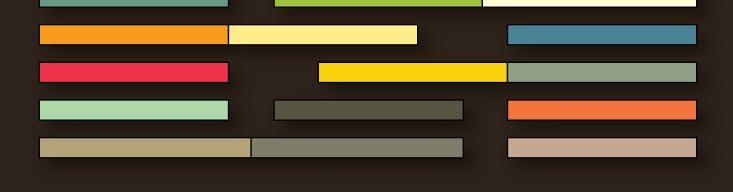
EDULEARN₁₇

9TH INTERNATIONAL CONFERENCE ON EDUCATION AND NEW LEARNING TECHNOLOGIES

BARCELONA (SPAIN) 3RD - 5TH OF JULY, 2017



CONFERENCE PROCEEDINGS



EDULEARN₁₇

9TH INTERNATIONAL CONFERENCE ON EDUCATION AND NEW LEARNING TECHNOLOGIES BARCELONA (SPAIN) 3RD - 5TH OF JULY, 2017

CONFERENCE PROCEEDINGS

Published byIATED Academy iated.org

EDULEARN17 Proceedings

9th International Conference on Education and New Learning Technologies July 3rd-5th, 2017 — Barcelona, Spain

Edited by

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

ISBN: 978-84-697-3777-4

ISSN: 2340-1117

Depósito Legal: V-1538-2017

Book cover designed by J.L. Bernat

All rights reserved. Copyright © 2017, 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.

EDULEARN17 COMMITTEE AND ADVISORY BOARD

Agnes Kriz	AUSTRIA	Jose Luis Bernat	SPAIN
Agustín López	SPAIN	Josephine Desouza	UNITED STATES
Aislinn Joy		Karen Stansberry Beard	UNITED STATES
Alan Garfield	UNITED STATES	Kari Björn	FINLAND
Aleksandra Kulpa-Puczynska	POLAND	Katy Salisbury	UNITED KINGDOM
Amparo Girós	SPAIN	Lorena López	SPAIN
Ana Mouta Costa	PORTUGAL	Luis Gómez Chova	SPAIN
Ana Paula Lopes	PORTUGAL	Mª Jesús Suesta	SPAIN
Ana Tomás	SPAIN	Marco Ronchetti	ITALY
Ann Cotton	UNITED KINGDOM	Marek Nałęcz	POLAND
Antonio García	SPAIN	Margaret Mackay	UNITED KINGDOM
Beata Godejord	NORWAY	Marge Täks	ESTONIA
Béatrice Arend	LUXEMBOURG		SPAIN
Bernadette Musetti	UNITED STATES	Maria ReGester	UNITED STATES
Bob Ives	UNITED STATES	Martha Ioannidou	GREECE
Brad Curabba	UNITED ARAB EMIRATES	Michael Cronin	ITALY
Chelo González	SPAIN	Michal Palko	SLOVAKIA
Chinonye Moses	NIGERIA	Miltiadis Lytras	GREECE
Chris Schaben	UNITED STATES	Mónica Fernández	SPAIN
Cristina Lozano	SPAIN	Norma Barrachina	SPAIN
Dace Namsone	LATVIA	Olga Teruel	SPAIN
David Dennison	UNITED KINGDOM	Olyesya Razdorskaya	RUSSIAN FEDERATION
David Martí	SPAIN	Panagiotis Fotaris	UNITED KINGDOM
Dragos Tataru	ROMANIA	Patricia Hind	UNITED KINGDOM
Eladio Duque	SPAIN	Paula Cordeiro	UNITED STATES
Emine Kuluşaklı	TURKEY	Peter Haber	AUSTRIA
Fatema Hussain	SINGAPORE	Piotr Berkowski	POLAND
Garold Zborovsky	RUSSIAN FEDERATION	Robert Gable	UNITED STATES
Graham Lowe	UNITED KINGDOM	Robert Workman	UNITED STATES
Helen Osieja	SWEDEN	Sabina Maraffi	ITALY
Helena Germano	PORTUGAL	Sebastian Hobert	GERMANY
Hen Friman	ISRAEL	Sergio Pérez	SPAIN
Ignacio Ballester	SPAIN	Shaun Speed	UNITED KINGDOM
Ignacio Candel	SPAIN	Sophie Hollows	PAKISTAN
Ilmars Kreituss	LATVIA	Sotirios Skevoulis	UNITED STATES
Ingolf Waßmann	GERMANY	Stephen Cheskiewicz	UNITED STATES
Isabel Huet	UNITED KINGDOM	Syed Munib Hadi	UNITED KINGDOM
Iván Martínez	SPAIN	Thomas Rachfall	GERMANY
Javier Domenech	SPAIN	Victor Fester	NEW ZEALAND
Javier Martí	SPAIN	Vidar Gynnild	NORWAY
Joanna Lees	FRANCE	Wendy Gorton	UNITED STATES
Jose F. Cabeza	SPAIN	Xavier Lefranc	FRANCE

