10TH INTERNATIONAL CONFERENCE ON EDUCATION AND NEW LEARNING TECHNOLOGIES PALMA (SPAIN) 2ND - 4TH OF JULY, 2018



CONFERENCE PROCEDINGS



EDULEARN₁₈

10TH INTERNATIONAL CONFERENCE ON EDUCATION AND NEW LEARNING TECHNOLOGIES

PALMA (SPAIN) 2ND - 4TH OF JULY, 2018

CONFERENCE PROCEEDINGS

Published by IATED Academy iated.org

EDULEARN18 Proceedings

10th International Conference on Education and New Learning Technologies July 2nd-4th, 2018 — Palma, Spain

Edited by

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

ISBN: 978-84-09-02709-5

ISSN: 2340-1117

Depósito Legal: V-1578-2018

Book cover designed by J.L. Bernat

All rights reserved. Copyright © 2018, 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.

EDULEARN18 COMMITTEE AND ADVISORY BOARD

Agnes Kriz	AUSTRIA	Ignacio Ballester	SPAIN	Marta Dziluma	LATVIA
Agustín López	SPAIN	Ignacio Candel	SPAIN	Martin Maltais	CANADA
Aleksandra Kulpa-Puczynska	POLAND	Ingolf Waßmann	GERMANY	Michael Cronin	ITALY
Aline Grunewald Nichele	BRAZIL	Irina Khoutyz	RUSSIAN FED.	Michal Palko	SLOVAKIA
Amparo Girós	SPAIN	Isabel Huet	U. KINGDOM	Michela Baraldi	UNITED STATES
Ana Mouta Costa	PORTUGAL	Iván Martínez	SPAIN	Minerva Cordero	UNITED STATES
Ana Tomás	SPAIN	Ivana Ogrizek Biskupic	CROATIA	Norbert Englisch	GERMANY
Anita Habók	HUNGARY	Janet Herrelko	UNITED STATES	Norma Barrachina	SPAIN
Ann Conway	IRELAND	Janine Delahunty	AUSTRALIA	Olyesya Razdorskaya	RUSSIAN FED.
Antonio García	SPAIN	Javier Domenech	SPAIN	Paolo Somigli	ITALY
Ashling Ryan-Mangan	IRELAND	Javier Martí	SPAIN	Patricia Reynolds	UNITED STATES
Beata Godejord	NORWAY	Joanna Lees	FRANCE	Patsy Robles-Goodwin	UNITED STATES
Béatrice Arend	LUXEMBOURG	Jose F. Cabeza	SPAIN	Peter Haber	AUSTRIA
Berhannudin Mohd Salleh	MALAYSIA	Jose Luis Bernat	SPAIN	Petr Sudicky	CZECH REP.
Celia MacDonnell	UNITED STATES	Josephine Desouza	UNITED STATES	Piedade Vaz-Rebelo	PORTUGAL
Charles Elkabas	CANADA	Josephine Munthali	U. KINGDOM	Piotr Berkowski	POLAND
Chelo González	SPAIN	Judith Szerdahelyi	UNITED STATES	Rafael Fernández-Flores	MEXICO
Chris Schaben	UNITED STATES	Kalaimagal Ramakrishnan	MALAYSIA	Rahimah Embong	MALAYSIA
Christian Bourret	FRANCE	Kari Björn	FINLAND	Rita Kumar	UNITED STATES
Cole Webber	CANADA	Kateřina Vitásková	CZECH REP.	Roma Kriaučiūnienė	LITHUANIA
Cristiano Luchetti	U.A.E.	Kristin Brogan	IRELAND	Rosa Karnita	U. KINGDOM
Cristina Sayuri Dusi	BRAZIL	Laura Bordi	FINLAND	Sabina Maraffi	ITALY
Daniel Boulos	UNITED STATES	Lorena López	SPAIN	Sergio Pérez	SPAIN
Davi De Conti	BRAZIL	Luís Descalço	PORTUGAL	Shaun Speed	U. KINGDOM
David Dalton	U.A.E.	Luis Gómez Chova	SPAIN	Shujaat Wasty	CANADA
David Martí	SPAIN	Lynn Boyle	U. KINGDOM	Svein Thore Hagen	NORWAY
Despina Varnava Marouchou	CYPRUS	Mª Jesús Suesta	SPAIN	Tetyana Antimirova	CANADA
Douglas Baleshta	CANADA	Margaret Mackay	U. KINGDOM	Thomas Rachfall	GERMANY
Dragos Tataru	ROMANIA	Marge Täks	ESTONIA	Tiziano Telleschi	ITALY
Eladio Duque	SPAIN	M de Nazaré Souza Ribeiro	BRAZIL	Tolga Akbulut	TURKEY
Emine Kuluşaklı	TURKEY	Maria Porcel	SPAIN	Tomas Kala	CZECH REP.
Filip Devos	BELGIUM	Maria ReGester	UNITED STATES	Victor Fester	NEW ZEALAND
Fritz Vandover	UNITED STATES	Maria Schwarz-Woelzl	AUSTRIA	Vidar Gynnild	NORWAY
Garold Zborovsky	RUSSIAN FED.	Maria-Iuliana Dascalu	ROMANIA	Vincenza Benigno	ITALY
Gemma van Vuuren Cassar	U. KINGDOM	Mario De Tullio	ITALY	Wendy Gorton	UNITED STATES
Hen Friman	ISRAEL	Mark Wilkinson	SINGAPORE	Xavier Lefranc	FRANCE

