

INTED **2014**

**8TH INTERNATIONAL
TECHNOLOGY,
EDUCATION AND
DEVELOPMENT CONFERENCE**



**CONFERENCE
PROCEEDINGS**

Published by
IATED Academy
www.iated.org

INTED2014 Proceedings
8th International Technology, Education and Development Conference
March 10th-12th, 2014 — Valencia, Spain

Edited by
L. Gómez Chova, A. López Martínez, I. Candel Torres
IATED Academy

ISBN: 978-84-616-8412-0
ISSN: 2340-1079
Depósito Legal: V-534-2014

Book cover designed by
J.L. Bernat

All rights reserved. Copyright © 2014, IATED

The papers published in these proceedings reflect the views only of the authors. The publisher cannot be held responsible for the validity or use of the information therein contained. Some conference presentations may not be available for publication.

COMPUTER-BASED TOOLS FOR THE ASSESSMENT OF LEARNING PROCESSES IN HIGHER EDUCATION: A COMPARATIVE ANALYSIS	976
<i>J.M. Fuentes-Pardo, A.I. García, Á. Ramírez-Gómez, F. Ayuga</i>	
MOTIVES AND CAREER ASPIRATIONS OF BUILDING ENGINEERING STUDENTS WITH A GENDER PERSPECTIVE	985
<i>E. Navarro-Astor, B. Millán Romeo</i>	
APPLICATION OF SMARTPHONES AS TEACHING AIDS IN PHYSICS IN UNDERGRADUATE FIRST YEAR COURSES	994
<i>C. Rubio, P. Candelas, A. Page, F. Belmar</i>	
THE POTENTIAL OF OPEN EDUCATIONAL RESOURCES FOR TEACHING UNDERGRADUATE STUDENTS	1003
<i>A. Marcus-Quinn, I. Clancy</i>	
GENERIC COMPETENCIES ACQUISITION IN FIRST YEAR UNDERGRADUATE COURSES. DEVELOPMENT OF MOBILE PHONE HOME EXPERIMENTATION	1004
<i>P. Candelas, C. Rubio, F. Belmar, A. Page</i>	
SCAFFOLDING LEARNERS IN CLIL LESSONS	1013
<i>D. Gondová</i>	
IMPROVING TEACHING AND LEARNING THROUGH COMPETENCE ASSESSMENT AND DEVELOPMENT. A STUDY OF FIRST YEAR STUDENTS	1021
<i>M. Alcalà, A. Bikfalvi, F. Julián, F.X. Espinach</i>	
BUILDING INTER-DISCIPLINARY COMPETENCE IN IMAGE ANALYSIS AND SPATIAL STATISTICS THROUGH COLLABORATIVE ONLINE LEARNING AND REMOTE FIELD TRIPS	1029
<i>R. Williams, A. Purser, S. Lund</i>	
ARE YOU LOOKING FOR WORK? LET'S DO IT TOGETHER. A SERVICE-LEARNING PROJECT AT THE HIGH SCHOOL	1038
<i>N. Guinot, L. Moliner</i>	
THE TKT: HOW HAS IT CONTRIBUTED TO OMANI TEACHERS' CPD	1044
<i>M. Al-Maqbali, R. Al-Risi</i>	
THE IMPORTANCE AND VIABILITY OF FOSS IN VIDEOGAME PRODUCTION	1052
<i>N. Lourosa, M. Dias, P. Tavares, N. Gonçalves</i>	
ENGAGING STUDENTS THROUGH BLENDED LEARNING: IMPROVING CLASS ATTENDANCE AND PARTICIPATION	1058
<i>R. Collins, O. Daly</i>	
EXPERIENCE IN THE ORGANIZATION OF CAREER DEVELOPMENT TARGETED STUDENTS OR GRADUATES OF DIFFERENT DEGREES	1063
<i>M.E. Morales, M.A. Ruiz, C. Cabrera</i>	
THE ICT COORDINATOR: TECHNOLOGY CHAMPION OR MAINTENANCE TECHNICIAN? IMPLICATIONS FOR ICT LEADERSHIP IN SCHOOLS	1067
<i>O. McGarr, A. McDonagh</i>	
DRIVERS OF DEMAND AND PATIENT SATISFACTION IN SAUDI ARABIAN HEALTHCARE SERVICES	1075
<i>N. Alhatlani, M. AlTimyat, A. Allshowaier, A. Binhussain, H. Alhakhbani, M. Ferrer, R. Santa</i>	
MASTER MOB - MULTIMEDIA APPROACH FOR A SUSTAINABLE TRAINING IN A EUROPEAN ROUTE FOR MOBILITY	1076
<i>J. Guerrero Caballero, E. Silva, H. El Kachai</i>	
SELF-ASSESSMENT MODULE FOR THE STUDENTS OF "AUTOMATA AND DISCRETE MATHEMATICS"	1085
<i>M.A. González, C. Mencía, C. Vela, I. Díaz</i>	
DOES PMATE HELP STUDENTS TO BE MORE AUTONOMOUS IN THE LEARNING OF MATHEMATICAL SUBJECTS AT UNIVERSITY LEVEL?	1094
<i>S. Pais, I. Cabrita, A. Anjo</i>	
UNDERSTANDING THE PHYSICS OF MOTION THROUGH MOBILE APPS	1103
<i>L. Martínez-León, M. Fernández-Alonso, J. Lancis, E. Tajahuerce, G. Mínguez-Vega, V. Durán, V. Climent, N.S. Ferriols, J. Pérez-Vizcaíno, P. Clemente, O. Mendoza-Yero, D. Campos-Abad</i>	
SYSTEMATISATION OF THE FOLLOW-UP METHODOLOGY OF FINAL DEGREE PROJECT (FDP)	1111
<i>M. March, M.A. Gomila, M. Vives Barceló, J. Amer, R. Pozo</i>	
EPORFOLIOS OR CASE OF STUDY? REFLEXIONS FROM A LEARNING EXPERIENCE IN HIGHER EDUCATION	1115
<i>M. Vives Barceló</i>	