CONFERENCE SESSIONS

ORAL SESSIONS, 3rd July 2017

MOOCs: Massive Open Online Courses (1)
Online Assessment (1)
Serious and Educational Games (1)
Augmented Reality & 3D Experiences
University-Industry Cooperation (1)
Distance Learning
STEM in Primary and Secondary Education
Professional Development of Teachers (1)
Coding & Programming in Schools
Technology Enhanced Health Sciences Education

MOOCs: Massive Open Online Courses (2) Online Assessment (2) Serious and Educational Games (2) Virtual Reality Experiences University-Industry Cooperation (2) Personal Learning Environments STEM in Higher Education 21st Century Skills New Platforms to Teach Coding Skills Experiences in Engineering Education

Learning Analytics
Quality Assurance & Evaluation
Game-based Learning & Gamification (1)
Videos for Learning
Entrepreneurship
Educational Trends & Best Practices (1)
Technology Enhanced Maths Learning
ICT Skills and Competences among Teachers (1)
Computer Science Education
CLIL Experiences in Foreign Languages

Open Educational Resources
Quality Assurance in Higher Education
Game-based Learning & Gamification (2)
Educational Software and Videos
Employability & Workplace Training
Technology Enhanced Learning (1)
Maths in Primary & Secondary Education
ICT Skills and Digital Literacy
Leading Institutional Change
New Trends in Health Sciences Education

POSTER SESSIONS, 3rd July 2017

Emerging Technologies in Education and e-Learning Experiences in Education

ORAL SESSIONS, 4th July 2017

e-Learning & b-Learning Experiences Assessment of Student Learning (1) Online Collaborative Learning Technology Enhanced Learning (2) Exchange & International Programmes Gender Issues Links between Education and Research Student Support in Education Professional Development of Teachers (2) New Trends in Post-graduate Education

Blended Learning
Assessment of Student Learning (2)
Project Based Learning
Web Technologies in Education
International Projects
Multicultural Education
Tutoring and Coaching
Special Education (1)
Pre-service and In-service Teacher Experiences (1)
New Trends and Experiences in Business Education

Flipped Learning
Assessment of Student Learning (3)
Collaborative Learning Technologies
Apps & Mobile Technologies
Pedagogical Innovations (1)
Intercultural Competences
Curriculum Design
Special Education (2)
Pre-service and In-service Teacher Experiences (2)
Museums & Cultural Heritage Learning

e-Learning Projects and Experiences (1)
Learning Management Systems
Collaborative Learning Experiences
Emerging Technologies in Education (1)
Pedagogical Innovations (2)
Language Learning Innovations
New Trends and Experiences in Physics Education
ICT Skills and Competences among Teachers (2)
Pre-service and In-service Teacher Experiences (3)
Architecture and Design Educational Experiences

e-Content Management and Development e-Learning Projects and Experiences (2) Collaborative Learning Environments Emerging Technologies in Education (2) Educational Trends & Best Practices (2) Technology in EFL Learning Educational Management Teacher Training Career Development of Educational Staff Sustainability Education

POSTER SESSIONS, 4th July 2017

Global Issues in Education and Research Pedagogical Innovations and New Educational Trends

VIRTUAL SESSIONS

Academic Research Projects

Barriers to Learning

Blended Learning

Collaborative and Problem-based Learning

Computer Software on Education

Computer Supported Collaborative Work

Curriculum Design and Development

Distance Learning

E-content Management and Development

e-Learning. Training, Evaluation and Assessment

e-Learning Projects and Experiences

Education and Globalization

Educational Management

Educational Software Experiences

Educational Trends and Best Practice Contributions

Educational/Serious Games

Emerging Technologies in Education

Enhancing Learning and the Undergraduate Experience

Entrepreneurship curriculum

Evaluation and Assessment of Student Learning

Experiences in Game Based Learning

Flipped Learning

Gamification

General Issues in Education

Impact of Education on Development

International Projects

Language Learning Innovations

Leadership in 21st Century Education

Learning and Teaching Methodologies

Learning Experiences in Higher and Further Education

Learning Experiences in Preschool Education

Learning Experiences in Primary and Secondary Education

Lifelong Learning

Links between Education and Research

Massive Open Online Courses (MOOCs)

Mobile and Tablet Technologies

Multicultural Education

New Learning/Teaching Models

New projects and Innovations

Online/Virtual Laboratories

Pedagogical Innovations in Education

Pre-service and In-service Teacher Experiences

Research Methodologies

Special Education

STEM in Education

Student Support in Education

Technology-Enhanced Learning

The Bologna Declaration and ECTS Experiences

Training educational staff

Transferring Skills and Disciplines

University-Industry Cooperation

Videos for Learning

Virtual Learning Environments (VLEs)

Vocational Training

Workplace Training and Employability Issues