

# Contents

## Invited Papers

The Complex Process of Scaling the Integration of Technology Enhanced Learning in Mainstream Classrooms . . . . .	3
<i>Alison Clark-Wilson</i>	
Quality and Evaluation in Higher Education . . . . .	14
<i>Francisco J. Arcega</i>	
Dropout Rates of Regular Courses and MOOCs . . . . .	25
<i>Léon Rothkrantz</i>	

## Papers

Hybrid Matrix Factorization Update for Progress Modeling in Intelligent Tutoring Systems . . . . .	49
<i>Carlotta Schatten and Lars Schmidt-Thieme</i>	
Co-presence in the Real and the Virtual Space: Interactions Through Orientation . . . . .	71
<i>Athanasios Christopoulos, Marc Conrad, and Mitul Shukla</i>	
Evaluation of Adaptive Teamwork System Based upon Individual Differences in Culture Dimension (Individualism - Collectivism). . . . .	100
<i>Wesam Shishah</i>	
Research on Potential Features to Enhance On-line Course Materials for Student Revision . . . . .	118
<i>Petch Sajjacholapunt and Mike Joy</i>	
Web-Based Frameworks for CLIL in Primary School: Design, Implementation, Pilot Experimentation and Results . . . . .	139
<i>Luca A. Ludovico and Claudia Zambelli</i>	
Minimizing Computing Costs of Policy Trees in a POMDP-based Intelligent Tutoring System . . . . .	159
<i>Fangju Wang</i>	
Can Digital Games Help Seniors Improve Their Quality of Life? . . . . .	179
<i>Louise Sauv�, Lise Renaud, David Kaufman, and Emmanuel Dupl�a</i>	

Skramble: An Embeddable Python Programming Environment for Use in Learning Systems . . . . .	193
<i>Henry Miskin and Anandha Gopalan</i>	
Hybrid Ranking Method for E-Learning Platform Selection: A Flexible Approach . . . . .	214
<i>Soraya Chachoua and Nouredine Tamani</i>	
Interactive and Narrative Data Visualisation for Presentation-Based Knowledge Transfer . . . . .	237
<i>Reinout Roels, Yves Baeten, and Beat Signer</i>	
Feedback Authoring for Exploratory Activities: The Case of a Logo-Based 3D Microworld . . . . .	259
<i>Sokratis Karkalas, Manolis Mavrikis, Marios Xenos, and Chronis Kynigos</i>	
The Side Effect of Learning Analytics: An Empirical Study on e-Learning Technologies and User Privacy . . . . .	279
<i>Madeth May, Sébastien Iksal, and Claus A. Usener</i>	
Social Network Analytics in Formal and Informal Learning Environments with EduBridge Social . . . . .	296
<i>Luciana Oliveira and Álvaro Figueira</i>	
A Model Driven Approach to Business Process-Based Learning . . . . .	317
<i>Venkatapathy Subramanian and Antonia Bertolino</i>	
Approaches to Detecting and Utilizing Play and Learning Styles in Adaptive Educational Games . . . . .	336
<i>Renny S.N. Lindberg and Teemu H. Laine</i>	
Towards Efficient Teacher Assisted Assignment Marking Using Ranking Metrics . . . . .	359
<i>Nils Ulltveit-Moe, Terje Gjørseter, Sigurd Assev, and Halvard Øysæd</i>	
The Problem Distiller Tool: Supporting Teachers in Uncovering Why Their Students Have Problems Understanding Threshold Concepts . . . . .	380
<i>Sara Cruz, José Alberto Lencastre, Clara Coutinho, Gill Clough, and Anne Adams</i>	
Designing Teacher Education Programs that Produce ICT Ready Graduates . . .	402
<i>Kathy Jordan and Jennifer Elsdon-Clifton</i>	
Interval Type-2 Fuzzy Logic Systems for Evaluating Students’ Academic Performance . . . . .	420
<i>Ibahim A. Hameed, Mohanad Elhoushy, and Ottar L. Osen</i>	

Teacher Supported Peer Evaluation Through OpenAnswer:  
 A Study of Some Factors. . . . . 442  
*Maria De Marsico, Andrea Sterbini, and Marco Temperini*

Factors Affecting the Gaming Experience of Older Adults in Community  
 and Senior Centres . . . . . 464  
*Fan Zhang, Simone Hausknecht, Robyn Schell, and David Kaufman*

The Bridge21 Model of 21<sup>st</sup> Century Learning in the Mathematics  
 Classroom – Teachers’ Perspectives. . . . . 476  
*Aibhín Bray*

Sharing Life Stories: Design and Evaluation of a Digital Storytelling  
 Workshop for Older Adults . . . . . 497  
*Simone Hausknecht, Michelle Vanchu-Orosco, and David Kaufman*

Assessing the Adoption of Virtual Learning Environments in Primary  
 Schools: An Activity Oriented Study of Teacher’s Acceptance . . . . . 513  
*Elena Codreanu, Christine Michel, Marc-Eric Bobillier-Chaumon,  
 and Olivier Vigneau*

**Author Index** . . . . . 533



<http://www.springer.com/978-3-319-63183-7>

Computers Supported Education

8th International Conference, CSEDU 2016, Rome, Italy,

April 21-23, 2016, Revised Selected Papers

Costagliola, G.; Uhomobhi, J.; Zvacek, S.; McLaren, B.M.

(Eds.)

2017, XVII, 533 p. 173 illus., Softcover

ISBN: 978-3-319-63183-7