Hadi Mansourifar, Behzad Bagherzade</i>	
Data Mining Tasks in a Student-Oriented DSS	321
<i>Vasile Paul Bresfelean, Mihaela Bresfelean, Ramona Lacurezeanu</i>	
Teaching Automation Engineering: A Hybrid Approach for Combined Virtual and Real Training Using a 3-D Simulation System	329
<i>Juergen Rossmann, Oliver Stern, Roland Wischnewski, Thorsten Koch</i>	
The Strategy of Implementing e-Portfolio in Training Elementary Teachers within the Constructive Learning Paradigm	339
<i>Olga Smolyaninova, Vladimir Ovchinnikov</i>	
Speech Recognition Based Pronunciation Evaluation Using Pronunciation Variations and Anti-models for Non-native Language Learners	345
<i>Yoo Rhee Oh, Jeon Gue Park, Yun Keun Lee</i>	
Computer Applications in Teaching and Learning: Implementation and Obstacles among Science Teachers	353
<i>Abdalla M.I. Khataybeh, Kholoud Al Sheik</i>	
Author Index	361