CONFERENCE SESSIONS

ORAL SESSIONS, 2nd July 2018

Immersive Learning & Virtual Reality
Peer Learning and Teaching
21st Century Skills (1)
Students' Wellness and Wellbeing
Quality and Excellence in Teacher Training
English as a Foreign Language (1)
Mobile Learning
ICT in Education
Active Learning (1)

Virtual Reality in Education
Flipped Learning
Workplace Learning (1)
Joint and Dual Degrees
Teacher Training Experiences
Professional Development of Foreign Language Teachers
Programming and Coding Skills (1)
Technology Enhanced Learning (1)
Active and Game-Based Learning

Augmented Reality in Education Learning by Doing & Experiential Learning Workplace Learning (2) University-Industry Collaboration ICT Skills among Teachers (1) Health Education Technologies Programming and Coding Skills (2) Educational Games Design Active Learning (2)

Social Media and Social Networks in Education Project, Problem and Inquiry-Based Learning Entrepreneurship Education International Collaboration Experiences ICT Skills among Teachers (2) Engineering Education Learning Space Design Digital Skills & Media Literacy Dropout Prevention & Students' Motivation

POSTER SESSIONS, 2nd July 2018

Emerging Technologies in Education

Pedagogical Innovations and New Educational Trends

ORAL SESSIONS, 3rd July 2018

e-Learning Experiences (1)
Videos for Learning
Special Education (1)
Language Learning Education
Cultural Diversity & Inclusion (1)
Curriculum Design in Engineering
Learning Analytics (1)
Tutoring & Mentoring
Writing Skills and Performance

Learning Management Systems (LMS)
Serious Games
Special Education (2)
Technology Enhanced Learning (2)
Pre-Service Teacher Education
Language Learning: from ESP to EMI
Learning Analytics (2)
e-Assessment
Quality Assurance and Accreditation in Higher Education

Personalized Learning
Blended Learning
Teacher Training in Special Education
STEM Education (1)
Professional Development of Teachers
Language Learning Technologies
Informal Learning
New technologies in Assessment
Leadership and Management in Education

Massive Open Online Courses (MOOC) Flipped Classroom Special Needs and Inclusive Education Maths and Statistics in Higher Education Creativity in Education English as a Foreign Language (2) Gamification & Game-Based Learning Assessment of Student Learning (1) Management in Higher Education

e-Learning Experiences (2)
Effective Teaching Practices
Cultural Diversity & Inclusion (2)
STEM Education (2)
Soft Skills Development
Business and Accounting Education
21st Century Skills (2)
Assessment of Student Learning (2)
Sustainability Education

