

Table of Contents

International Journal of Information and Communication Technology Education

Volume 16 • Issue 2 • April-June-2020 • ISSN: 1550-1876 • eISSN: 1550-1337

Research Articles

- 1 **Open Sourcing the Pedagogy to Activate the Learning Process**
Alan Rea, Haworth College of Business, Western Michigan University, Kalamazoo, USA
Nick Yeates, UMBC, Baltimore, USA
- 18 **Utilizing MAR for Remedial Teaching of Compound-Cube-Surface Area at Elementary School in Taiwan**
Koun Tem Sun, National University of Tainan, Tainan, Taiwan
Meng Hsun Chen, National University of Tainan, Tainan, Taiwan
- 36 **Mobile and Adaptive Learning Application for English Language Learning**
Samir Bouekkache, Smart Computer Science Laboratory, Computer Science Department, University of Biskra, Biskra, Algeria
Okba Kazar, Smart Computer Science Laboratory, Biskra University, Biskra, Algeria
- 47 **Students' Difficulties in Identifying the Use of Ternary Relationships in Data Modeling**
Rami Rashkovits, Yezreel Valley College, Jezreel Valley, Israel
Ilana Lavy, Yezreel Valley College, Jezreel Valley, Israel
- 59 **Improving the Quality of "The Internet of Things" Instruction in Technology Management, Cybersecurity, and Computer Science**
Darrell Norman Burrell, Florida Institute of Technology, Melbourne, USA
Ashley Courtney-Dattola, Capella University, Minneapolis, USA
Sharon L. Burton, Florida Institute of Technology, Melbourne, USA
Calvin Nobles, University of Maryland Global Campus, Largo, USA
Delores Springs, Regent University, Virginia Beach, USA
Maurice E. Dawson, Illinois Institute of Technology, Chicago, USA

COPYRIGHT

The **International Journal of Information and Communication Technology Education (IJICTE)** (ISSN 1550-1876; eISSN 1550-1337), Copyright © 2021 IGI Global. From the journal's inception, January 1, 2005, to December 31, 2020, all rights, including translation into other languages is reserved by the publisher, unless otherwise stated in the article manuscript. As of January 1, 2021, this journal operates under the gold Open Access model, whereby all content published after this date is distributed under the terms of the Creative Commons Attribution 4.0 International (CC BY 4.0) License (<http://creativecommons.org/licenses/by/4.0/>) where copyright for the work remains solely with the author(s) of the article manuscript. 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)