

OTH INTERNATIONAL CONFERENCE OF EDUCATION,
RESEARCH AND INNOVATION

CONFERENCE PROCEEDINGS

SEVILLE, SPAIN 18-20 NOVEMBER 2013



OTH INTERNATIONAL CONFERENCE OF EDUCATION,
RESEARCH AND INNOVATION

CONFERENCE PROCEDINGS

SEVILLE, SPAIN 18-20 NOVEMBER 2013

Published by

International Association of Technology, Education and Development (IATED) www.iated.org

ICERI2013 Proceedings

6th International Conference of Education, Research and Innovation November 18th-20th, 2013 — Seville, Spain

Edited by

L. Gómez Chova, A. López Martínez, I. Candel Torres International Association of Technology, Education and Development IATED

ISBN: 978-84-616-3847-5

ISSN: 2340-1095

Depósito Legal: V- 2798-2013

Book cover designed by J.L. Bernat

All rights reserved. Copyright © 2013, 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.

WELCOME INTRODUCTION

Dear ICERI2013 participants,

It is a pleasure to welcome you all to the 6th International Conference of Education, Research and Innovation.

Thank you for coming to this inspiring forum of knowledge exchange. Some of you have travelled form very far to attend this conference. In fact, ICERI2013 has brought together nearly 700 delegates from over 75 countries.

ICERI2013 aims to be a dynamic conference where you will benefit from the great variety of topics and presentations. The program will offer parallel sessions covering all aspects of learning, teaching and educational technology. You will be exposed to many diverse projects and experiences in a multidisciplinary and truly international atmosphere. Also, the social events will promote the interaction with other colleagues with the same aim as you: learning from others and sharing their best practices and experiences.

Finally, you should take some time to discover the attractive city of Seville and its mixture of cultures. The colors, sounds, emotions, feelings, smiles and aromas in Seville will captivate your senses.

Thank you again for attending ICERI2013. We wish you a fruitful and unforgettable conference.

ICERI2013 Organising Committee

ICERI2013 COMMITTEE AND ADVISORY BOARD

Adam Loveday-Edwards	UNITED KINGDOM	Karen Graham	UNITED STATES
Agustín López		Kevin Sludds	IRELAND
Aharon Gero		Kinley Kinley	DENMARK
Akemi Matsuya		Kurt Kirstein	UNITED STATES
Allen Grant	UNITED STATES		SOUTH AFRICA
Amparo Girós		Liam Morgan	AUSTRALIA
Ana Tomás		Lorena López	SPAIN
Andrew Csizmadia	UNITED KINGDOM	•	ITALY
Antonio García		Luis Gómez Chova	SPAIN
Ato Essuman		Mª Jesús Suesta	SPAIN
Bhoumik Deshmukh		Marcelo Chanes	BRAZIL
Candido Hernandez Limon	MEXICO	Maria Porcel	SPAIN
Chelo González	SPAIN	Marianne Georgsen	DENMARK
Chikako Takahashi		Mary-Kathryn Zachary	UNITED STATES
Cristina Lozano		Michael Wagner	UNITED STATES
Dana Ruggiero	UNITED KINGDOM	-	AUSTRALIA
Daniel Munteanu	ROMANIA	Miroslav Petrov	SWEDEN
Daniel Wong	UNITED STATES	Mónica Fernández	SPAIN
David Martí	SPAIN	Monica Xavier	PHILIPPINES
David Prescott	UNITED ARAB EMIRATES	Nazan Celik Brutscher	TURKEY
Denisse López Benavides	GERMANY	Nelu Wolfensohn	CANADA
Donald Sturge	JAPAN	Norma Barrachina	SPAIN
Dylan Adams	UNITED STATES	Olga Teruel	SPAIN
Eladio Duque		Panagiota Katsikouli	GREECE
Eugene Monaco	UNITED STATES	Patrick Howard	CANADA
Fergus Timmons	IRELAND	Pauline Morgan	UNITED KINGDOM
Gifty Oforiwaa Gyamera	UNITED KINGDOM	Peter Haber	AUSTRIA
Heather Hamerton	NEW ZEALAND	Phil Holifield	UNITED KINGDOM
Heather McCune Bruhn	UNITED STATES	Piet van der Zanden	NETHERLANDS
Helmut Wöllik	AUSTRIA	Ranil Peiris	SWEDEN
Ignacio Ballester	SPAIN	Rentaro Yoshioka	JAPAN
Ignacio Candel	SPAIN	Roger C. E. Tan	SINGAPORE
Ismael Serrano	SPAIN	Roman Dorczak	POLAND
Iván Martínez	SPAIN	Rosalie Sitman	ISRAEL
Javier Domenech	SPAIN	Salah Arafa	EGYPT
Javier Martí	SPAIN	Saudah Sofian	MALAYSIA
Joanna Lees	FRANCE	Sawsen Lakhal	CANADA
John Puthenkalam	JAPAN	Sayuri Yoshizawa-Watanabe	JAPAN
John Wilson	JAPAN	Sergio Pérez	SPAIN
Jose F. Cabeza	SPAIN	Ute Ihme	GERMANY
Jose Luis Bernat	SPAIN	Uwe Wendt	GERMANY
Julie Bytheway	NETHERLANDS	Viorica Banciu	ROMANIA
Kamila Hernik	POLAND	Xavier Lefranc	FRANCE

CONFERENCE SESSIONS

ORAL SESSIONS, 18th November 2013.

