16th European Conference on eLearning (ECEL 2017)

Porto, Portugal 26 – 27 October 2017

Editors:

Anabela Mesquita Paula Peres

ISBN: 978-1-5108-5097-2

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© The Authors, (2017). All Rights Reserved.

No reproduction, copy or transmission may be made without written permission from the individual authors.

Papers have been double-blind peer reviewed before final submission to the conference. Initially, paper abstracts were read and selected by the conference panel for submission as possible papers for the conference.

Many thanks to the reviewers who helped ensure the quality of the full papers.

Printed by Curran Associates, Inc. (2017)

Published by Academic Conferences and Publishing International Ltd. 33 Wood Lane Sonning Common RG4 9SJ UK

Phone: 441 189 724 148 Fax: 441 189 724 691

info@academic-conferences.org

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA

Phone: 845-758-0400 Fax: 845-758-2633

Email: curran@proceedings.com Web: www.proceedings.com

Contents

Paper Title	Author(s)	
Preface		V
Committee		vi
Biographies		viii
An Auto Grading Online Submission System: Case of Packet Tracer	Kayode Adesemowo, Surety Mhlaba, Odwa Yekela and Loic Ndame	1
Social Media Trends and Collaborative Learning for Scholarly Research Among Postgraduate Students	Fredrick Olatunji Ajegbomogun and Olubunmi Kafilat Oduwole	9
DABAI: A Data Driven Project for e-Learning in Denmark	Stephen Alstrup, Casper Hansen, Christian Hansen, Niklas Hjuler, Stephan Lorenzen and Ninh Pham	18
Learning Analytics in Higher Education: Assessing Learning Outcomes	Paulo Alves, Carlos Morais and Luísa Miranda	25
Assessment of the e-Learning System of Virtual University of Pakistan	Irfanullah Arfeen and Amna Noor	33
Using a Spreadsheet to Support e-Assessment	José Azevedo and António Pedrosa	39
e-Learning-Based Occupational Therapy Education Leads to Committed Students	Maria Bensen and Ditte Kolbaek	48
Collaborating on a Shared Document: Vocational and Technical Students' Approaches and Experiences	Ruth Boelens and Bram De Wever	56
Digital Bildung in the Danish Higher Technical Examination Pro-gramme	Anders Boelt and Elsebeth Korsgaard Sorensen	65
Personalisation of a Moodle Course From Student's Perspective	Vladimír Bradáč, Marek Šimík, Martin Kotyrba and Eva Volná	70
Use of Neural Networks for Adaptive e-Learning: A Preliminary Study	Vladimír Bradáč, Robert Jarušek, Eva Volná and Martin Kotyrba	78
Microlearning in Foreign Language Courses: A Threat or a Promise?	Pavel Brebera	85
Students and Teachers as Developers of Visual Learning Designs With Augmented Reality for Visual Arts Education	Mie Buhl	94
Design of a Distance Learning Pedagogical Model for the Continuous Training of Judges: Fully, Partially or Never-Online Approach?	Joana Caldeira and Neuza Pedro	101
Mixed Messages: Exploring the Experiences of Instructors in a Large-Scale Distance Language Learning Program	Paula Charbonneau-Gowdy	108
The Voice of the Students: Needs and Expectations From Learning Management Systems	Lee Yen Chaw and Chun Meng Tang	116
Connecting eye to eye: The Challenge of Computer Supported Contact	Susanne Dau and Anders Bindslev Rask	124

