

# **14th International Conference Mobile Learning 2018**

Lisbon, Portugal  
14 – 16 April 2018

## **Editors:**

**Inmaculada Arnedillo Sanchez  
Pedro Isaias  
Luis Rodrigues**

ISBN: 978-1-5108-6768-0

**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© (2018) 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	xi
KEYNOTE LECTURE	xiii
PANEL	xiv

## FULL PAPERS

METHODOLOGY FOR BUILDING VIRTUAL REALITY MOBILE APPLICATIONS FOR BLIND PEOPLE ON ADVANCED VISITS TO UNKNOWN INTERIOR SPACES <i>Nancy Enriqueta Guerrón Paredes, Antonio Cobo, Carlos Martín and José Javier Serrano</i>	3
A MOBILE CLOUD COMPUTING BASED INDEPENDENT LANGUAGE LEARNING SYSTEM WITH AUTOMATIC INTELLIGIBILITY ASSESSMENT AND INSTANT FEEDBACK <i>Imen M. Kasrani, Miteshkumar M. Vasoya, Ashutosh Shivakumar and Yong Pei</i>	15
THE EduPARK MOBILE AUGMENTED REALITY GAME: LEARNING VALUE AND USABILITY <i>Lúcia Pombo and Margarida Morais Marques</i>	23
MOBILE LEARNING CONSIDERATIONS IN HIGHER EDUCATION: POTENTIAL BENEFITS AND CHALLENGES FOR STUDENTS AND INSTITUTIONS <i>B-Abee Toperesu and Jean-Paul Van Belle</i>	31
THE POTENTIAL USE OF SMARTPHONE AND SOCIAL NETWORKS IN PUBLIC SCHOOLS: A CASE STUDY IN NORTH OF BRAZIL <i>Eva Daltio, José Gama, George França, David Prata and Gentil Veloso</i>	39
1-DAY MOOC ON MOBILE LEARNING: AN EXPERIENCE REPORT ON THE MODULE ‘EDUCATIONAL CONTEXTS’ <i>Carla V. Leite, Ivone Almeida and Luiz Fernando Corcini</i>	47
PROMOTING INTRINSIC MOTIVATION WITH A MOBILE AUGMENTED REALITY LEARNING ENVIRONMENT <i>Josef Buchner and Jörg Zumbach</i>	55
PERSONALIZING LEARNING WITH MOBILE TECHNOLOGY IN SECONDARY EDUCATION <i>Wilfried Admiraal, Liesbeth Kester, Caressa Janssen, Mario de Jonge, Monika Louws, Lysanne Post and Ditte Lockhorst</i>	62

IDENTIFICATION OF THE PARAMETERS CONCERNING YOUNG ADULTS' TAKING EPISTEMIC RISKS IN THEIR SOCIAL MEDIA POSTS WITH ACADEMIC CONTENT <i>Remzi Y. Kincal, Osman Yilmaz Kartal and Akan Deniz Yazgan</i>	70
A SYSTEMATIC REVIEW OF LEARNING AND TEACHING WITH TABLETS <i>Lechen Zhang and Jalal Nouri</i>	79
INDIVIDUALIZATION OF INSTRUCTION USING 'SOCRATIVE' APP <i>Tatiana Prextova, Libor Klubal, Katerina Kostolanyova, Zuzana Homanova and Vojtech Gybas</i>	89
ASSESSING MOBILE INSTANT MESSAGING IN A FOREIGN LANGUAGE CLASSROOM <i>Alberto Andújar</i>	97
MOBILE LEARNING AND DIGITAL LITERACY IN THE CONTEXT OF UNIVERSITY YOUNG ADULTS <i>Georgi Apostolov and Valentina Milenkova</i>	105
SELFIE AS A MOTIVATIONAL TOOL FOR CITY EXPLORATION <i>Mark Bugeja, Alexiei Dingli and Dylan Seychell</i>	113
HOW MOBILE ARE TOP-RATED MOBILE LANGUAGE LEARNING APPS? <i>Heather Lotherington</i>	121
TOWARDS A MOBILE AUGMENTED REALITY PROTOTYPE FOR CORPORATE TRAINING: A NEW PERSPECTIVE <i>Agostino Marengo, Alessandro Pagano and Lucia Ladisa</i>	129

