

Contents

Design for Learning

- A Review, Timeline, and Categorization of Learning Design Tools 3
Dilek Celik and George D. Magoulas
- Approaches to Design for Learning (Short Paper) 14
Dilek Celik and George D. Magoulas
- Implementing Knowledge and Workflow Management in Learning
Management Systems (Short Paper). 20
Aneta Bartuskova and Ondrej Krejcar

Education and Teaching

- Assessment for Learning as a Teaching Approach Enabling Personalization
of Learning on Tertiary Level. 29
Dagmar El-Hmoudova and Eva Milkova
- Design Patterns for Badge Systems in Higher Education 40
Hans Põldoja, Pirje Jürgens, and Mart Laanpere
- MyEnglishLab Component Used in the Distant Part of Blended Learning . . . 50
Danuse Vymetalkova and Eva Milkova
- Technology Investment and Transformation Efforts in the Public Schools
of Georgia 60
Eka Jeladze and Kai Pata
- Web Frameworks for Content and Language Integrated Learning in Primary
School. 72
Luca Andrea Ludovico and Claudia Zambelli
- Digital Divide in Learning Services in Ghana’s Basic School (Short Paper) . . 83
James Sunney Quaicoe and Kai Pata

Massive Open Online Courses (MOOCs)

- Complex Resources in MOOCs: Structural and Behavioral Integration
Approach. 91
Sahar Msaed, Philippe Pernelle, Chokri Ben Amar, and Thibault Carron

Modeling Skills in a Learner-Centred Approach Within MOOCs.	102
<i>Wiem Maalej, Philippe Pernelle, Chokri Ben Amar, Thibault Carron, and Elodie Kredens</i>	
Delivering Immersive Learning Experience for Massive Open Online Courses (MOOCs) (Short Paper).	112
<i>Horace Ho Shing Ip, Chen Li, Yat Wai Wong, Selena Leoni, Ka Fai Ma, Hoi To Wong, and Sin Hang Sham</i>	
What Are the Dimensions of Language Learning with MOOCs for English Learners? (Short Paper)	118
<i>Yayoi Anzai and Kanji Akahori</i>	
Factors Influencing the Sustainability of MOOCs Compared with Traditional Distance Education Courses (Poster Paper)	123
<i>Thorleif Hjeltnes and Svend Andreas Horgen</i>	
Mobile Learning	
EduNotes – A Mobile Learning Application for Collaborative Note-Taking in Lecture Settings	131
<i>Elvira Popescu, Constantin Stefan, Sorin Ilie, and Mirjana Ivanović</i>	
Towards Mobile Assisted Language Learning Based on Computational Thinking	141
<i>Ilenia Fronza and Daniel Gallo</i>	
Learning Medical English Terminology Through Mobile Devices: A Two-Year Trial to Develop Mobile Learning Content for Japanese Medical Students (Short Paper).	151
<i>Jun Iwata, John Telloyan, and Lynne Murphy</i>	
Modeling for Learning	
Understandable Prediction Models of Student Performance Using an Attribute Dictionary.	161
<i>Shaymaa E. Sorour, Shaimaa Abd El Rahman, Samir A. Kahouf, and Tsunenori Mine</i>	
Designing Formative and Adaptive Feedback Using Incremental User Models (Short Paper).	172
<i>Sviatlana Höhn and Eric Ras</i>	
Towards e-Assessment Models in Engineering Education: Problems and Solutions (Poster Paper).	178
<i>Malinka Ivanova, Anna Rozeva, and Mariana Durcheva</i>	

Serious Games

Scenario Modeling for Serious Games: An Approach for Industry Sector 185
Hamza Abed, Philippe Pernelle, Thibault Carron, and Chokri Ben Amar

Understanding Learners’ Behaviors in Serious Games 195
Mathieu Muratet, Amel Yessad, and Thibault Carron

MDA Approach for Reusability in Serious Game and E-learning Design
 (Short Paper) 206
Nada Aouadi, Philippe Pernelle, Chokri Ben Amar, and Thibault Carron

Social-Collaborative Learning

A Framework for Mapping e-Textbooks as a Socio-Technical Regime. 215
Kai Pata and Terje Våljataga

A Multiple Constraints Framework for Collaborative Learning Flow
 Orchestration 225
Kalpani Manathunga and Davinia Hernández-Leo

Protus 2.1: Applying Collaborative Tagging for Providing
 Recommendation in Programming Tutoring System. 236
Boban Vesin, Aleksandra Klačnja-Milićević, and Mirjana Ivanović

Domain-Specific Recommendation by Matching Real Authors to Social
 Media Users (Short Paper) 246
Jun Wang, Junfu Xiang, and Kanji Uchino

Facebook Groups in Teaching English for Specific (Academic)
 Purposes - Active Learning Beyond the Classroom (Short Paper) 253
Liana Stanca and Cristina Felea

Discovering Prerequisite Relationships Among Learning Objects:
 A Coursera-Driven Approach (Poster Paper). 261
*Carlo De Medio, Fabio Gasparetti, Carla Limongelli, Matteo Lombardi,
 Alessandro Marani, Filippo Sciarrone, and Marco Temperini*

Interacting with Technology to Interact Physically: Investigating
 Affordances of Tabletops to Facilitate Collaboration for Conflicting Users
 (Poster Paper). 266
Preben Hansen, Fernando Loizides, and Andri Ioannou

Support for Learning

Pen&Paper, or e-Feedback: Comparative Study.	273
<i>Ivana Simonova</i>	
Supporting the Acquisition of Scientific Skills by the Use of Learning Analytics	281
<i>Daniel J. Salas, Silvia Baldiris, Ramón Fabregat, and Sabine Graf</i>	
Using Personal Learning Environments to Support Workplace Learning in Small Companies	294
<i>Miloš Kravčík, Kateryna Neulinger, and Ralf Klamma</i>	
Author Index	303



<http://www.springer.com/978-3-319-47439-7>

Advances in Web-Based Learning – ICWL 2016
15th International Conference, Rome, Italy, October
26–29, 2016, Proceedings
Chiu, D.K.W.; Marenzi, I.; Nanni, U.; Spaniol, M.;
Temperini, M. (Eds.)
2016, XIV, 304 p. 74 illus., Softcover
ISBN: 978-3-319-47439-7