Social Media in education (1)

Experiences in Undergraduate education (1)

Innovations in STEM Education

In-service training and Professional development of teachers (1)

Meet the Keynote Speakers

Accreditation and Quality Assurance

New Trends and Experiences in Health Sciencies education (1)

Research and Education in Architecture (1)

Language Learning Innovations (1)

MOOCs (Massive Online Open Courses)

Experiences in Undergraduate education (2)

Experiences in Primary and Secondary education (1)

Pre-service teacher experiences (1)

Educational Software and Serious Games

Accreditation and Quality Assurance: Evaluation and Assessment

Technology in Health Sciencies education (1)

Research and Education in Architecture (2)

Experiences and trends in Foreign Languages education (1)

VLEs and Virtual Universities

Learning space design

Experiences in Primary and Secondary education (2)

Pre-service teacher experiences (2)

Employability and Entrepreneurship

Experiences in Special education (1)

Technology in Health Sciencies education (2)

Curriculum Design and Quality Assurance in Architecture

Teacher training in language learning

Social Media in education (2)

Collaborative and peer-to-peer learning

Technology in Primary and Secondary education

In-service training and Professional development of teachers (2)

University-Industry-Government Cooperation

Experiences in Special education (2)

New Trends and Experiences in Health Sciencies education (2)

Trends and experiences in Business Administration education

Language Learning Innovations (2)

POSTER SESSIONS, 18th November 2013.

Poster Session 1. Education Practice Trends and Issues

Poster Session 2. New Trends and Experiences in Education

ORAL SESSIONS, 19th November 2013.

m-Learning

Research: New Trends and Experiences

Assessment of student learning (1)

Trends and experiences in Primary and Secondary education

Technology in Teaching and Learning (1)

Managing Cultural Diversity and educational inclusion (1)

Experiences in Undergraduate education (3) New technologies in Engineering education

Student Support in education

Flipped Classroom

International Projects and Cooperation

Assessment of student learning (2)

Teacher Training in Primary and Secondary education

Technology in Teaching and Learning (2)

Managing Cultural Diversity and educational inclusion (2)

Educational trends and best practice contributions (1)

Lifelong learning and informal learning

Parental and Community involvement in education

e-learning experiences

International Projects and Joint Programmes

Assessment of student learning (3)

Schools and University Leadership

Technological Innovations in Teaching and Learning

Global, social and legal issues in education

Educational trends and best practice contributions (2)

New experiences in Mathematics education

Language Learning Assessment

E-content Management and Development

Links between Education and Research

Experiences and Strategies for Curriculum design

In-service training and Professional development of teachers (3)

Learning Management Systems (LMS)

Experiences in Post-graduate education

Educational trends and best practice contributions (3)

New Trends and Experiences in Adult education

New technologies in Foreign Languages education (1)

Blended Learning

Organizational, economic and financial aspects in Education

New Challenges in the Higher Education Area

Pre-service teacher experiences (3)

Teacher's perception of ICT

Open and Distance Education

Educational trends and best practice contributions (4)

New trends in Adult and Vocational training

New technologies in Foreign Languages education (2)

POSTER SESSIONS, 19th November 2013.

Poster Session 1. Technology in Education and International Projects

Poster Session 2. New Challenges in Education and Research

VIRTUAL SESSIONS

Academic Advising and Tutoring

Academic Research Projects

Adult education

Assessment of student learning

Barriers to Learning

Curriculum Design

E-content Management and Development

e-learning experiences

Education practice trends and issues

Education, Research and Globalization

Educational/Serious Games and Software

Experiences in Post-graduate education

Experiences in Primary and Secondary education

Experiences in Undergraduate education

Government Policy and Ethical issues in Education

ICT Skills Education

International Projects

Language Learning Innovations

Learning and Teaching Innovations

Learning Management Systems (LMS)

Life-long learning education

Links between Education and Research

Mobile Applications and Technologies

New Challenges in the Higher Education Area

Quality Assurance

Research Management

Research Methodologies

Research on Technology in Education

Student Support in Education

Teacher Training: In-service and Pre-service teacher experiences

University-Industry Cooperation

Videos for Learning and Educational Multimedia

Virtual and Augmented Reality

Virtual Learning Environments (VLE)

Vocational training

Web 2.0 and Social Networking