

EDUCATION,
RESEARCH AND
INNOVATION



SEVILLE (SPAIN)
16-18 NOVEMBER 2015



8TH INTERNATIONAL CONFERENCE OF EDUCATION, RESEARCH AND INNOVATION

CONFERENCE PROCEEDINGS

SEVILLE (SPAIN)
16-18 NOVEMBER 2015

Published byIATED Academy iated.org

ICERI2015 Proceedings

8th International Conference of Education, Research and Innovation November 16th-18th, 2015 — Seville, Spain

Edited by

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

ISBN: 978-84-608-2657-6

ISSN: 2340-1095

Depósito Legal: V-2722-2015

Book cover designed by J.L. Bernat

All rights reserved. Copyright © 2015, 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.

WELCOME INTRODUCTION

Dear ICERI2015 participants,

It is a pleasure to welcome you all to this eighth edition of ICERI.

"Facing the challenges of Education" is the main theme of this year's ICERI, as it sets the agenda for an in-depth discussion of the most important questions facing those in education today: How education should be provided? What are the newest learning methodologies? How can we learn in an innovative way? In a world of rapid technological changes, how can we adapt to the changes in its due time?

All these questions and many more will be debated in the different interactive and thematic sessions. They will provide an excellent opportunity to acquire skills and get new ideas from different perspectives and innovative approaches in education around the world.

Every year, ICERI intends to bring together educational experts from all corners of the world. This year, it is a pleasure to welcome over 600 participants from more than 75 countries world-wide. This will ensure an international atmosphere that will enrich the conference program and networking activities.

We hope that joining ICERI2015 will provide you with an opportunity to share your experiences, learn from other educational innovations and meet new colleagues for future cooperation.

Thank you very much for your participation at ICERI2015. We hope you enjoy your time with us!

Thank you very much for your valuable contribution to ICERI2015!

ICERI2015 Organising Committee

ICERI2015 COMMITTEE AND ADVISORY BOARD

Aaron Doering	UNITED STATES	Iose F. Cabeza	SPAIN
Adolfo Tanzi Neto		Jose Luis Bernat	SPAIN
Agustín López		Juan Carlos Escalante	MEXICO
Alessandro Bogliolo		Kaye Price	AUSTRALIA
Ali Merç		Lilian Bacich	BRAZIL
Amir Dirin		Lorena López	SPAIN
Amparo Girós		Luis Gómez Chova	SPAIN
Ana Tomás	SPAIN	Mª Jesús Suesta	SPAIN
Andreas Fili		Maria Porcel	SPAIN
Andrew Youde	UNITED KINGDOM	Mario Pace	MALTA
Ann-Nina Maksimainen	FINLAND	Martin Nordell	FINLAND
Antonio García	SPAIN	Mehmet Bardakçı	TURKEY
Benedict O'Donnell		Melania Tera	ROMANIA
Bernard Etlicher	FRANCE	Michelle Ellwood	UNITED KINGDOM
Chelo González	SPAIN	Nadja Soldatic	SERBIA
Christos Rodosthenous	CYPRUS	Natalie Brown	AUSTRALIA
Connie Ng	SINGAPORE	Nicholas Peter Stanley	AUSTRALIA
Cristina Lozano	SPAIN	Nigel Atkinson	UNITED KINGDOM
David Martí	SPAIN	Nijole Putriene	LITHUANIA
Deborah Azaryad Shechter	ISRAEL	Nilson Kunioshi	JAPAN
Dorota Piotrowska	POLAND	Norma Barrachina	SPAIN
Eladio Duque	SPAIN	Olga Teruel	SPAIN
Emeka Emmanuel Obioha	SOUTH AFRICA	Ozlem Zengin Unal	TURKEY
Emmi Pakkala	UGANDA	Pablo Opazo	CHILE
Euisuk Jeong	REPUBLIC OF KOREA	Panadda Thanasetkorn	THAILAND
Flaminia Del Conte	UNITED KINGDOM	Paul Leslie	UNITED ARAB EMIRATES
Florin Mihai	ROMANIA	Peter Amosun	NIGERIA
Fredy Olarte	COLOMBIA	Peter Haber	AUSTRIA
Fumito Yoshikawa	JAPAN	Pierre Mora	FRANCE
Galina Molodtsova	RUSSIAN FEDERATION	Priscila Fernandes	BRAZIL
Giles Pepler	UNITED KINGDOM	Raine Valli	FINLAND
Harald Haugen	NORWAY	Rebecca Ferriday	UNITED KINGDOM
Ignacio Ballester	SPAIN	Sergio Pérez	SPAIN
Ignacio Candel	SPAIN	Sharon Judge	UNITED STATES
Ingibjörg Frimannsdottir	ICELAND	Slavka Tzanova	BULGARIA
Inma Tomás	SPAIN	Smaragda Chrysostomou	GREECE
Ioana Carmen Paraschiv	ROMANIA	Stephanie Linek	GERMANY
Ismael Serrano	SPAIN	Svetlana Bekareva	RUSSIAN FEDERATION
Iván Martínez	SPAIN	Teodor Popa	ROMANIA
Javier Domenech	SPAIN	Victor Fester	NEW ZEALAND
Javier Martí		Wiley Davi	UNITED STATES
Jean-Paul Becar		Xavier Lefranc	FRANCE
Joanna Lees	FRANCE	Zuzana Palkova	SLOVAKIA

