

EDULEARN¹¹

3rd International Conference on Education and
New Learning Technologies

Barcelona (Spain) - 4th-6th July, 2011

CONFERENCE PROCEEDINGS



EDU LEARN₁₁

CONFERENCE PROCEEDINGS



Published by

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

EDULEARN11 Proceedings CD

3rd International Conference on Education and New Learning Technologies
July 4th-6th, 2011 — Barcelona, Spain

Edited by

L. Gómez Chova, D. Martí Belenguer, A. López Martínez
International Association of Technology, Education and Development
IATED

ISBN: 978-84-615-0441-1

Depósito Legal: V-2332-2011

Book cover designed by
J.L. Bernat

All rights reserved.

WELCOME INTRODUCTION

Dear EDULEARN11 participants,

In this third edition of EDULEARN11, we are delighted to welcome you all to this international conference that brings together experts from every corner of the world. EDULEARN11 is a key annual networking event for the sector of new learning technology and education experiences. Academics and researchers presenting at this conference will share with you their most up-to-date information on education and pedagogical innovations. This is an excellent opportunity to acquire skills and get inspired by listening to innovative approaches in education. It's the ideal place for those who wish to know more about educational experiences and who wish to discuss the latest innovations with other educational experts.

We hope you get the best of EDULEARN11 presentations and parallel sessions, discussions and debates, as well as the posters exhibition. This event also aims to be a social platform and a great opportunity for networking in a varied atmosphere. EDULEARN11 makes every effort to bring together delegates from all disciplines and cultures. This year we welcome 650 professionals and experts representing more than 65 countries. This makes this conference a multicultural meeting point for lecturers, researchers, educational scientists, and technologists.

We hope you take EDULEARN11 as an opportunity to exchange ideas and results, to discover different ways of applying new educational technologies and broaden your vision about new ways of teaching and learning. In addition to your professional experience, Barcelona will offer you a large offer of cultural and leisure activities to enjoy during your stay here. We really wish you an unforgettable stay in this cosmopolitan and interesting city.

Thank you very much for coming to EDULEARN11 and for contributing to the improvement of Education with your experiences and projects. We wish you a fruitful conference!

EDULEARN11 Organising Committee

SCIENTIFIC COMMITTEE AND ADVISORY BOARD

<i>Agustín López</i>	SPAIN	<i>Kamarulzaman Ab. Aziz</i>	MALAYSIA
<i>Amparo Girós</i>	SPAIN	<i>Katherine Cameron</i>	UNITED STATES
<i>Antonio García</i>	SPAIN	<i>Leonor Barroca</i>	UNITED KINGDOM
<i>Ato Essuman</i>	GHANA	<i>Lillian Buus</i>	DENMARK
<i>Avril Manners</i>	UNITED KINGDOM	<i>Linda Gerena</i>	UNITED STATES
<i>Budsaba Kanoksilapatham</i>	THAILAND	<i>Lorna Sibbett</i>	UNITED KINGDOM
<i>Carmine Gibaldi</i>	UNITED STATES	<i>Luis Gómez Chova</i>	SPAIN
<i>Caroline Rizza</i>	ITALY	<i>M^a Jesús Suesta</i>	SPAIN
<i>Cornelis Adrianus van Dorp</i>	NETHERLANDS	<i>Mahmoud Emira</i>	UNITED KINGDOM
<i>Daniel Ludwigsen</i>	UNITED STATES	<i>Maria Porcel</i>	SPAIN
<i>David Martí</i>	SPAIN	<i>Martina Doolan</i>	UNITED KINGDOM
<i>Elena Ors</i>	SPAIN	<i>Mónica Fernández</i>	SPAIN
<i>Enrique Coll</i>	SPAIN	<i>Norma Barrachina</i>	SPAIN
<i>Eric Bentzen</i>	DENMARK	<i>Paul Enns</i>	CANADA
<i>Graciela Helguero-Balcells</i>	UNITED STATES	<i>Paul Henry</i>	UNITED STATES
<i>Ian Weber</i>	AUSTRALIA	<i>Paul Sutton</i>	UNITED KINGDOM
<i>Ignacio Ballester</i>	SPAIN	<i>Polina Baranova</i>	UNITED KINGDOM
<i>Ignacio Candel</i>	SPAIN	<i>Ramlah Jantan</i>	MALAYSIA
<i>Ismael Serrano</i>	SPAIN	<i>Sergio Pérez</i>	SPAIN
<i>J. Kirk Irwin</i>	UNITED STATES	<i>Shan Tu</i>	CHINA
<i>Javier Domenech</i>	SPAIN	<i>Susana Raya</i>	SPAIN
<i>Javier Martí</i>	SPAIN	<i>Taru Penttilä</i>	FINLAND
<i>John Anchan</i>	CANADA	<i>Tatiana Hrivikova</i>	SLOVAKIA
<i>John Eldridge</i>	TURKEY	<i>Thomas Kretschmer</i>	GERMANY
<i>Jose de Jesus Garcia Vega</i>	MEXICO	<i>Victor Fester</i>	NEW ZEALAND
<i>Jose F. Cabeza</i>	SPAIN	<i>Vijaya Malar Arumugam</i>	MALAYSIA
<i>Jose Faisca</i>	PORTUGAL	<i>Xavier Lefranc</i>	FRANCE
<i>Jose Luis Bernat</i>	SPAIN	<i>Yoshiko Goda</i>	JAPAN
<i>Josephine V. Atinaja-Faller</i>	UNITED STATES	<i>Zaid Al-Shammari</i>	KUWAIT

CONFERENCE SESSIONS

ORAL SESSIONS, 4th July 2011.