Paper Title	Author(s)	
Adoption of Micro and Mobile Learning in German Enterprises: A Quantitative Study	Jasmin Decker, Anna-Lena Hauschild, Niklas Meinecke, Marcus Redler and Matthias Schumann	132
Blended Learning: Concept, Emerging Practices and Future Prospects	Faiza Derbel	142
Educators' Pedagogical Concerns on Blending ICTs in Teaching	Sibusisiwe Dube	150
Inspiring Change in e-Training Sports Coaching: Lessons Learned From a Descriptive Study	Carles Dulsat Ortiz and Isabel Álvarez Cánovas	156
Teachers' Role in Blended Learning: The Emperor's new Clothes?	Yvonne Eriksson, Marcus Bjelkemyr, Koteshwar Chirumalla and Jennie Schaeffer	163
A Double-Loop Learning Model for User-Involved Implementation of Learning Platforms (LMS) in Schools	Karsten Gynther and Rasmus Jørnø	169
Online Digital Mentorship: How Might a Digital Communication Tool Facilitate Informal Learning and Integration of Newly Arrived in Sweden	Henrik Hansson, Hadia Qazi, Ida Sundqvistand Peter Mozelius	178
LearningGlasses app: A Smart-Glasses-Based Learning System for Training Procedural Knowledge	Sebastian Hobert and Matthias Schumann	185
Educational Networking Platforms Through the Eyes of Czech Primary School Students	Zuzana Homanova and Tatiana Prextova	195
Home Schooling and Computer-Based Collaborative Activities	Antonín Jančařík and Jarmila Novotná	205
PLE as a Tool for the Development of the Learning to Learn Competence	Tomas Javorcik	211
Trialling Online Proctoring for e-Assessments: Early Outcomes From the Erasmus+ OP4RE Project	Amanda Jefferies, Karen Barton, Jonathan Meere, Sulanie Peramungama, Andrew Pyper and Amanda Yip	221
The Students' Experiences With Live Video-Streamed Teaching Classes	Vibe Jelsbak, Rikke Ørngreen, Lillian Buus, Jonas Thorsen and Thomas Bendsen	229
On Linking Problem-Based Learning Activities and Students' Learning Styles in Personalised Learning	Anita Juskeviciene and Eugenijus Kurilovas	238
A Technique to Adapt Course Presentation in Moodle	Ioannis Karagiannis and Maya Satratzemi	247
Information Competencies as a key Factor of Teacher Education: The Polish Context	Barbara Kędzierska and Anna Mróz	256
Didactic Aspects of e-Learning Courses From a Joint Research Point of View	Katerina Kostolanyova and Martin Kotyrba	264
Designing MOOCs for Teacher Professional Development: Analysis of Participants' Engagement and Perceptions	Nikolaos Koukis and Athanassios Jimoyiannis	271
Significance of Technology Integration in Higher Education Classes: How do Kinesiology/Sport Science Students Rate Technology use in Gym-Based and Classroom-Based Courses?	Rolf Kretschmann	281

Paper Title	Author(s)	
Factors Affecting Student Attendance at Online Tutorials in TU100 my Digital Life	lain Lambie and Bobby Law	289
Blended Learning: How to Combine Different Ways to Interact Online	Monica Lervik, Hanne Haave, Tone Vold, Ole Jørgen Ranglund and Stig Holen	298
Teacher Practice and Pedagogical Competence Building in a Digitally Permeated Learning Environment	Karin Tweddell Levinsen	304
Brazil's Challenges Facing Didactics and the Curricular Stage for Distance Teacher Training	Daniela da Costa Britto Pereira Lima and Flávia Magalhães Freire	311
Academic Staff Perceptions and Challenges in Technology Integration: A Case Study of Walter Sisulu University	Tabile Loqo	318
On Predicting Student Performance Using Low-Rank Matrix Factorization Techniques	Stephan Lorenzen, Ninh Pham and Stephen Alstrup	326
Staff Perceptions of Technology Enhanced Learning in Higher Education	Colin Loughlin	335
School as Digitally Competent Educational Organization: Specific Preparation for Work Positions and Educational Roles	Josef Malach and Kateřina Kostoloányová	344
On Using Learning Analytics to Personalise Learning in Virtual Learning Environments	Jelena Mamcenko and Eugenijus Kurilovas	353
Towards a Mobile Augmented Reality Prototype for Corporate Training	Agostino Marengo, Alessandro Pagano and Lucia Ladisa	362
Student Activity in Blended Learning Environments: A Sociomaterial Perspective	Bente Meyer, Michael Peter Jensen, Anette Bøjgaard Schleicher and Samantha Zoë Ashton- Fog	367
Play-Based Learning for Programming Education in Primary School: The Östersund Model	Peter Mozelius and Lena-Maria Öberg	375
Constructing Knowledge Through Mobile Devices	Ingrid Nagyová	384
Relationship Between Student's Note Taking Activity and Their Reflections During a Blended Learning Course	Minoru Nakayama, Kouichi Mutsuura and Hiroh Yamamoto	393
Teaching Tutors to Train Online: Quality Assurance in a Blended Learning Setting	Ursula Niederländer and Elisabeth Katzlinger	399
Exploring Mindsight via Email Communication in Learning Environment	Suzannah Ogwu, Shelagh Keogh and Petia Sice	408
Awareness, Accessibility, Utilization of Continuous e- Education Programmes of Clinical Blood use: Policy Implications	Maruff Oladejo and Cees Th. Smit Sibinga	413
The Learning Potential of Video Sketching	Rikke Ørngreen, Birgitte Henningsen, Peter Gundersen and Heidi Hautopp	422
Challenges When Preparing and Implementing in e/b- Learning Courses: Lessons Learned	Paula Peres, Paulino Silva and Anabela Mesquita	431
Through Assessment and ePortfolio Towards Self- Directed Learning	Linda Pospíšilová	439

