

# Table of Contents

## International Journal of Web-Based Learning and Teaching Technologies

Volume 16 • Issue 5 • September-October-2021 • ISSN: 1548-1093 • eISSN: 1548-1107

### OPEN ACCESS ARTICLE

- 1 **A Hybrid Approach Based on Fuzzy TOPSIS-AHP for Ranking and Classifying MOOC Key Acceptance Factors**  
Neeraj Chopra, J. C. Bose University of Science and Technology, YMCA, India  
Rajiv Sindwani, J. C. Bose University of Science and Technology, YMCA, India  
Manisha Goel, J. C. Bose University of Science and Technology, YMCA, India
- 21 **Student Perspective-Based Evaluation of Online Transition During the COVID-19 Outbreak: A Case Study of PNU Students**  
Fahima Hajje, Information Systems Department, College of Computer and Information Sciences, Princess Nourah bint Abdulrahman University, Riyadh, Saudi Arabia  
Sarrah Ayouni, Information Systems Department, College of Computer and Information Sciences, Princess Nourah bint Abdulrahman University, Riyadh, Saudi Arabia  
Hadil Shaiba, Computer Sciences Department, College of Computer and Information Sciences, Princess Nourah bint Abdulrahman University, Riyadh, Saudi Arabia  
Ala Saleh Alluhaidan, Information Systems Department, College of Computer and Information Sciences, Princess Nourah bint Abdulrahman University, Riyadh, Saudi Arabia
- 39 **Summarizing Learning Materials Using Graph Based Multi-Document Summarization**  
Krishnaveni P, National Institute of Technology, Tiruchirappalli, India  
Balasundaram S R, National Institute of Technology, Tiruchirappalli, India
- 58 **A Worldwide Survey on the Use of Social Networking in Higher Education: A Teacher's Perspective**  
Silvia Gaftandzhieva, University of Plovdiv "Paisii Hilendarski", Bulgaria  
Rositsa Doneva, University of Plovdiv "Paisii Hilendarski", Bulgaria
- 80 **System-Based Ontology for Assessing Learner's Programming Practical Works Activities (S\_onto\_ALPPWA)**  
Karima Boussaha, Department of Computer Science, Larbi Ben M'hidi University Oum El Bouaghi, Algeria  
Farid Mokhati, Department of Computer Science, Larbi Ben M'hidi University Oum El Bouaghi, Algeria  
Amira Hanneche, Department of Computer Science, Larbi Ben M'hidi University Oum El Bouaghi, Algeria
- 108 **An Approach to Convert Conventional Laboratories Into IoT-Enabled Laboratories**  
Prakash K. R., The National Institute of Engineering, India  
Santhosh M. S., Didactics, Hydac India Private Limited, India  
Purushothama G. K., Malnad College of Engineering, India  
Ramya M. V., Sri Jayachamarajendra College of Engineering, JSS Science and Technology University, India
- 121 **An Investigation of Student Satisfaction in an Online Language Learning Course**  
Thach Ngoc Pham, Hanoi University, Vietnam  
Giang Hong Nguyen, Hanoi University, Vietnam
- 137 **Big Data and Internet of Things (IoT) Technologies' Influence on Higher Education: Current State and Future Prospects**  
Vardan Mkrtchian, HHH University, Australia  
Leyla Gamidullaeva, K. G. Razumovsky Moscow State University of Technologies and Management (FCU), Russia & Penza State University, Russia  
Alexey Finogeev, Penza State University, Russia  
Serge Chernyshenko, Moscow Pегion State University, Russia  
Vsevolod Chernyshenko, Financial University Under the Government of the Russian Federation, Russia  
Danis Amirov, Moscow State University of Technology and Management, Russia  
Irina Potapova, Astrakhan State University of Architecture and Civil Engineering, Russia
- 158 **The Improvement of Elementary School Teachers Through Web-Based Clinical Supervision**  
Rugaiyah Rugaiyah, Universitas Negeri Jakarta, Indonesia  
Cecep Kustandi, Universitas Negeri Jakarta, Indonesia  
Desi Rahmawati, Universitas Negeri Jakarta, Indonesia  
Dini Nur Fadhillah, Universitas Sebelas Maret, Indonesia
- 171 **The Use of Google Classroom to Support the Learning Process: Assessing Graduate Student Skills and Perceptions**  
Zuhrieh Shana, Al Ain University, UAE  
Tareq Mohamad Alyatim, Al Ain University, UAE  
Mohammad Alkhazaleh, Al Ain University, UAE  
Nahla Alshalabi, Al Ain University, UAE

### Copyright

The *International Journal of Web-Based Learning and Teaching Technologies (IJWLTT)* (ISSN 1548-1093; eISSN 1548-1107), Copyright © 2021 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 Web-Based Learning and Teaching Technologies* is indexed or listed in the following: ACM Digital Library; Applied Social Sciences Index & Abstracts (ASSIA); Bacon's Media Directory; Burrelle's Media Directory; Cabell's Directories; CSA Illumina; DBLP; ERIC – Education Resources Information Center; 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; UGC-CARE List (India); Ulrich's Periodicals Directory