POSTER SESSIONS, 3rd July 2018

Experiences in Education

Global Issues in Education and Research

VIRTUAL SESSIONS

21st Century Skills

Academic Research Projects

Augmented Reality

Barriers to Learning

Blended Learning

Collaboration Projects and Networks

Computer Supported Collaboration

Curriculum Design and Development

Design Thinking and Creativity

Diversity Issues, Women and Minorities

E-content Management and Development

e-Learning Projects and Experiences

Early Childhood and Preschool Education

Educating the Educators

Education and Globalization

Educational Management

Educational Software & Serious Games

Educational Trends and Best Practice Contributions

Emerging Technologies in Education

Enhancing Learning and the Undergraduate Experience

Entrepreneurship Curriculum

Ethical Issues in Education

Evaluation and Assessment

Evaluation and Assessment of Student Learning

Experiences in Research

Flipped Learning

Game Based Learning

Higher and Further Education

Higher Education Area: The Bologna Declaration and ECTS Experiences

Impact of Education on Development

Informal learning

Language Learning Innovations

Leadership in Education

Learning and Teaching Methodologies

Learning by doing & Experiential Learning

Learning Management Systems (LMS)

Lifelong Learning

Links between Education and Research

Massive Open Online Courses (MOOCs)

Mobile and Tablet Technologies

Mobile Learning

Multicultural Education

Neuroscience in Education

New Learning/Teaching Models Online/Virtual Laboratories

Organizational, Legal, Policy and Financial Issues

Pre-service and In-service Teacher Experiences

Primary and Secondary Education

Problem and Project-Based Learning

Professional Development of Teachers

Quality Assurance and Accreditation

Social & Digital Media in Education

Special Education & Inclusive Learning

STEM in Education

Student Support in Education

Team-Based and Collaborative Learning

Technology-Enhanced Learning

The Impact of Web Technologies on Education

Training Educational Staff

Transferring Skills and Disciplines

University-Industry Cooperation

Virtual Learning Environments (VLEs)

