

# Table of Contents

## International Journal of Information and Communication Technology Education

Volume 15 • Issue 4 • October-December-2019 • ISSN: 1550-1876 • eISSN: 1550-1337

### Research Articles

- 1 Higher-Order Learning Outcomes in an Undergraduate IT Project Management Course**  
Joseph Budu, Ghana Institute of Management and Public Administration, Accra, Ghana
- 12 Students' Perceptions in Software Modelling Using UML in Undergraduate Software Engineering Projects**  
Kanos Matyokurehwa, Zimbabwe Ezekiel Guti University, Bindura, Zimbabwe  
Kendra Tafadzwa Makoni, Botho University, Gaborone, Botswana
- 25 Identifying Student Satisfaction in the Flipped English Class Enhanced With Clickers**  
Zhonggen Yu, Department of English Studies, Faculty of Foreign Studies, Beijing Language and Culture University, Beijing, China
- 41 Electronic Textbooks in Gauteng Public Schools: Pros and Cons**  
Michack Mandla Masango, University of Pretoria, Pretoria, South Africa  
Linda Van Ryneveld, University of Pretoria, Pretoria, South Africa  
Marien Alet Graham, University of Pretoria, Pretoria, South Africa
- 58 Partnering With Parents: Devices and Apps to Support Elementary Children Reading**  
Lauren Eutsler, University of North Texas, USA
- 76 Why Design Thinking in IT Business Management Program? An Exploratory Study on Students' Design Thinking Learning Experience**  
Vijayakumar Bharathi S., Symbiosis Centre for Information Technology (SCIT), Symbiosis International (Deemed University), Pune, India  
Mandaar Pande, Symbiosis Centre for Information Technology (SCIT), Symbiosis International (Deemed University), Pune, India
- 94 An Innovative Approach of Applying Knowledge Management in M-Learning Application Development: A Pilot Study**  
Mostafa Al-Emran, Universiti Malaysia Pahang, Gambang, Malaysia  
Vitaliy Mezhuhev, FH Joanneum University of Applied Sciences, Kapfenberg, Austria  
Adzhar Kamaludin, Universiti Malaysia Pahang, Gambang, Malaysia
- 113 Improving Teachers' Understanding of Theoretical Foundations of Technology Use: Connecting Theories With Technology**  
Dazhi Yang, Boise State University, USA  
Shannon Skelcher, Boise State University, USA
- 128 Effectiveness and Satisfaction of a Proposed Strategy to Provide Electronic Feedback Based on Authentic Learning Principles in Princess Nourah University**  
Hessah Mohammed Alshaya, Princess Nourah University, Riyadh, Saudi Arabia

### COPYRIGHT

The *International Journal of Information and Communication Technology Education (IJICTE)* (ISSN 1550-1876; eISSN 1550-1337), Copyright © 2019 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; 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)