

International Conference on e-Learning 2016

Held at the Multi-Conference on Computer Science and
Information Systems (MCCSIS 2016)

Madeira, Portugal
1 – 4 July 2016

Editors:

**Miguel Baptista Nunes
Maggie McPherson
Piet Kommers**

**Pedro Isaias
Luis Rodrigues**

ISBN: 978-1-5108-6525-9

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© (2016) by International Association for Development of the Information Society (IADIS)
All rights reserved.

Printed by Curran Associates, Inc. (2018)

For permission requests, please contact International Association for Development of the Information Society (IADIS) at the address below.

International Association for Development of the Information Society (IADIS)
Rua Sao Sebastiao Da Pedreira
No. 100, 30, 1050-209
Lisbon, Portugal

Phone: 351 21 3151373

Fax: 351 21 3151244

secretariat@iadis.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: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

FOREWORD	ix
PROGRAM COMMITTEE	xiii
KEYNOTE LECTURE	xv
WORKSHOP	xvii

FULL PAPERS

DETERMINING FACTORS OF STUDENTS' PERCEIVED USEFULNESS OF E-LEARNING IN HIGHER EDUCATION <i>Aleksander Aristovnik, Damijana Keržič, Nina Tomažević and Lan Umek</i>	3
EVALCOMIX®: A WEB-BASED PROGRAMME TO SUPPORT COLLABORATION IN ASSESSMENT <i>María Soledad Ibarra-Sáiz and Gregorio Rodríguez-Gómez</i>	11
A HOLISTIC APPROACH TO SCORING IN COMPLEX MOBILE LEARNING SCENARIOS <i>Marcel Gebbe, Matthias Teine and Marc Beutner</i>	19
CONTENT DEVELOPMENT FOR 72,000 LEARNERS: AN ONLINE LEARNING ENVIRONMENT FOR GENERAL PRACTITIONERS. A CASE STUDY <i>Dirk Pilat</i>	28
FIRST STAGES OF ADULT STUDENTS' RELATIONSHIP TO SCIENTIFIC KNOWING AND RESEARCH IN THE OPEN UNIVERSITY'S WEB-BASED METHODOLOGY COURSE <i>Leena Isosomppi and Minna Maunula</i>	35
A QUANTITATIVE ANALYSIS OF THE ROLE OF SOCIAL NETWORKS IN EDUCATIONAL CONTEXTS <i>Azam Shokri and Georgios Dafoulas</i>	43
CARE MANAGEMENT: ON LINE-BASED APPROACHES TO NURSE EDUCATION IN ULTRASOUND IMAGING <i>Elena Taina Avramescu, Mitrache Marius and Adrian Camen</i>	53
CAN E-LEARNING CHANGE WORK PRACTICES? <i>Signe Schack Noesgaard</i>	61
A PRACTICE OF MOBILE LEARNING BASED ON CLOUD COMPUTING <i>Heng Wu and Zhong Dong</i>	69
GUIDELINES FOR CONDUCTING A POST-GRADUATE MODULE WITHIN A BLENDED SYNCHRONOUS LEARNING ENVIRONMENT, FACILITATOR AND STUDENT PERSPECTIVES <i>Christopher Upfold</i>	77

IT TOOLS IN INITIAL TEACHER TRAINING <i>Dorin Herlo</i>	85
APPLICATION OF A REFERENCE FRAMEWORK FOR INTEGRATION OF WEB RESOURCES IN DOTLRN – CASE STUDY OF PHYSICS – TOPIC: WAVES <i>Fabinton Sotelo Gomez and Armando Ordóñez</i>	93
CREATING MICRO-VIDEOS TO DEMONSTRATE TECHNOLOGY LEARNING <i>Mark Frydenberg and Diana Andone</i>	101
AN ANALYSIS OF STUDENTS ENROLLED TO AN UNDERGRADUATE UNIVERSITY COURSE OFFERED ALSO ONLINE <i>Nello Scarabottolo</i>	109
HOW DO WE KNOW WHAT IS HAPPENING ONLINE?: A TRIANGULATED APPROACH TO DATA ANALYSIS <i>Marina Charalampidi and Michael Hammond</i>	117
ANALYSIS OF 3D MODELING SOFTWARE USAGE PATTERNS FOR K-12 STUDENTS <i>Yi-Chieh Wu, Wen-Hung Liao, Ming-Te Chi and Tsai-Yen Li</i>	125
A DISTRIBUTED INTELLIGENT E-LEARNING SYSTEM <i>Terje Kristensen</i>	134

