

EDITORIAL

The IADIS International Journal on Computer Science and Information Systems (IJCSIS) is a peer-reviewed scientific journal published exclusively in an electronic format. Its mission is to publish original contributions pertaining to the topics of Information Systems and their uses, to disseminate knowledge amongst its readers and to be a reference publication. The IADIS IJCSIS publishes original research papers and review papers, as well as auxiliary material such as short ongoing research papers, case studies, conference reports, management reports, book reviews and commentaries.

The Volume 17, Issue 1 (ISSN: 1646-3692) combines six selected original papers that bring together researchers covering the wide spectrum of the area of Computer Science and Information Systems in different contexts. The authors' contributions embrace significant research topics and intend to provide a current depiction of the research in the field while opening way to future research.

The first paper in this issue by Christian Uhl and Bernd Freisleben entitled "PERFORMANCE IMPROVEMENTS OF BIGBLUEBUTTON FOR DISTANCE TEACHING" presents a web conferencing system designed for online learning. This tool involves a set of pre-configured open-source software tools with a video conferencing functionality mainly for teaching purposes. The authors propose recommendations on how the services provided by BBB (BIGBLUEBUTTON) can be enhanced to meet the technical challenges identified during online lecturing.

The second paper by Cynthia Pickering, Erik Fisher and Paul Ross entitled "SOCIO-TECHNICAL LEARNING: CONTEXTUALIZING UNDERGRADUATE EXTERNSHIPS TO BRIDGE THE DIGITAL DIVIDE" explore the concept of digital divide. It reports on "the temporal progression of human and social dimensions that undergraduate information and communications technology (ICT) students realized during an experiential learning externship where they explored digital divide technology solutions for low-income neighborhoods in the surrounding urban community".

The third paper by Eduard Daoud, Nabil Khalil and Martin Gaedke with the title "IMPLEMENTATION OF A ONE STAGE OBJECT DETECTION SOLUTION TO DETECT COUNTERFEIT PRODUCTS MARKED WITH A QUALITY MARK", focuses on a solution to identify counterfeit products. This paper stressed the difference between one-stage detectors and YOLO (You Only Look Once) algorithm with its different versions and two-stage detectors.

The fourth paper authored by Fábio Longo De Moura and Filipe De Sá-Soares entitled "SEMANTIC AND SYNTACTIC RULES FOR THE SPECIFICATION OF INFORMATION SYSTEMS AND TECHNOLOGY COMPETENCIES" tries to address the concept of competency in scientific investigations. The authors examine eight competency frameworks, review the definitions of competency-related concepts and propose a competency

grammar to standardize and clarify the specification of competencies, by resorting to Backus-Naur Form.

The fifth paper entitled “THE APPLICATION OF MACHINE LEARNING IN LITERATURE REVIEWS: A FRAMEWORK” by Yusuf Bozkurt, Reiner Braun and Alexander Rossmann aims to present a method in which machine learning can support SLR (systematic literature review) research. It is developed a framework that supports the traditional approach of conducting a literature review using machine learning and text mining methods.

The final contribution by Dalia Gallico named “HISTORIC HOUSE MUSEUMS AND THEMATIC INDICATORS FOR CULTURE IN THE 2030 AGENDA” paper presents “the nuanced role of culture in the sustainable development agenda of the United Nations, highlighting the contribution of House Museums in all the World.” It is identified some museums that are already taking in consideration more sustainable practices, thus contributing to the United Nations’ Sustainable Development Goals (SDG’s) and to creating a sustainable future.

These papers illustrate the different facets of research done on different contexts of Computer Science and Information Systems. The review of the relevant literature contributes to the theoretical grounding of these areas and the innovative empirical research on different technologies creates opportunity for the development of innovative findings.

The Editors

Pedro Isaías

Information Systems & Technology Management School, The University of New South Wales, Australia

Marcin Paprzycki

SWPS, Poland