CONFERENCE SESSIONS

ORAL SESSIONS, 16th November 2015

Massive Open Online Courses (MOOC)
Meet the Keynote
Employability Issues and Trends (1)
Teacher Training Experiences
Assessment of Student Learning
Gender Issues in Education
Teacher Training in Foreign Languages
Experiences In Civil Eng. and Architecture Education

Social & Digital Media in Education Advanced and Mobile Educational Technologies Employability Issues and Trends (2) Pre-service Teacher Experiences (1) Game-based Learning Inclusive Learning Technology in Foreign Languages (1) Experiences in Arts & Humanities Education

Digital Skills
Videos for Learning and Educational Multimedia
Workplace Training and Employability
Pre-service Teacher Experiences (2)
Collaborative and Project-based Learning
ICT in Special Education
Pedagogical Methods and Experiences (1)
Government Policy issues in South African Schools

e-learning Experiences (1)
Experiences in Programming and Computer Science Learning
ICT Skills and Workplace Learning
In-service Training and Professional Development of Teachers
Collaborative Learning Environments
Special and Inclusive Education
Experiences in Engineering Education
Teachers Leaders in an African Context

POSTER SESSIONS, 16th November 2015

New Trends and Experiences in Education

Teaching and Training Experiences

ORAL SESSIONS, 17th November 2015

e-learning Experiences (2)
Technology in Teaching and Learning (1)
Adult and Vocational Education
Pedagogical Methods and Experiences (2)
Entrepreneurship Education Experiences
Experiences in Secondary and Higher Education
New Trends and Experiences in Postgraduate Education
Curriculum Design

Blended Learning
Technology in Teaching and Learning (2)
ICT in Adult Education
Problem Based Learning in Higher Education
Social Entrepreneurship
Cultural Diversity in Secondary Education
Links between Education and Research (1)
Experiences in Health Sciences Education

Flipped Learning & Flipped Classroom
Technology in Teaching and Learning (3)
Management and Organizational Issues in Education
Teacher Training in STEM Education
University-Industry Cooperation
Pedagogical Experiences in Secondary Education
Links between Education and Research (2)
Leadership and University Administration

Learning Analytics and Intelligent Tutoring Systems
Technology in Foreign Languages (2)
International Cooperation and Mobility Programmes
Professional Development of Teachers (1)
Non-formal Education
Technology Enhanced Learning in Primary and Secondary Education
Experiences in STEM Education
Government and Administration Issues in Secondary Education

New Trends in Online Learning
Foreign Language Learning
Accreditation and Quality in Education
Professional Development of Teachers (2)
Student Support & Tutoring
Experiences in Primary and Secondary Education
Barriers to Learning
School Leadership

POSTER SESSIONS, 17th November 2015.

Technology and Research in Education

New Challenges in Education

VIRTUAL SESSIONS

Academic Research Projects

Accreditation and Quality in Education

Adult education

Advanced classroom applications and ICT Skills

Assessment of student learning

Blended Learning and Flipped Classroom

Collaborative and Problem-based Learning

Cultural Diversity and Inclusive Learning

Curriculum Design

E-content Management and Development

e-learning experiences

Education practice trends and issues

Education, Research and Globalization

Emerging Technologies in Education

Employability issues and trends

Ethical issues in Education

Experiences in Post-graduate education

Experiences in Primary and Secondary education

Experiences in Undergraduate education

Game-based learning and Gamification

Global Issues in Education and Research

In-service training and Professional development of teachers

International Projects

Language Learning Innovations

Learning and Teaching Innovations

Life-long learning

Links between Education and Research

m-Learning: mobile applications and technologies

Massive Open Online Courses (MOOC)

New Challenges for the Higher Education Area

Online/Virtual Laboratories

Pedagogical Methods and Innovations

Pre-service teacher experiences

Research on Technology in Education

Special education

STEM Education Experiences

Student Support in Education

Teacher Training experiences

University-Industry Cooperation

Virtual Learning Environments (VLE)

Vocational training