## SHORT PAPERS

PERSONALIZED ADAPTIVE CONTENT SYSTEM FOR CONTEXT-AWARE MOBILE <i>Ouissem Benmesbah, Lamia Mahnane and Mohamed Hafidi</i>	139
MOBILE LEARNING BASED GAMIFICATION IN A HISTORY LEARNING CONTEXT <i>Ymran Fatih, Elhard James Kumalija and Yi Sun</i>	143
A SWOT ANALYSIS OF BRING YOUR OWN DEVICES IN MOBILE LEARNING <i>Santiago Criollo-C and Sergio Luján-Mora</i>	148
THE CATEGORISATION OF THE PUPILS' WORK WITH IPAD IN A SPECIAL ELEMENTARY SCHOOL <i>Vojtěch Gybas, Kateřina Kostolányová and Libor Klubal</i>	153
WHATSAPP AS A SITE FOR MEANINGFUL DIALOGUE <i>Conor Keogh and Heydy Robles</i>	158
SOFTWARE PLATFORM FOR GAMIFICATION IN THE UNIFIED STATE EXAMINATION PREPARATION ACTIVITIES <i>Airat Khasianov and Irina Shakhova</i>	163

THE INTRODUCTION OF A PEER-EVALUATION APP FOR IN-CLASS PRESENTATIONS <i>Peter Gobel and Makimi Kano</i>	168
DYNAMIC PROGRAM VISUALIZATION ON ANDROID SMARTPHONES FOR NOVICE JAVA PROGRAMMERS <i>Elhard Kumalija, Sun Yi and Ymran Fatih</i>	173
IMPROVING MUSIC PRACTICE WITH A MOBILE LEARNING SMARTPHONE APPLICATION <i>Yuanzhu Chen, Alan Klaus, Yeni Liang and Chen Zhang</i>	178
DEVELOPMENT OF A COLORIMETRIC MEASUREMENT MOBILE APP FOR ACTIVE LEARNING IN ANALYTICAL CHEMISTRY <i>Eric H. C. Chow, Christopher Keyes, Koon-Sing Ho, Albert W. M. Lee, Wai-Yee Lee and Nga-Wing Fong</i>	183
EMERGING DOUBLE REPEATED MODEL FOR LANGUAGE LEARNING MOBILE APPS <i>Norjinbuu Baljinnyam</i>	187
COMPARATIVE STUDY OF THE CONTEXT-AWARE ADAPTIVE M-LEARNING SYSTEMS <i>Mahnane Lamia, Benmesbah Ouissem and Hafidi Mohamed</i>	193

## **REFLECTION PAPERS**

COUNTERFACTUALS, POSSIBLE WORLDS AND SMARTPHONES <i>Giuseppe Cosimo De Simone</i>	201
OPPORTUNITIES AND CHALLENGES OF USING AMAZON ECHO IN EDUCATION <i>Neil Davie and Tobias Hilber</i>	205
TACIT KNOWLEDGE IN VIRTUAL UNIVERSITY LEARNING ENVIRONMENTS <i>Cathrin Vogel, Birgit Großer, Ulrike Baumöl and Theo J. Bastiaens</i>	209
BETTER TEACHING AND MORE LEARNING IN MOBILE LEARNING COURSES: TOWARDS A MODEL OF PERSONABLE LEARNING <i>Vanessa Ament and Richard Edwards</i>	214

## **POSTER**

MAKING INNOVATION VISIBLE <i>Ilaria Bucciarelli and Elisabetta Mughini</i>	221
---	-----

## **DOCTORAL CONSORTIUM**

CELLPHONE USE AND TECHNOLOGICAL APPROPRIATION AMONG HIGH SCHOOL STUDENTS IN JALISCO, EDUCATIONAL STRATEGIES AND TIES BETWEEN FORMAL AND INFORMAL EDUCATION WITHIN A SCHOOL RANGE <i>Yesica Cecilia Núñez Berber</i>	225
MOBILE LEARNING ZIMBABWE- LECTURERS' PERCEPTIONS <i>Lydia Maketo</i>	230

## **AUTHOR INDEX**