IADIS International Conference Mobile Learning 2011

Co-located with Information Systems 2011 and E-Society 2011

Avila, Spain
10 – 12 March 2011

Editors:

Inmaculada Arnedillo Sanchez
Pedro Isaias

ISBN: 978-1-5108-1063-1

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© (2011) by the International Association for Development of the Information Society (IADIS)
All rights reserved.

Printed by Curran Associates, Inc. (2015)

For permission requests, please contact
the 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: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

FOREWORD xi

PROGRAM COMMITTEE xiii

KEYNOTE LECTURE xvii

CORPORATE SHOWCASES xix

FULL PAPERS

MOBILE ATTENDANCE AND TIME MONITORING SYSTEM FOR M-LEARNING APPLICATIONS: DESIGN AND PILOT RESULTS 3
Jacek Lewandowski and Hisbel E. Arochena

MEL: MOBILE MEDIA ENHANCED LEARNING APPLICATION 11
Janne Lahti, Erkki Siira, Matti Hiitola, Vili Törmänen and Asko Ollila

TOWARDS AN ANALYSIS FRAMEWORK TO FACILITATE INFORMAL MOBILE COLLEBORATIVE LEARNING WITH CONTEXT AWARENESS 19
Chengzhi Liu and Mamdouh Abdl h Eljueidi

TSOICHEM: MOBILE APPLICATION FOR LEARNING FUNCTIONAL GROUPS 27
Sonal Dekhane and Mai Yin Tsoi

AN ADAPTIVE & PERSONALIZED MOBILE E-LEARNING PLATFORM 35
Dimitrios Tsolis, Soultana Kampana, Paraskevi Christia and Athanasios Tsakalidis

USING PAPER PROTOTYPING AS A RAPID PARTICIPATORY DESIGN TECHNIQUE IN THE DESIGN OF MLCAT - A LECTURE PODCASTING TOOL 43
Raymond Mugwanya and Gary Marsden

ADAPTABLE MOBILE USER INTERFACES for E-LEARNING REPOSITORIES 52
Krzysztof Walczak, Jacek Chmielewski, Wojciech Wiza, Dariusz Rumiński and Grzegorz Skibiński

MOBILE WEB 2.0 INTEGRATION 62
Thomas Cochrane and Isaac Flitta

LISTENING TO AN EDUCATIONAL PODCAST WHILE WALKING OR JOGGING. CAN STUDENTS REALLY MULTITASK? 70
Joke Coens, Ellen Degryse, Marie-Paul Senecaut and Geraldine Clarebout

A MOULE EXPERIENCE AT THE UNIVERSITY OF MILANO-BICOCCA IN ITALY 77
Michelle Pieri and Davide Diamantini

HELPING STUDENTS PREPARE FOR TOEIC TESTS: MOBILE ASSISTED LANGUAGE LEARNING PRACTICES AND THE DEVELOPMENT OF SELF-REGULATED LEARNING SKILLS 85
Mutsumi Kondo, Yasushige Ishikawa, Craig Smith, Kishio Sakamoto, Hidenori Shimomura and Norihisa Wada

ETHICS IN MOBILE LEARNING - MORAL MOVEMENTS? 95
John Traxler

MOBILE LEARNING: A META-ETHICAL TAXONOMY 102
Robert Farrow

IMPLEMENTING MIXED REALITY GAMES FOR MOBILE LANGUAGE LEARNING 111
Faranak Fotouhi-Ghazvini, Era A. Earnshaw, Ali Moeini, David Robison and Peter S. Excell

CONTEXTUAL RELEVANCE IN CITY-WIDE COLLABORATIVE LEARNING 119
Mamdouh Eljueidi

EVALUATING THE AMOUNT OF AUDIO RECORDERS NEEDED IN AN M-TEL STUDY 127
Fredrik Rutz, Johan Eliasson, Robert Ramberg and Jalal Nouri

