# 11th International Conference on e-Learning (ICEL 2016)

Kuala Lumpur, Malaysia 2 – 3 June 2016

# **Editors:**

Rozhan M. Idrus Nurkhamimi Zainuddin

ISBN: 978-1-5108-2545-1

### Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© The Authors, (2016). All Rights Reserved.

No reproduction, copy or transmission may be made without written permission from the individual authors.

Papers have been double-blind peer reviewed before final submission to the conference. Initially, paper abstracts were read and selected by the conference panel for submission as possible papers for the conference.

Many thanks to the reviewers who helped ensure the quality of the full papers.

Printed by Curran Associates, Inc. (2016)

Published by Academic Conferences and Publishing International Ltd. 33 Wood Lane Sonning Common RG4 9SJ UK

Phone: 441 189 724 148 Fax: 441 189 724 691

info@academic-conferences.org

### Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA

Phone: 845-758-0400 Fax: 845-758-2634

Email: curran@proceedings.com Web: www.proceedings.com

## Contents

Paper Title	Author(s)	Page no
Preface		iv
Committee		v
Biographies		viii
Research papers		
Efficient Instructor Feedback: Perceptions of Online UAE Undergraduate and Postgraduate Public Health Learners	Niyi Awofeso and Moyosola Bamidele	1
Dilemmas Facing Universities in Implementing Online Learning Programmes	Mammed Bagher and Aileen Sibbald	13
ICT Tools Usage's Effectiveness by Communities of Practice in Promoting Knowledge Management Innovation	Kay Bandlow and Sheryl Buckley	21
Invisible Pedagogy: Developing Learners' Self-Responsibility in Digital Environments Through Problem-Based Learning	Wendy Barber and Sherry King	26
Engagement in Online Asynchronous Discussions: Roles of Students' Interests and Preferences	Kevin Chan, Simon Lai, Hildie Leung and Kelvin Wan	32
Exploring the Experiences of Learners in a Large Scale Distance Language Learning Program Offered in Countries Across Latin America	Paula Charbonneau-Gowdy	37
Teachers' Knowledge and Technology Acceptance: A Study on the Adoption of Clickers	George Cheung, Kevin Chan, Ian Brown and Kelvin Wan	46
E-Learning in Higher Education: Challenges and Tribulations for Social Justice	Teresa Chikerema, Golden Chikari and Primrose Chikerema	52
Support for Lifelong Learning at the University of West Bohemia	Jakub Jirasko and Martin Hynek	59
Designing a Sign Language Intelligent Game-Based Learning Framework with Kinect	Teerawat Kamnardsiri, Ler-on Hongsit and Noppon Wongta	64
Evaluation of E-Learning Materials Created at the University of West Bohemia	Tomáš Keckstein, Petr Votápek and Jakub Jirásko	74
From the Other Side of Moodle/Technology in Education of Postgraduate Students' Reflections	Simon Bheki Khoza	79
Peer Interaction and Students' Perceptions Towards Constructivist-Collaborative Learning Environment: Motivation and Affective Factor	Fui-Theng Leow and Mai Neo	87
E-learning in the Teaching of Technical Disciplines	Antonín Max, Šimon Pušman and Martin Hynek	96
Mobile Tutorial System With Tablet Computer and Digital Pen	Kazuhiro Muramatsu, Yeshi Wangchuk, Karma Kelzang Eudon Chencho and Sangay Pem	102
Are my Students Ready: A Case of Flipped Learning in an IT Subject	Vincent Ng, Rufus LiFeng Huang, Lung Chi Hong and Liu KunHong	107

Paper Title	Author(s)	Page no
A Semantic web Solution for Circumventing Disparities Between Electronic-Learning Systems and Mobile-Learning Systems	Sibangiso Ngwenya, Sikhulumani Bayeza Mangena and Khesani Richard Chilumani	115
Teaching and Learning Innovations on Blackboard: What Form and Function?	Vuyisile Nkonki and Siyanda Ntlabathi	120
Robotic Workmates: Hybrid Human-Robot-Teams in the Industry 4.0	Anja Richert, Mohammad Shehadeh, Sarah Müller, Stefan Schröder and Sabina Jeschke	127
More time, more Assessments, the Impact on Programming Students in an E-Learning Environment	Dalize van Heerden	132
Cultivating Problem-Solving Skills in Malaysian Undergraduates: An Authentic Blended Learning Approach	Heidi Yeen-Ju Tan and Mai Neo	139
Transforming From Conventional Teaching Environment to Learner-Centred Teaching Environment With the use of Interactive Multimedia Module in Tertiary Education	Wei-Li Yap, Mai Neo and Tse-Kian Neo	147
Innovative Utilization of the Moodle in Postgraduate ODL Courses at Universiti Sains Islam Malaysia	Nurkhamimi Zainuddin, Rozhan Idrus and Ahmad Farid Mohd Ja- mal	157
PHD Research Papers		165
Accepting Social Networks in Learning and Teaching	Elham Akbari, Ahmad Naderi, Mahdi Hosseinzadeh Yazdi <sup>,</sup> Robert-Jan Simons and Albert Pilot	167
E-learning Strategies in the Workplace That Supports Speed to Proficiency in Complex Skills	Raman Attri and Wing Wu	176
Individualization of Pedagogical Paths via Traces Analysis	Mohamed Bendahmane, Brahim El Falaki and Mohammed Benattou	185
The Gesture Triggered Face Tracking for Enhanced e- Learning Systems	Ramkumar Narayanan, Venkat Rangan, Uma Gopalakrishnan and Balaji Hariharan	190
A Continuum of Teachers' e-Learning Practices	Osman Sadeck	198
Masters Research Papers		207
An e-Learning Environment Using Automated Development of Domain Ontology	Vidyashree B N and Sandeep Kumar	209
Effects of the Design Factors of Skill Training Game on Learning Performance and Emotio	Chun-Yi Chen <sup>,</sup> Chih-Ming Chen, Wan-Chi Hu	219
Effects of Attention Monitoring and Alarm Mechanism on Promoting e-Learning Performance	Yi-Chen Huang, Chih-Ming Chen and Jian-Cheng Guo	229
An Optimized Group Formation Scheme Considering Knowledge Level, Learning Roles, and Interaction Relationship for Promoting Collaborative Problem-Based Learning Performance	Chen-Yu Liu, Chih-Ming Chen and Chi-Hsiung Kuo	238

Paper Title	Author(s)	Page no
Assessing Effects of Information Architecture of Digital Museums on Supporting e-learning	Hsien-Chieh Sun and Chih-Ming Chen	247
Effects of Mobile Game-Based English Vocabulary Learning APP on Learners' Perceptions and Learning Performance: A Case Study of Taiwanese EFL Learners	Lin Yen, Chih-Ming Chen and Hong-Bin Huang	255
Work In Progress Paper		263
A-Z: A Recipe for a Successful MOOC	Ian Brown, Indie Chung and Anthony Ho	265
Late Submission Papers		273
e-Learning Environment Tools to Address Online and Open Distance Education Context Challenges	Leila Goosen and Dalize van Heerden	275
Information Injection in Education: Syndrome of One-Way Dialogue	Taikulakova Gulnura, Kenjebayeva Zaure, Alex Polyakov and Agashkina Irina	285