Paper Title	Author(s)	
Designing Test Tasks in Adaptive Testing	Tatiana Prextová and Zuzana Homanová	446
Look Here! Are There Gender Differences in Learners' eye Movements While Using an e-Learning Platform?	Gergely Rakoczi	453
Supporting Critical Thinking Through Digital Learning and Teaching: A Portfolio Process	Jennifer Rowley, Jennifer Munday and Patsie Polly	461
A Reuse-Based Approach for the Development of OpenCourseWare in a Crowdsourcing Platform	Edna Ruckhaus and Mari Carmen Suárez- Figueroa	466
Toward a Personalized Game-Based Learning Environment Using Personality Type Indicators	Negar Shabihi and Fattaneh Taghiyareh	476
Systematic Review of Challenges and Gaps in Flipped Classroom Implementation: Toward Future Model Enhancement	Iuliia Shnai	484
How can I Help you to Assist me to Teach you?	Imelda Smit	491
A Model-Based Software Product Line for Differentiated Instruction in MOOC	Jihane Sophia Tahiri, Samir Bennani and Mohammed Khalidi Idrissi	504
Comparison of Adaptive and Multimodal Education	Ondřej Takács, Milan Pastyřík, Aleš Oujezdský and Lenka Glacová	511
Role of Reflection in Blended Learning Language Courses in Higher Education	Satu Tuomainen	520
Flexible Study Pace, Mental Disabilities and e-Learning: Perceived Problems and Opportunities	Ulrika Artursson Wissa and Anders Avdic	527
Phd Research Papers		535
Engagement Driven Massive and Open Online Learning Environment: A Heutagogy-Based MOOC (h-MOOC)	Nikoletta Agonács and João Filipe Matos	537
Mobile Touch Technology at a Special Primary School: Case Study	Vojtěch Gybas and Kateřina Kostolányová	546
Making MOOCs Matter in Formal Education Through a Federating Environment	Khaoula Mrhar, Nabil Zary and Mounia Abik	557
Optimal Allocation of Reviewers for Peer Feedback	David Kofoed Wind, Ulf Aslak Jensen, Rasmus Malthe Jørgensen, Simon Lind Hansen and Ole Winther	566
Work In Progress Papers		575
Undergraduate Students' Failure in France: Mentoring Strategies to Enhance Self-direction in Learning	Dina Adinda and Pascal Marquet	577
Evaluation of Teacher Training Satisfaction: A Critical Factor for Technology Integration in Higher Education	Sofia Batista, Neuza Pedro, Nikoletta Agonacs, Magda Fonte, Nuno Oliveira and João Filipe Matos	580
An Approach to Creative Classrooms	Paula Peres, L. Oliveira, A. Jesus and A. Silva	585