

Table of Contents

International Journal of Information and Communication Technology Education

Volume 14 • Issue 4 • October-December-2018 • ISSN: 1550-1876 • eISSN: 1550-1337

An official publication of the Information Resources Management Association

RESEARCH ARTICLES

- 1 **Exploring the Usage of MOOCs in Higher Education Institutions: Characterization of the Most Used Platforms**
Carolina Costa, DEGEIT - University of Aveiro, Aveiro, Portugal
Leonor Teixeira, DEGEIT / IEETA - University of Aveiro, Aveiro, Portugal
Helena Alvelos, DEGEIT / CIDMA - University of Aveiro, Aveiro, Portugal

- 18 **A New Approach for Assessing Learners in an Online Problem Based Learning Environment**
Houda Tadjer, Computer Science Department, University Badji Mokhtar, Annaba, LabSTIC Laboratory, University 8 May 1945
Guelma, Guelma, Algeria
Yacine Lafifi, LabSTIC Laboratory, University 8 May 1945 Guelma, Guelma, Algeria
Hassina Seridi-Bouchelaghem, LabGED Laboratory, University Badji Mokhtar, Annaba, Algeria

- 34 **Application of the Cognitive Walkthrough Method to Evaluate the Usability of PhET Simulations Package to Teach Physics**
Gustavo de Oliveira Almeida, PPGAd - Federal Fluminense University, Niteroi, Brazil
Cesar Augusto Rangel Bastos, Federal University of the State of Rio de Janeiro (UNIRIO), Rio de Janeiro, Brazil

- 49 **Computer Assisted Evaluation Using Rubrics for Reduction of Errors and Inter and Intra Examiner Heterogeneity**
Kissan G. Gauns Dessai, Govt. College of Arts, Science and Commerce, Quepem-Goa, India
Venkatesh V. Kamat, Goa University, Goa, India

- 66 **Development of Interactive Multimedia Learning Materials for Improving Critical Thinking Skills**
Djusmaini Djamars, Universitas Negeri Padang, Padang, Indonesia
Vonny Tinedi, Universitas Negeri Padang, Padang, Indonesia
Yohandri, Universitas Negeri Padang, Padang, Indonesia

- 85 **A Gaming Perspective on Mathematics Education**
Su-Ting Yong, The University of Nottingham, Semenyih, Malaysia
Peter Gates, The University of Nottingham, UK
Andy Tak-Yee Chan, The University of Nottingham, Semenyih, Malaysia

- 99 **The Influence of Proliferation of Technology on Social Interactions Among Undergraduate Students at Selected Universities in Nigeria**
Florence F. Folami, Department of Nursing Science, Faculty of Clinical Science, University of Lagos, Lagos, Nigeria
Blessing F. Adeoye, The Riley College School of Education and Professional Licensure, Walden University, Minneapolis, USA

- 107 **Independent Learning of Digital Animation**
May-Chan Yuen, Universiti Tunku Abdul Rahman, Kajang, Malaysia
Ah-Choo Koo, Multimedia University, Cyberjaya, Malaysia
Peter C. Woods, Multimedia University, Cyberjaya, Malaysia

BOOK REVIEW

- 121 **Developing Effective Educational Experiences Through Learning Analytics**
Chia-Wen Tsai, Department of Information Management, Ming Chuan University, Taiwan

Copyright

The **International Journal of Information and Communication Technology Education (IJICTE)** (ISSN 1550-1876; eISSN 1550-1337), Copyright © 2018 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 Information and Communication Technology Education* is indexed or listed in the following: ACM Digital Library; Australian Business Deans Council (ABDC); Bacon's Media Directory; Burrelle's Media Directory; Cabell's Directories; Compendex (Elsevier Engineering Index); CSA Illumina; DBLP; DEST Register of Refereed Journals; EBSCOhost's Library/Information Science & Technology Abstracts with FullTEXT; Gale Directory of Publications & Broadcast Media; GetCited; Google Scholar; INSPEC; JournalTOCs; Library & Information Science Abstracts (LISA); MediaFinder; Norwegian Social Science Data Services (NSD); PsycINFO®; SCOPUS; The Index of Information Systems Journals; The Standard Periodical Directory; Ulrich's Periodicals Directory; Web of Science; Web of Science Emerging Sources Citation Index (ESCI)