Virtual Reality and 3D Applications

Vocational Training
Web 2.0 and Social Networking

Workplace Training and Employability Issues

EDULEARN18 TABLE OF CONTENTS

"MENTORING SESSION" - AN E-LEARNING SCENARIO BASED ON REVERSE AJAX ARCHITECTURE N. Scerbakov, F. Kappe, A. Schukin	1
A NEW E-BOOK DEVELOPING PARADIGM N. Scerbakov, F. Kappe, V. Pak	7
LITERACY AND INCLUSION: ISSUES AND RESEARCH FOR EFFECTIVE TEACHING M. Milton	13
PERMANENT EDUCATION PROGRAM IN HEALTH - ONLINE COURSE MEDICAL DOCUMENTS J. Leônidas Soares, G. Coutinho Silva Feijó, A. Ribeiro da Silva, K. Crestine Poças, C. Aida Nogueira Silveira, J. de França Barros, C. Murilo Alves Costa, S. Emanoella Silva Martins de Souza	19
MASKS TO THE WIND, THE ART OF CREATING SELF-LOVE II A. Chuquilla Carrera	22
ISRAELI HEBREW SPEAKER STUDENTS' GRAPPLES ON ENVIRONMENTAL EDUCATION WITH ARABIC SPEAKER PUPILS' H. Friman, Y. Sitbon, I. Banner, Y. Einav	29
DYNAMIC COMPUTERIZED RENEWABLE ENERGY LAB BY "MOODLE" PLATFORM H. Friman	36
TECHNOLOGY INTEGRATION: FLUENCY FOR COMPREHENSION DEVELOPMENT D. Peters	41
QUALITY IMPROVEMENT OF THE TEACHING PROCESS IN PRIMARY EDUCATION I. Szőköl, P. Zidek, B. Dobay	49
MONITORING THE LEVEL OF TEACHING SLOVAK LANGUAGE AND SLOVAK LITERATURE IN PRIMARY SCHOOLS WITH HUNGARIAN LANGUAGE OF INSTRUCTION I. Szőköl, K. Horváth	54
INCREASED RISK OF INJURIES IN CHILDREN WITH ADHD COMPARED TO CHILDREN WITHOUT ADHD AND THE ROLE OF OCCUPATIONAL THERAPIST IN INJURY PREVENTION L. Dončevová	59
COLLABORATIVE SETTINGS FOR THE INTEGRATION OF STUDENTS WITH SPECIAL NEEDS F. Dubé, M.E. Gadbois, F. Dufour, M. Moldoveanu	67
POWER SYSTEM DYNAMICS VISUALIZATION FOR EARLY-STAGE ENGINEERING STUDENTS AND NON-TECHNICAL AUDIENCE F. Milano	68
INTERIORIZING THE IMPORTANCE OF THE INNOVATION CONCEPT IN THE STUDENTS OF THE DEGREE OF CIVIL ENGINEERING M. Zubizarreta, A. Santamaría, E. Briz, L. Garmendia, H. García, J. Cuadrado, E. Rojí, J.T. San-José	78
BELBIN TEAM ROLES THEORY AS ENGINEERING STUDENT GROUPING STRATEGY. INFLUENCE WORKING ON FLUID MECHANICS: LABORATORY AND PROJECT BASED LEARNING ACTIVITIES I. Bidaguren, M. Zubizarreta, Z. Egiluz, A. Orbe, M. Larrauri, I. Marcos, J.M. Blanco, R. Sancibrián	86
THE VALUE OF PREDICTIVE VALIDITY STUDIES AND THE NEED FOR 'FIT-FOR-PURPOSE' DATA TO INFORM POSTSECONDARY ADMISSIONS POLICIES AND DECISION-MAKING IN THE UNITED STATES S. Shaw, C. Vidal Rodeiro	95
THE ISSUES IN THE DESIGN, CONSTRUCTION AND ADMINISTRATION OF STUDENT QUESTIONNAIRES FOR BILINGUAL LEARNERS S. Shaw, M. Czajkowska	103
JUPYTER NOTEBOOKS FOR COMPUTER-BASED LABORATORIES ON POWER SYSTEM DYNAMICS AND CONTROL F. Milano, G.M. Jonsdottir	112
TRANSNATIONAL COOPERATION BETWEEN TSINGHUA UNIVERSITY AND JAPANESE BUSINESSES: AGREEMENTS AND MOTIVATIONS L. Wang, R. Gerloff	122

