

Contents

MOOC Challenges

Engagement Measures in Massive Open Online Courses	3
<i>Jane Sinclair and Sara Kalvala</i>	
Two-Dimensional Knowledge Model for Learning Control and Competence Mapping	16
<i>Vello Kukk, Kadri Umbleja, and Martin Jaanus</i>	
Learning, Knowledge and Competence in Global Online-Universities: How Terminology Shapes Thinking: A Theoretical Approach to Innovation and Change in Academic Distance Education	28
<i>Sabine Siemsen</i>	
MOOCs and the Integration of Social Media and Curation Tools in e-Learning	43
<i>Jean-Eric Pelet, Marlene A. Pratt, and Stéphane Fauvy</i>	
The Role of Social Connections in Plagiarism Detection	54
<i>Aljaž Zrnec and Dejan Lavbič</i>	

Cooperative Learning

Eight R's – Case Study	67
<i>Marja Naaranoja and Lorna Uden</i>	
Designing a PBLJii Script in a CSCL Environment for Bolstering Collaboration and Communication Skills	77
<i>Sofia Gkemisi, Fotini Paraskeva, Aikaterini Alexiou, and Hara Bouta</i>	
Applying Adult Cooperative Learning Underpinning Principles to Learning with Social Media: An Overview and Implications for Research	93
<i>Jonathan Kaplan</i>	
Social Tagging for e-Learning: An Approach Based on the Triplet of Learners, Learning Objects and Tags	104
<i>Luciana A.M. Zaina, José F. Rodrigues Júnior, and Anderson R. do Amaral</i>	

Learning Engineering

Learning Analytic and Evaluation in Malleable Learning Environments 119
Manel BenSassi, Mona Laroussi, and Henda BenGhezala

Knowledge-Management by »Social Writing«: The Launch
 and Establishment of an Online-Writing Lab Using the Example
 of Citavi-Online-Tutorials at the Faculty of Culturaland Social Sciences
 of the Distance-University in Hagen Germany 134
Sabine Siemsen

The Design of Personal Learning Environments (PLE) with Scope
 on Information Literacy in High School. 148
*Sabine Seufert, Katarina Stanoevska-Slabeva, Severina Müller,
 and Nina Scheffler*

Effectiveness of Blended Learning Approaches in Engaging Non-law
 Students to Study Law. 164
Kanchana Chandran, Sanath Sukumaran, and Kalpana Chandran

Learning Tools and Environments

The Information Society, a Challenge for Business Students? 177
Viktorija Florjančič

System Support for Social Learning in Computer Science at a Distance
 University – The University of Hagen 188
Birgit Feldmann

Using WCAG 2.0 and Heuristic Evaluation to Evaluate Accessibility
 in Educational Web Based Pages 197
*Maijaž Debevc, Ines Kožuh, Simon Hauptman, Andrej Klembas,
 Julija Bele Lapuh, and Andreas Holzinger*

An Implementation of Online Learning and Course Management System
 Based on Facebook 208
I-Hsien Ting, Wei-Jie Wu, Hao-Ting Kao, and David Wang

Using Cloud-Based Applications for Education, a Technical
 Interoperability Exploration for Online Document Editors 219
*Rocael Hernández Rizzardini, Christian Gütl,
 and Hector R. Amado-Salvatierra*

Interconnection of Information Systems in Academic Environment:
 Case of University of Žilina in Žilina, Slovakia 232
Katarína Púčková, Lenka Tarábková, and Anna Závodská

STEM

An Implementation of a Classroom Lighting System for the Improvement of Learning Efficiency 245
Hwa-Soo Lee, Sook-Youn Kwon, Kil Hee Kim, Kee-Sun Lee, and Jae-Hyun Lim

E-learning Intervention for Stem Education: Developing Country Case Study. 255
Hitendra Pillay and Werner Kappus

Engineering Active Learning in 3D Virtual Worlds 268
Michael Vallance, Kenta Ibayashi, and Yuta Goto

Integrating Synthetic and Analytical Aspects of Geometry Through Solving Problems Using a DGS 283
Carolina Guerrero-Ortiz, Aaron Reyes-Rodriguez, and Hugo Espinosa-Perez

The Use of Digital Technology in Extending Mathematical Problem Solving Reasoning 298
Manuel Santos-Trigo, Isaid Reyes-Martínez, and Daniel Aguilar-Magallón

Author Index 311



<http://www.springer.com/978-3-319-22628-6>

Learning Technology for Education in Cloud
4th International Workshop, LTEC 2015, Maribor,
Slovenia, August 24-28, 2015, Proceedings
Uden, L.; Liberona, D.; Welzer, T. (Eds.)
2015, XI, 311 p. 89 illus., Softcover
ISBN: 978-3-319-22628-6