Technology-Enhanced Learning (1)
Computer Supported Collaborative Work
Virtual Learning Environments (VLEs) (1)
Collaborative and Problem-based Learning
Experiences in Engineering Education
Links between Education & Research
Experiences in Education. Educational Management (1)
Pre-service Teacher Experiences
Technology-Enhanced Learning (2)
Collaborative Virtual Environments (CVEs)
Blended & m-Learning
Pedagogical Innovations. Learning and Teaching Methodologies (1)
Pedagogical Innovations in Engineering Education (1)
Emerging Technologies in Life & Health Sciences Education
Experiences in Education. Educational Management (2)
Educational Trends and Best Practice Contributions (1)
Advanced Classroom Technology
Computer Supported Collaborative Work. Web 2.0 and Social Networking
e-Learning. Training, Evaluation and Assessment
Pedagogical Innovations. Learning and Teaching Methodologies (2)
Pedagogical Innovations in Engineering Education (2)
Experiences and Innovations in Life & Health Sciences Education
Workplace Training
Educational Trends and Best Practice Contributions (2)
Mobile/Wireless Technologies in Education
Educational Software & Serious Games
e-Learning. Learning Management Systems (LMS)
Pedagogical Innovations. Learning and Teaching Methodologies (3)
Experiences in Architecture & Urban Planning Education
Experiences in Special Education
Student Support in Education
Experiences in Education and Research: Psycho-Pedagogy

POSTER SESSIONS, 4th July 2011.

Poster Session1. Emerging Technologies in Education and e-learning

Poster Session2. Experiences in Education: Educational Trends and Best Practice Contributions

ORAL SESSIONS, 5th July 2011.

Emerging Technologies in Education
 Evaluation and Assessment of Student Learning (1)
 e-Learning. e-learning Projects and Experiences (1)
 International projects (1)
 Emerging Technologies in Language Learning
 Experiences in Primary & Secondary Education (1)
 Experiences in Research
 Experiences in Education
 e-Learning. Educating the Educators
 Evaluation and Assessment of Student Learning (2)
 e-Learning. e-learning Projects and Experiences (2)
 International projects (2)
 Experiences in Foreign Languages Education (1)
 Experiences in Primary & Secondary Education (2)
 Experiences in Vocational Training
 Pedagogical Innovations in Business Adm.& Mgmt
 Intelligent Tutoring Systems (ITS) & e-tutoring
 Pedagogical Innovations in Education. New Learning/Teaching Models
 e-learning initiatives: Virtual universities and Community building
 International projects (3)
 Experiences in Foreign Languages Education (2)
 Experiences in Primary & Secondary Education (3)
 Enhancing Learning and the Undergraduate Experience
 Experiences in Business Adm.& Mgmt. Education (1)
 Curriculum Design and Development (1)
 Impact of Education & Technology on Development
 Virtual Learning Environments (VLEs) (2)
 Experiences in Education. Quality Assurance and Accreditation
 Experiences in Foreign Languages Education (3)
 Experiences in Art & Humanities Education
 General Issues. Diversity Issues, Women and Minorities
 Experiences in Business Adm.& Mgmt. Education (2)
 Curriculum Design and Development (2)
 Pedagogical Innovations in Education
 Blended Learning
 Learning Experiences in Higher and Further Education
 Experiences in Foreign Languages Education (4)
 Pedagogical Innovations in Art & Humanities
 General Issues. Education and Globalization
 General Issues in Education

POSTER SESSIONS, 5th July 2011.

Poster Session1. Pedagogical Innovations in Education

Poster Session2. Experiences in Research and Global issues in Education

VIRTUAL SESSIONS

Computer Supported Collaborative Work
Curriculum Design and Development
E-content Management and Development
e-Learning. Blended Learning
e-Learning. Online Assessment
e-Learning. Online/Virtual Laboratories
e-Learning. Training, Evaluation and Assessment
e-Learning. Virtual Learning Environments (VLEs)
e-learning Projects and Experiences
Educational Software & Serious Games
Emerging Technologies in Education
Enhancing Learning and the Undergraduate Experience
European Higher Education Area: The Bologna Declaration and ECTS Experiences
Experiences in Education. Educational Trends and Best Practice Contributions
Experiences in Education. Transferring Skills and Disciplines
Experiences in Research. Academic Research Projects
Experiences in Research. Links between Education and Research
Experiences in Research. New projects and Innovations
Experiences in Research. Research Methodologies
General Issues in Education
General Issues. Education and Globalization
International Projects
Learning Experiences in Higher and Further Education
Learning Experiences in Primary and Secondary School
Pedagogical Innovations in Education. Collaborative and Problem-based Learning
Pedagogical Innovations in Education. Evaluation and Assessment of Student Learning
Pedagogical Innovations in Education. Language Learning Innovations
Pedagogical Innovations in Education. Learning and Teaching Methodologies
Pedagogical Innovations in Education. New Learning/Teaching Models
Quality Assurance/Standards and Accreditation
Technology-Enhanced Learning