[ABOUT IATED](#)[CONFERENCES](#)[PUBLICATIONS](#)[IATED TALKS](#)[DIGITAL LIBRARY](#)[BOOKSHOP](#)[MAILING LIST](#)[CONTACT US](#)[LOGIN](#)

All fields:

Paper title:

[25 hits per page](#)

Authors:

Keywords:

[Sort by relevance](#)[Search](#)[Clear](#)

Fulltext search

About this paper**Appears in:**
INTED2014 Proceedings
([browse](#))**Pages:** 1094-1102
Publication year: 2014
ISBN: 978-84-616-8412-0
ISSN: 2340-1079**Conference name:** 8th
International Technology,
Education and Development
Conference**Dates:** 10-12 March, 2014
Location: Valencia, Spain**Citation download:**
([BibTeX](#)) ([ris](#)) ([plaintext](#))**Other publications by the
authors:**
([search](#))**Buy the publication:**
([bookshop](#))**Upcoming event:**

- [Announcement](#)
- [Submit your abstract now](#)

PROCEEDINGS INDEXED IN
WEB OF KNOWLEDGE™**DOES PMATE HELP STUDENTS TO BE MORE AUTONOMOUS IN THE
LEARNING OF MATHEMATICAL SUBJECTS AT UNIVERSITY LEVEL?**S. Pais¹, I. Cabrita², A. Anjo²¹Instituto Politécnico de Leiria (PORTUGAL)²Universidade de Aveiro (PORTUGAL)

Since 1989, the Mathematics Education Project (Pmate – Projecto Matemática Ensino) has developed several strategies to increase the interest and improve the success of students in Mathematics. Pmate developed a platform of computer aided education (PCA), currently available only in the internet, including all grades since primary school. The main goal of this platform is to support teaching, being a tool that allows: the management of the groups involved; the elaboration of tests; the research of student performance; the analysis of results and other functionalities of management. The developed programs are a tool to support education, evaluation and learning.

However, this platform has not yet been subject to a systematic evaluation, especially at the superior education level, that will allow us to conclude whether its goals have been achieved.

From this standpoint, we develop a case study with Science Food Engineering students. In this article, we discuss the resonance of the platform of computer aided education (PCA) developed for the Pmate in terms of the autonomy skills development. This paper describes how it is conceived as well as the main results. We concluded that, although recognized the platform potential, a considerable number of students preferred a more traditional approach.

keywords: information and communication technologies, education, mathematics, autonomy, pmate.