RESEARCHERS' AND TEACHERS' PERSPECTIVES ON USING MOBILE TECHNOLOGIES FOR INQUIRY-BASED LEARNING 136
Jane Yin-Kim Yau and Sadaf Salavati

MOBILE TECHNOLOGIES AND MOBILE ACTIVITIES USED BY PROSPECTIVE TEACHERS 144
Yusuf Yilmaz and Ercan Akpinar

A PERVASIVE GAME FOR FRESHMEN TO EXPLORE THEIR CAMPUS: REQUIREMENTS AND DESIGN ISSUES 151
Ulrike Lucke

A STUDY ON THE USE OF LECTURE RECORDINGS IN DIFFERENT MOBILE LEARNING SETTINGS 159
Andreas Henrich, Adrian Hub and Stefanie Sieber

AN EXPERIMENTAL STUDY TO MEASURE MOBILE LEARNING SYSTEM USABILITY AT THE AASTMT 167
Nourhan Hamdi, Rehaballah Elbadrawy and Rasha Abdel Aziz

SHORT PAPERS

A LIGHT-WEIGHT SEMANTIC CONTENT MODEL FOR MOBILE GAME BASED LEARNING 177
Boyan Bontchev and Dessislava Vassileva

MOBILE EDUTAINMENT IN THE CITY 183
Alexiei Dingli and Dylan Seychell

DEVELOPING A PEDAGOGICAL MODEL FOR DECENTRALIZED TOURISM EDUCATION 188
Hanna Vuojärvi, Miikka J. Eriksson and Heli Ruokamo

ON ACTOR-NETWORK THEORY AND LEARNING ECOSYSTEMS BASED ON MOBILE SOCIAL MEDIA 193
Jari Multisilta

THE USE OF MOBILE TECHNOLOGY AS AN AID IN THE TEACHING-LEARNING PROCESS - A CASE STUDY WITHIN A PUBLIC SCHOOL IN THE STATE OF SAO PAOLO/BRAZIL - STUDENTS ENROLLED IN THE HIGH SCHOOL LEVELS 199
Adriane Aparecida da Silva Higuchi

THE MOBILE SCIENCE-PROJECT: LIFE AFTER DEATH? 203
Rolf-Erik Østerås

DESIGNING A MOBILE LEARNING CONCEPT FOR A SECONDARY SCHOOL TOGETHER WITH STUDENTS AND TEACHERS 207
Tuula Nousiainen, Marja Kankaanranta and Jukka Varsaluoma

DEVELOPING ENGLISH READING COMPREHENSION ABILITY VIA MOBILE PHONES 212
Shudong Wang and Kozo Hirose

UNIDROID, AUGMENTED REALITY APPLICATIONS FOR ANDROID AT THE UNIVERSITY OF OVIEDO 217
Gustavo Valero Simancas, Víctor Manuel Alvarez García, Juan Ramón Pérez Pérez and MPuerto Paule Ruiz

HOW STUDENTS USE WLAN INSIDE THE CLASSROOMS: PATTERNS AND BEHAVIOR 222
Enrica Zola and Francisco Barcelo-Arroyo

EXPLORING A CITY: UNDERSTANDING SITUATED LEARNING EXPERIENCES 227
Chiara Rossitto, Ilaria Canova Calori and Monica Divitini

THE MOBILE AND INTERACTIVE LEARNING ENVIRONMENT: EVALUATING EFFICIENCY 233
Rosa Reis and Paula Escudeiro

STUDENTS' PERCEPTION TOWARDS MOBILE MOODLE PROVISION AND USAGE IN EGYPT: THE CASE OF THE ARAB ACADEMY FOR SCIENCE AND TECHNOLOGY 237
Rasha Abdel Aziz and Rehaballah Elbadrawy

M-UBUNTU A CASE STUDY OF MOBILE PHONES & LITERACY INSTRUCTION IN TWO SOUTH AFRICAN PRIMARY SCHOOLS 241
Lucy Haagen

DESIGN AND EVALUATION OF MOBILE LEARNING RESOURCES CONSIDERING STUDENT LEARNING STYLES 246
Víctor Robledo-Rella, Luis Neri, Gerardo Aguilar and Julieta Noguez

