Contents

International Workshop on Web Intelligence and Learning

A Web-Based Virtual Lab Platform for Algorithm Learning . . . . . . . . . . . . . 3
Yu Sheng, Wei Zhou, and Jianxin Wang

A Genetic Algorithm-Based Multiple Characteristics Grouping Strategy
for Collaborative Learning . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 11
Hui-Wen Tien, Yu-Shih Lin, Yi-Chun Chang, and Chih-Ping Chu

Adaptation Based on Navigation Type and Learning Style . . . . . . . . . . . . . 23
Nabila Bousbia, Amina Gheffar, and Amar Balla

A Novel Recommendation Relevancy Measure for Collaborative Filtering . . . 32
Bo Shu, Zhendong Niu, Chunxia Zhang, Xiaotian Jiang, Hongping Fu, and Wei Chen

Automatic Clustering of Research Articles Using Domain Ontology
and Fuzzy Logic . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 42
Ramanathan Periakaruppan and Rethinaswamy Nadarajan

Model of Teachers’ Personalized Decision Making on Activities
and Resources in Web-Based Training . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 52
Kai-li Wang and Wen-ya Liu

International Symposium on Knowledge Management and E-Learning

Analyzing Learning Flows in Digital Learning Ecosystems . . . . . . . . . . . . . . . 63
Maka Eradze, Kai Pata, and Mart Laanpere

Research Trends of Language Learning in Virtual Reality from 2003 to 2012:
A Content Analysis . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 73
Tsun-Ju Lin, Yu-Ju Lan, and Yu-Hsuan Kan

International Workshop on Ubiquitous Social Learning

An Interactive 3D Social Graphs for Social Learning . . . . . . . . . . . . . . . . . . . . 85

Improving KeyNote Trust Management Model Based on User Behavior
for Social Learning . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 96
Rui Xu, Guangquan Xu, Dazhi Sun, Xiaohong Li, and Zhiyong Feng
International Workshop on E-Book and Education Cloud

Enhancing Teamwork Performance in Mobile Cloud-Based Learning . . . . . . . 107
  Geng Sun and Jun Shen

An E-Book Based Competitive Learning System for Conducting Mobile
Plants Learning Activities to Improving Student Learning Outcome. . . . . . 118
  Hsueh-Liang Lin, Chen-Chien Fang, Yen-Ning Su, Chia-Cheng Hsu,
  Ming-Yi Shih, and Yueh-Min Huang

The E-Book Learning System with Problem-Based Learning in a Public
Health Nursing Practice Course. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 128
  Shu-Hsien Huang, Ting-Ting Wu, and Yueh-Min Huang

Increasing Students’ Vocabulary Size Through the Use of Latent Semantic
Analysis in a Mobile Learning Environment. . . . . . . . . . . . . . . . . . . . . . . . . 136
  Yu-Fang Chiou, Bor-Chen Kuo, and Chen-Huei Liao

Analyzing Immersion in Digital Game-Based E-Book Learning Through
Learners’ Facial Expressions. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 145
  Hong-Ren Chen, Qing-Fu Chen, and Yeng-Lin Lu

International Workshop on Cloud Computing for Web-Based Learning

The Learning Effect of Students’ Cognitive Styles in Using
Cloud Technology. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 155
  Ching-Hung Yeh and Chia-Cheng Hsu

Framework of Supporting Structured Game Script Learning System . . . . . . 164
  Feng-Jung Liu and Chun-Wei Tseng

Performance Analysis Using Petri Net Based MapReduce Model
in Heterogeneous Clusters . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 170
  Sheng-Tzong Cheng, Hsi-Chuan Wang, Yin-Jun Chen, and Chen-Fei Chen

Integration of MapReduce with an Interactive Boosting Mechanism
for Image Background Subtraction in Cultural Sightseeing . . . . . . . . . . . . . . 180
  Sheng-Tzong Cheng, Yin-Jun Chen, Yu-Ting Wang, and Chen-Fei Chen

An Weighted-Content Strategy for Integrating Heterogeneous Itembanks . . . 192
  Shih-Pang Tseng, Wen-Hsiang Fu, and Chu-Sing Yang

Teaching Effectively with the Multi-screen Multimedia Integrated System . . 201
  Tsung-Sheng Cheng, Yu-Chun Lu, and Chu-Sing Yang
International Workshop on Smart Living and Learning

Preliminary Investigation of Interactive Behaviors in Distant Collaborative Exergame .......................... 213
   Wu-Yuin Hwang, Kanoksak Wattanachote, Timothy K. Shih,
   Shih-Ching Yeh, and Shi-Yi Zhan

Second Heart Sound (S2) Decomposition by Hilbert Vibration Decomposition (HVD) for Affective Signal Modeling and Learning ......................... 223
   Shovan Barma, Bo-Wei Chen, Hung-Ming Wang, Hung-Jui Wang,
   and Jhing-Fa Wang

Clustering XML Documents for Web Based Learning ...................... 234
   Ramanathan Periakaruppan and Rethinaswamy Nadarajan

Cultural Sensitivity Training Task: An Avenue of Enhancing Students’ Cultural Awareness and Its Perspectives of Web-Based Learning ................. 244
   Jaw-Shyang Wu, Tun-Whet Chuo, and Shu-Chin Yen

Web-Based-Learning via Tajen Cloud .................................. 253
   Wuu-Wen Lin and Chiou-Mei Chen

Complementary to Web-Based Education on Summer Camp of Marine Energy ........................................ 259
   Chung-Liang Chen and Wuu-Wen Lin

Web-Based Ubiquitous Learning ........................................ 265
   Chiou-Mei Chen and Wuu-Wen Lin

A Virtual Reality Based Training System for Cultural Tourism .......... 272
   Shih-Pang Tseng, Mei-Wen Huang, Hsu-Jung Liu, Chao-Cheng Chung,
   and Chun-Mei Chiu

Author Index ................................................................. 279
Advances in Web-Based Learning - ICWL 2013 Workshops
USL 2013, IWSLL 2013, KMEL 2013, IWCWL 2013, WIL
2013, and IWEEC 2013, Kenting, Taiwan, October 6-9,
2013, Revised Selected Papers
Chiu, D.K.W.; Wang, M.; Popescu, E.; Li, Q.; Lau, R.; Shih,
T.K.; Yang, C.-S.; Sampson, D.G. (Eds.)
2015, XXIII, 280 p. 130 illus., Softcover
ISBN: 978-3-662-46314-7