SOLVING COLLABORATIVELY INTRODUCTORY PROBLEMS TO DEVELOP PROPORTIONAL THINKING IN PRIMARY SCHOOL M. Burgos, J. Godino	2492
BUILDING A CORPORATE TRAINING SYSTEM AS AN ELEMENT IN THE FINANCIAL CORPORATION DEVELOPMENT STRATEGY A. Pilsihvili, T. Pilishvili	2498
EVOLVING ROLES OF THE FUTURE-PROOF TEACHER IN A GUIDED AUTONOMOUS LEARNING ENVIRONMENT S. Gouyette, R. Noir	2499
COMPARING STUDENTS ENTREPRENEURIAL COMPETENCES BY GENDER IN BUSINESS PLANS R. Ferreras-Garcia, A.B. Hernández-Lara, E. Serradell-López	2504
PILATES PRACTICAL TEACHING IN ENGLISH: EXPERIENCE IN THE SUBJECT "PILATES APPLIED TO PHYSIOTHERAPY", AN OPTIONAL SUBJECT OF THE DEGREE IN PHYSIOTHERAPY AT UNIVERSITY OF VIGO I.M. de Oliveira, G. Rodríguez-Fuentes	2510
PILATES FOR ELDERLY: EXPERIENCE IN THE UNIVERSITY PROGRAMME FOR OLD AGE PEOPLE AT UNIVERSITY OF VIGO G. Rodríguez-Fuentes, I.M. de Oliveira	2518
THE SELF-PERCEPTION OF MORALITY AND MORAL REASONING IN HIGH SCHOOL STUDENTS A. Proroković, L. Gregov, Š. Čavić	2524
DIVERSITY CHALLENGES FOR FEMALE ACADEMICS IN SOUTH AFRICA K. Strydom	2529
THE MIND MAP AS AN INNOVATIVE TECHNIQUE FOR EDUCATION AND ASSESSMENT OF STUDENTS AT PLOVDIV UNIVERSITY "PAISII HILENDARSKI", BULGARIA N. Atanasova	2530
SOME ASPECTS OF MORAL REASONING OF LAW STUDENTS L. Gregov, A. Proroković, A. Tokić	2537
COMPETENCES ASSESSMENT IN ONLINE DEFENSES: ENGINEERING FINAL THESIS M. de Simón-Martín, A. González-Martínez, A.M. Diez-Suárez, L. Álvarez-de Prado, A. de la Puente-Gil, J. Blanes-Peiró	2542
TEACHING EDGAR A. POE IN SPAIN THROUGH ILLUSTRATED EDITIONS F. González Moreno, M. Rigal Aragón, B. González Moreno, R. Marín Ruiz, J.M. Correoso Rodenas, A. Jaquero Esparcia, M.I. Jiménez González	2551
CHOICE AS A METHOD OF STUDENTS' ACADEMIC AUTONOMY DEVELOPMENT M. Kaskova, T. Dugina, A. Zabolotskikh	2556
AUTOMATED 3D VIRTUAL PROFESSIONAL EXPERIENCE S. Gregory	2562
OPERA AT A FOREIGN LANGUAGE LESSON: THE MAIN PRACTICAL ASPECTS OF TEACHING M. Kaskova, T. Dugina, A. Zabolotskikh	2567
THE DEVELOPMENT OF A VIRTUAL MODEL OF LABORATORY INSTALLATION A. Gabdullina, A. Zhukeshov, A. Amrenova, G. Adambek, M. Mukhamedryskyzy, K. Fermakhan, V. Yengay	2575
TRANSNATIONAL EDUCATION THROUGH SUPPORTED DISTANCE LEARNING PROGRAMMES: CHANGING PERCEPTIONS AND EXPLORING POTENTIAL L. Silva de Mattos	2581
CHANGES IN THE PERCEPTION OF COMPUTER SCIENCE STUDIES IN ENGLISH BY EMPLOYERS M. Milosz, E. Milosz	2589
THE TEACHING TEAM OF EXPERIENCED AND BEGINNER PROFESSORS CONTRIBUTES TO THE CONTINUOUS IMPROVEMENT OF THE TEACHING IN THE UNIVERSITY OF GRANADA M. Muñoz, Alfáraz, I. Díaz, Castro, I.M. Paradas, I.A. Rufián Hanaras, M. I. Ruodas, A. Orte, M.	2594
M.J. Muñoz Alférez, J. Díaz-Castro, J.M. Paredes, J.A. Rufián-Henares, M.J. Ruedas, A. Orte, M. López-Viota, M.J. Sáez, O. Cruz-López, E. García-Fernández, T. Nestares, M. López-Frías, J. Campos-Rosa, E. Planells, D. Miguel-Álvarez, M. Romero-Pérez, I.M. Rodríguez-Gómez, M. Gómez-Guzmán, M.E. García-Rubiño, M. Sánchez-Santos, S. Pastoriza de la Cueva, J. Moreno-Fernández, C. Rodríguez-Maldanado, M.V. Fernández-González, C. Chapes, C. de Teresa, C. Sánchez, B. Jugrez, J. López-Aligag	