WEB VERSION OF INTELLIGENTBOX (WEBIB) FOR DEVELOPMENT OF WEB 3D EDUCATIONAL CONTENTS 251
Yoshihiro Okada

SUPPORTING LANGUAGE LEARNING USING UBIQUITOUS LEARNING LOG 256
Hiroaki Ogata, Mengmeng Li, Bin Hou, Noriko Uosaki and Yoneo Yano

M-VOICE LEARNING, A VOICE-BASED LEARNING EXPERIENCE 261
David Maniega Legarda and Jose López Ruiz

PBL2U: A PROJECT-BASED LEARNING UBIQUITOUS PLATFORM FOR UNIVERSAL CLIENT 266
Sam Rottenberg, Claire Lecocq and Sébastien Leriche

USING FAMILIAR TECHNOLOGIES IN THE DESIGN OF MOBILE PHONE LEARNING 271
Debora Barnesa and Alex Greenwood

REFLECTION PAPERS

EMOTIONAL MAPPING OF A PLACE OF INTEREST USING MOBILE DEVICES FOR LEARNING 277
Giuliana Guazzaroni and Tommaso Leo

MOBILE LEARNING RESEARCH: CAUGHT BETWEEN DIFFERENT PARADIGMS 282
J. Sandberg and M. Maris

UMNIVERSITY PLATFORM - FOUR INTEGRATION VECTORS TOWARDS MOBILE LEARNING 287
Francisco Reis and Ricardo Malheiro

INTEGRATING M-LEARNING IN A BROAD CONTEXT: ISSUES AND RECOMMENDATIONS 291
Gerald C. Gannod and Kristen M. Bachman

THINKING STRATEGICALLY ABOUT MOBILE LEARNING (FOR THE FIRST TIME?) 295
Bruce M. Taggart

POSTERS

IS PERFORMANCE INFLUENCED BY AUTONOMOUS VS CONTROLLED MOTIVATION IN MULTITASKING? 301
Marie-Paul Senecaut, Joke Coens and Geraldine Clarebout

HIGH SCHOOL TEACHERS FACE THE CHALLENGE OF INTEGRATING THE MOBILE PHONE IN THE CLASSROOM 304
Francisco Brazuelo Grund

FUTURE CONCEPTS FOR UNIVERSITY TEACHING AND LEARNING 307
Ghislain Maurice Norbert Isabwe, Halvard Øysæd and Frank Reichert

A CRITICAL ANALYSIS OF M-LEARNING INITIATIVES 310
Kristen M. Bachman and Gerald C. Gannod

EFFECTS ABOUT MOVIES OF INSTRUCTORS IN MULTIMEDIA MOBILE LEARNING CONTENTS 313
Yuki Watanabe, Norio Setozaki, Yusuke Morita, Hiroshi Kato and Akinori Nishihara

DISTANCE LEARNING IN THE ARCTIC WILDERNESS OF NORTH EAST GREENLAND 316
Rikke Langebaek

AN ARCHITECTURAL APPROACH TO SUPPORT MULTI-DEVICE LEARNING ENVIRONMENTS 319
Adam Giemza and Marc Jansen

EXPERT ANALYSIS TOWARDS A MOBILE E-LEARNING PLATFORM 322
Fran Wirl and Monika Andergassen

EDUCATION IN MOTION: LOCATION-BASED LEARNING 325
Cory Schmitt and Obinna Otti

STUDY ON THE EFFECTS OF TOOLS ON WRITING: ANALYSIS OF PRODUCED SENTENCES 327
Yukiko Maruyama

DOCTORAL CONSORTIUM

MOBILE LEARNING IN HIGHER EDUCATION 333
Lucretia M. Fraga

AUTHOR INDEX