Contents

A Blended Learning Environment for Enhancing Meaningful Learning Using Twenty-First Century Skills............... 1
Gustavo Zurita, Beatriz Hasbun, Nelson Baloian and Oscar Jerez

A Correlative Research on the Relationship Between Awareness in Collaborative Learning and Its Impact on Academic Performance............................................................ 9
Zhong Keding and Li Nan

A Framework to Automatically Analyze Regulation................................................................. 23
Lanqin Zheng, Moushir M. El-Bishouty, Colin Pinnell, Jason Bell, Vive Kumar and Kinshuk

A Method for Evaluating Technology-Rich Classroom Environment .................................................. 31
Junfeng Yang

A New Physical-Digital Environment for Discussion and Presentation Skills Training......................... 41
Katashi Nagao, Mehrdad Panahpour Tehrani and Jovilyn Therese B. Fajardo

A Study on the Development of the Smart Classroom Scale ......................................................... 45
Bao Ping Li, Siu Cheung Kong and Guang Chen

Accelerate Location-Based Context Learning for Second Language Learning Using Ubiquitous Learning Log.......................... 53
Songran Liu, Hiroaki Ogata and Kousuke Mouri
Adapted E-Assessment System: Based on Workflow Refinement
Fahima Hajjej, Yousra Bendaly Hlaoui and Leila Jemni Ben Ayed

An Initial Development and Validation of Tablet Computer Familiarity Questionnaire
Xiaoxia Zheng, Wei Cheng, Bing Xu, Guang Chen and Ronghuai Huang

Analysis of Elementary Teachers’ Readiness for Smart Learning in Korea
Soo-Young Lee and Youngmin Lee

Analysis of Problem-Posing Process of Arithmetical Word Problem as Sentence Integration: Viewpoint of First Selected Sentence
Nur Hasanah, Yusuke Hayashi and Tsukasa Hirashima

Are Serious Games Working as Expected?
Borja Manero, Javier Torrente, Ángel Serrano and Baltasar Fernández-Manjón

Automatic Generation of Valid and Equivalent Assessment Instruments
Shilpi Banerjee and Chandrashekar Ramanathan

College Students’ Attitudes and Preferences of Mobile Newspaper Reading: A Comparison Between Printed and Web Page Layout
Lin-Chao Fu, Ming-Hsin Lu, Hsin-Ying Wu, WeiJane Lin and Hsiu-Ping Yueh

Competing in Cultural Arena: New Design of Career Guiding Application
Hang Guo

Design Tutoring Feedback to Increase Online Learners’ Satisfaction
Yuhui Ma, Ronghuai Huang, Xiaoying Zhang and Jiong Guo

Developing the PETAL e-Learning Platform for Personalized Teaching and Learning
Kelly Liu, Victoria Tam, Phoebe Tse, Edmund Y. Lam and Vincent Tam
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increasing the Sensitivity of a Personalized Educational Data</td>
<td>201</td>
</tr>
<tr>
<td>Mining Method for Curriculum Composition</td>
<td></td>
</tr>
<tr>
<td>Yukiko Yamamoto, Rainer Knauf, Yuta Miyazawa and Setsuo Tsuruta</td>
<td></td>
</tr>
<tr>
<td>Investigating the Determinants of Mobile Learning Acceptance in Korea Using UTAUT2</td>
<td>209</td>
</tr>
<tr>
<td>Myunghee Kang, Bao Ying Teresa Liew, Hyunjin Lim, Jeeun Jang and Sooyoung Lee</td>
<td></td>
</tr>
<tr>
<td>Learning Analysis on Learners’ Wiki-Based Collaborative Knowledge Building Behaviors</td>
<td>217</td>
</tr>
<tr>
<td>Shuang Li, Qi Tang and Pengfeng Shi</td>
<td></td>
</tr>
<tr>
<td>Learning Through Instant-Messaging Chat Logs: A Tool for Adults to Address the Communication Norms in the New Workplace</td>
<td>225</td>
</tr>
<tr>
<td>Bernie Chun Nam Mak and Mike Hin Leung Chui</td>
<td></td>
</tr>
<tr>
<td>Measuring Learners’ Working Memory Capacity from Their Interactions Within Educational Game</td>
<td>233</td>
</tr>
<tr>
<td>Mohamed Ali Khenissi, Fathi Essalmi, Mohamed Jemni, Kinshuk and Ting-Wen Chang</td>
<td></td>
</tr>
<tr>
<td>Mobile Devices and a Modelling Tool for Physics Experiments in High School</td>
<td>239</td>
</tr>
<tr>
<td>Wing-Kwong Wong, Tsung-Kai Chao, Pin-Ren Chen, Yunn-Wen Lien and Chao-Jung Wu</td>
<td></td>
</tr>
<tr>
<td>Ontology Based Semantic Metadata Extraction System for Learning Objects</td>
<td>247</td>
</tr>
<tr>
<td>Ramzi Farhat, Baraâ Jebali and Mohamed Jemni</td>
<td></td>
</tr>
<tr>
<td>Ontology-Based Smart Learning Environment for Teaching Word Problems in Mathematics</td>
<td>251</td>
</tr>
<tr>
<td>Aparna Lalingkar, Chandrashekar Ramnathan and Srinivasan Ramani</td>
<td></td>
</tr>
<tr>
<td>Paradoxical Tensions of Online Peer Assessment: A Case Study of a Secondary School in Singapore</td>
<td>259</td>
</tr>
<tr>
<td>Wan Ying Tay and Zhi Ying Ng</td>
<td></td>
</tr>
<tr>
<td>Redesigning the Classroom Environment to Enhance Students’ Collaborative Learning Activities</td>
<td>267</td>
</tr>
<tr>
<td>Fui-Theng Leow and Mai Neo</td>
<td></td>
</tr>
</tbody>
</table>
Relations Between Student Online Learning Behavior and Academic Achievement in Higher Education: A Learning Analytics Approach ............................. 275
Il-Hyun Jo, Taeho Yu, Hyeyun Lee and Yeonjoo Kim

