

International Journal of Distance Education Technologies

April-June 2014, Vol. 12, No. 2

Table of Contents

RESEARCH ARTICLES

- 1 **Social Networks Analysis and Participation in Learning Environments to Digital Inclusion Based on Large-Scale Distance Education**
Aleksandra do Socorro da Silva, Cyberspace Institute, Federal Rural University of Amazônia (ICIBE - UFRA), Belem, Brazil & Federal University of Pará (PPGEE-UFPA), Belem, Brazil
Silvana Rossy de Brito, Cyberspace Institute – Federal Rural University of Amazônia (ICIBE - UFRA), Belem, Brazil & Federal University of Pará (PPGEE-UFPA), Belem, Brazil
Dalton Lopes Martins, Technology Faculty of São Paulo, Sao Paulo, Brazil
Nandamudi Lankalapalli Vijaykumar, National Institute for Space Research (INPE), Belem, Brazil
Cláudio Alex Jorge da Rocha, Federal University of Pará (PPGEE-UFPA), Belem, Brazil & Federal Institute of Pará (IFPA), Sao Paulo, Brazil
João Crisóstomo Weyl Albuquerque Costa, Federal University of Pará (PPGEE-UFPA), Belem, Brazil
Carlos Renato Lisboa Francês, Federal University of Pará (PPGEE-UFPA), Belem, Brazil

- 26 **Detection of Misconceptions and Misleading Questions by Using Quantitative Diagnostic Assessment**
Martin M. Weng, Department of Computer Science and Information Engineering, Tamkang University, New Taipei City, Taiwan
Wen-Chih Chang, Department of Information Management, Chung-Hua University, Hsinchu, Taiwan
Neil Y. Yen, School of Computer Science and Engineering, University of Aizu, Fukushima, Japan
Timothy K. Shih, Department of Computer Science and Information Engineering, National Central University, Zhongli, Taiwan
Hui-Huang Hsu, Department of Computer Science and Information Engineering, Tamkang University, New Taipei City, Taiwan

- 51 **An e-Learning Collaborative Filtering Approach to Suggest Problems to Solve in Programming Online Judges**
Raciel Yera Toledo, University of Ciego de Ávila, Morón, Ciego de Ávila, Cuba
Yailé Caballero Mota, University of Camagüey, Camagüey, Cuba

- 66 **Designing Ensemble Based Security Framework for M-Learning System**
Sheila Mahalingam, C-ACT, Faculty of Information Technology and Communication, Univeristi Teknikal Malaysia, Melaka, Malaysia
Mohd Faizal Abdollah, C-ACT, Faculty of Information Technology and Communication, Univeristi Teknikal Malaysia, Melaka, Malaysia
Shahrin bin Sahibuddin, C-ACT, Faculty of Information Technology and Communication, Univeristi Teknikal Malaysia, Melaka, Malaysia

- 83 **Development and Evaluation of a Web 2.0-Based Ubiquitous Learning Platform for Schoolyard Plant Identification**
Gwo-Haur Hwang, Department of Information Networking and System Administration, Ling Tung University, Nantun, Taichung, Taiwan
Hui-Chun Chu, Department of Computer Science and Information Management, Soochow University, Taipei, Taiwan
Beiyin Chen, Department of Information Management, Ling Tung University, Nantun, Taichung, Taiwan
Zheng Shan Cheng, Department of Information Technology, Ling Tung University, Nantun, Taichung, Taiwan

- 104 **Exploration of Tensions in a Mobile-Technology Supported Fieldtrip: An Activity Theory Perspective**
Chih-Hung Lai, Department of Computer Science and Information Engineering, National Dong Hwa University, Taipei, Taiwan
Fei-Ching Chen, Graduate Institute of Learning and Instruction, National Central University, Zhongli, Taiwan
Jie-Chi Yang, Graduate Institute of Network Learning Technology, National Central University, Zhongli, Taiwan

Copyright

The **International Journal of Distance Education Technologies (IJDET)** (ISSN 1539-3100; eISSN 1539-3119), Copyright © 2014 IGI Global. All rights, including translation into other languages reserved by the publisher. No part of this journal may be reproduced or used in any form or by any means without written permission from the publisher, except for noncommercial, educational use including classroom teaching purposes. Product or company names used in this journal are for identification purposes only. Inclusion of the names of the products or companies does not indicate a claim of ownership by IGI Global of the trademark or registered trademark. The views expressed in this journal are those of the authors but not necessarily of IGI Global.

The *International Journal of Distance Education Technologies* is indexed or listed in the following: ABI/Inform; ACM Digital Library; Aluminium Industry Abstracts; Australian Education Index; Bacon's Media Directory; Burrelle's Media Directory; Cabell's Directories; Ceramic Abstracts; Compendex (Elsevier Engineering Index); Computer & Information Systems Abstracts; Corrosion Abstracts; CSA Civil Engineering Abstracts; CSA Illumina; CSA Mechanical & Transportation Engineering Abstracts; DBLP; DEST Register of Refereed Journals; EBSCOhost's Academic Search; EBSCOhost's Academic Source; EBSCOhost's Business Source; EBSCOhost's Computer & Applied Sciences Complete; EBSCOhost's Computer Science Index; EBSCOhost's Computer Source; EBSCOhost's Current Abstracts; EBSCOhost's Science & Technology Collection; Electronics & Communications Abstracts; Engineered Materials Abstracts; ERIC – Education Resources Information Center; GetCited; Google Scholar; INSPEC; JournalTOCs; KnowledgeBoard; Library & Information Science Abstracts (LISA); Materials Business File - Steels Alerts; MediaFinder; Norwegian Social Science Data Services (NSD); PsycINFO®; PubList.com; SCOPUS; Solid State & Superconductivity Abstracts; The Index of Information Systems Journals; The Standard Periodical Directory; Ulrich's Periodicals Directory