SHORT PAPERS

USING COGNITIVE MAPS TO PROMOTE SELF-MANAGED LEARNING IN ONLINE COMMUNITIES OF INQUIRY <i>Susi Peacock and John Cowan</i>	147
AUTOMATION IN DISTANCE LEARNING: AN EMPIRICAL STUDY OF UNLEARNING AND ACADEMIC IDENTITY CHANGE LINKED TO AUTOMATION OF STUDENT MESSAGING WITHIN DISTANCE LEARNING <i>Hilary Collins, Hayley Glover, Fran Myers and Mor Watson</i>	151
DEVELOPING THE 1 ST MOOC OF UNIVERSITY OF PORTO: CHALLENGES AND STRATEGIES <i>Isabel Martins, Nuno Regadas and Margarida Amaral</i>	156
INFORMAL LANGUAGE LEARNING IN AUTHENTIC SETTING, USING MOBILE DEVICES AND SNS <i>Ruthi Aladjem and Bibiana Jou</i>	161
ENHANCING THIRD-YEAR MEDICAL CLERKSHIPS: USING MOBILE TECHNOLOGY FOR TEACHING AND LEARNING <i>Janette R. Hill, Michelle A. Nuss, Ronald M. Cervero, Julie K. Gaines and Bruce Middendorf</i>	165
STATISTICAL MEASURES OF INTEGRITY IN ONLINE TESTING: EMPIRICAL STUDY <i>Tom Wielicki</i>	169
THE COMPLEXITIES OF DIGITAL STORYTELLING: FACTORS AFFECTING PERFORMANCE, PRODUCTION, AND PROJECT COMPLETION <i>Peter Gobel and Makimi Kano</i>	174

COLLEGEWIDE PROMOTION OF E-LEARNING/ACTIVE LEARNING AND FACULTY DEVELOPMENT <i>Nobuyuki Ogawa and Akira Shimizu</i>	179
TRAINING PORTUGUESE TEACHERS USING BLENDED LEARNING – A DIFFERENT APPROACH <i>Bertil P. Marques and Paula Escudeiro</i>	185
GAMIFY AND RECOGNIZE PRIOR LEARNING: HOW TO SUCCEED IN EDUCATORS’ FURTHER PROFESSIONAL TRAINING WITH OPEN BADGES <i>Esko Lius</i>	191
HOW DO K-12 STUDENTS’ MANAGE APPLICATIONS ON THEIR MOBILE DEVICES? <i>Ruthi Aladjem and Sharon Hardof</i>	195
DIGITAL STORYTELLING FOR INCLUSIVE EDUCATION: AN EXPERIENCE IN INITIAL TEACHER TRAINING <i>Marco Lazzari</i>	199
LEARNING FACTORY - ASSEMBLING LEARNING CONTENT WITH A FRAMEWORK <i>Peter Steininger</i>	204

REFLECTION PAPERS

EQUALIZING EDUCATIONAL OPPORTUNITIES BY ICT <i>Ana María Delgado García and Blanca Torrubia Chalmeta</i>	211
THE ACCEPTABILITY OF MOOC CERTIFICATES IN THE WORKPLACE <i>Christina Banks and Edward Meinert</i>	215
ORCHESTRATION OF SOCIAL MODES IN E-LEARNING <i>Armin Weinberger and Pantelis M. Papadopoulos</i>	219
INFORMATION COMPETENCIES AND THEIR IMPLEMENTATION IN THE EDUCATIONAL PROCESS OF POLISH UNIVERSITIES. EXPLORATORY STUDIES <i>Anna Tonakiewicz-Kolosowska, Iwona Socik and Monika Gajewska</i>	223
VIRTUAL & REAL FACE TO FACE TEACHING <i>Romeo Teneqexhi and Loreta Kuneshka</i>	227
VIRTUAL SCAFFOLDING – CONSTRUCTIVISM IN ONLINE LEARNING <i>Lachlan MacKinnon and Liz Bacon</i>	231

POSTER

ACTIVE LEARNING METHODS IN PROGRAMMING FOR NON-IT STUDENTS <i>Olga Mironova, Irina Amitan, Jüri Vilipõld and Merike Saar</i>	239
---	-----

AUTHOR INDEX