Smart Learning Analytics .................................................. 289
David Boulanger, Jeremie Seanosky, Vive Kumar, Kinshuk, Karthikeyan Panneerselvam and Thamarai Selvi Somasundaram

Smartphone Addiction in University Students and Its Implication for Learning ............................................. 297
Jeongmin Lee, Boram Cho, Youngju Kim and Jiyea Noh

Students' Science Process Skills Diagnosis ................................. 307
Ming-Xiang Fan, Maiga Chang, Rita Kuo and Jia-Sheng Heh

Tablet Interface Design for Elder Users' Newspaper Reading ....... 311
Hui-Chun Lin, Yueh-Chi Luo, Weijane Lin and Hsiu-Ping Yueh

The Design and Development of Electronic Schoolbag System Based on Educational Cloud Service Platform .......... 313
Fati Wu and Zhijia Mou

The Development of the Haiku Application Corresponding to Specification Changes and Its Evaluation ....................... 321
Nobuhiko Takada, Issei Yoshida, Masami Suzuki and Ryoichi Yanagisawa

The Strategies for Designing Collaborative Scripts ....................... 325
Qian Zhao, Guang Chen and Liang Yu

Thinking of Everyone: Responsive Web Design for a Math OER Project ........................................... 329
Hongxin Yan and Lawrence Poon

Toward Recommending Learning Tasks in a Learner-Centered Approach ................................................... 337
Hazra Imran, Mohammad Belghis-Zadeh, Ting-Wen Chang, Kinshuk and Sabine Graf

Towards an ICT Framework for Providing Inclusive Learning Objects for Indigenous Learners ................................. 345
John Loewen, David Loewen, Kinshuk and Jarkko Suhonen
Towards Flipped Learning Using Ubiquitous Learning Log System in L2 Learning Class .......................... 353
Noriko Uosaki, Hiroaki Ogata and Kousuke Mouri

Towards Smart Asynchronous Discussion Activity: Using Social Network Analysis to Investigate Students’ Discussion Patterns ...... 361
Jeonghyun Kim, Hyeyun Lee, Yesom Yoo, Hanall Sung, Il-Hyun Jo and Yeonjeong Park

Tracking Students’ Eye-Movements on Visual Dashboard Presenting Their Online Learning Behavior Patterns ............... 371
Kunhee Ha, Il-Hyun Jo, Sohye Lim and Yeonjeong Park

Unfolding Learning Analytics for Big Data ............................... 377
Jeremie Seanosky, David Boulanger, Vivekanandan Kumar and Kinshuk

Usefulness of Peer Comments for English Language Writing Through Web-Based Peer Assessment ......................... 385
Zhi Ying Ng, Wan Ying Tay and Young Hoan Cho

User-Centered Design of Interactive Gesture-Based Fitness Video Game for Elderly ................................. 393
Feng-Ru Sheu, Yun-Lin Lee, Shio-Jeng Yang and Nian-Shing Chen
Emerging Issues in Smart Learning
Chen, G.; Kumar, V.; Kinshuk; Huang, R.; Kong, S.C. (Eds.)
2015, XIV, 397 p. 115 illus., Hardcover
ISBN: 978-3-662-44187-9