Foreword

The 16th International Conference on Human–Computer Interaction, HCI International 2014, was held in Heraklion, Crete, Greece, during June 22–27, 2014, incorporating 14 conferences/thematic areas:

Thematic areas:

- Human–Computer Interaction
- Human Interface and the Management of Information

Affiliated conferences:

- 11th International Conference on Engineering Psychology and Cognitive Ergonomics
- 8th International Conference on Universal Access in Human–Computer Interaction
- 6th International Conference on Virtual, Augmented and Mixed Reality
- 6th International Conference on Cross-Cultural Design
- 6th International Conference on Social Computing and Social Media
- 8th International Conference on Augmented Cognition
- 5th International Conference on Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management
- Third International Conference on Design, User Experience and Usability
- Second International Conference on Distributed, Ambient and Pervasive Interactions
- Second International Conference on Human Aspects of Information Security, Privacy and Trust
- First International Conference on HCI in Business
- First International Conference on Learning and Collaboration Technologies

A total of 4,766 individuals from academia, research institutes, industry, and governmental agencies from 78 countries submitted contributions, and 1,476 papers and 225 posters were included in the proceedings. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers thoroughly cover the entire field of human–computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas.

This volume, edited by Panayiotis Zaphiris and Andri Ioannou, contains papers focusing on the thematic area of learning and collaboration technologies, addressing the following major topics:

- Virtual and augmented learning environments
- Mobile and ubiquitous learning
- Technology@school
- Collaboration, learning and training

The remaining volumes of the HCI International 2014 proceedings are:

- Volume 1, LNCS 8510, Human–Computer Interaction: HCI Theories, Methods and Tools (Part I), edited by Masaaki Kurosu
- Volume 2, LNCS 8511, Human–Computer Interaction: Advanced Interaction Modalities and Techniques (Part II), edited by Masaaki Kurosu
- Volume 3, LNCS 8512, Human–Computer Interaction: Applications and Services (Part III), edited by Masaaki Kurosu
- Volume 4, LNCS 8513, Universal Access in Human-Computer Interaction: Design and Development Methods for Universal Access (Part I), edited by Constantine Stephanidis and Margherita Antona
- Volume 5, LNCS 8514, Universal Access in Human–Computer Interaction: Universal Access to Information and Knowledge (Part II), edited by Constantine Stephanidis and Margherita Antona
- Volume 6, LNCS 8515, Universal Access in Human–Computer Interaction: Aging and Assistive Environments (Part III), edited by Constantine Stephanidis and Margherita Antona
- Volume 7, LNCS 8516, Universal Access in Human–Computer Interaction: Design for All and Accessibility Practice (Part IV), edited by Constantine Stephanidis and Margherita Antona
- Volume 8, LNCS 8517, Design, User Experience, and Usability: Theories, Methods and Tools for Designing the User Experience (Part I), edited by Aaron Marcus
- Volume 9, LNCS 8518, Design, User Experience, and Usability: User Experience Design for Diverse Interaction Platforms and Environments (Part II), edited by Aaron Marcus
- Volume 10, LNCS 8519, Design, User Experience, and Usability: User Experience Design for Everyday Life Applications and Services (Part III), edited by Aaron Marcus
- Volume 11, LNCS 8520, Design, User Experience, and Usability: User Experience Design Practice (Part IV), edited by Aaron Marcus
- Volume 12, LNCS 8521, Human Interface and the Management of Information: Information and Knowledge Design and Evaluation (Part I), edited by Sakae Yamamoto
- Volume 13, LNCS 8522, Human Interface and the Management of Information: Information and Knowledge in Applications and Services (Part II), edited by Sakae Yamamoto
- Volume 14, LNCS 8523, Learning and Collaboration Technologies: Designing and Developing Novel Learning Experiences (Part I), edited by Panayiotis Zaphiris and Andri Ioannou
- Volume 16, LNCS 8525, Virtual, Augmented and Mixed Reality: Designing and Developing Virtual and Augmented Environments (Part I), edited by Randall Shumaker and Stephanie Lackey
I would like to thank the Program Chairs and the members of the Program Boards of all affiliated conferences and thematic areas, listed below, for their contribution to the highest scientific quality and the overall success of the HCI International 2014 Conference.

This conference could not have been possible without the continuous support and advice of the founding chair and conference scientific advisor, Prof. Gavriel Salvendy, as well as the dedicated work and outstanding efforts of the communications chair and editor of *HCI International News*, Dr. Abbas Moallem.

I would also like to thank for their contribution towards the smooth organization of the HCI International 2014 Conference the members of the Human–Computer Interaction Laboratory of ICS-FORTH, and in particular George Paparoulis, Maria Pitsoulaki, Maria Bouhli, and George Kapnas.

April 2014

Constantine Stephanidis
General Chair, HCI International 2014
Organization

Human–Computer Interaction

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<table>
<thead>
<tr>
<th>Name</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yee-Yin Choong</td>
<td>USA</td>
</tr>
<tr>
<td>Paul Fu</td>
<td>USA</td>
</tr>
<tr>
<td>Zhiyong Fu</td>
<td>P.R. China</td>
</tr>
<tr>
<td>Pin-Chao Liao</td>
<td>P.R. China</td>
</tr>
<tr>
<td>Dyi-Yih Michael Lin</td>
<td>Taiwan</td>
</tr>
<tr>
<td>Rungta Lin</td>
<td>Taiwan</td>
</tr>
<tr>
<td>Ta-Ping (Robert) Lu</td>
<td>Taiwan</td>
</tr>
<tr>
<td>Liang Ma</td>
<td>P.R. China</td>
</tr>
<tr>
<td>Alexander Mädche</td>
<td>Germany</td>
</tr>
<tr>
<td>Sheau-Farn Max Liang</td>
<td>Taiwan</td>
</tr>
<tr>
<td>Katsuhiko Ogawa</td>
<td>Japan</td>
</tr>
<tr>
<td>Tom Plocher</td>
<td>USA</td>
</tr>
<tr>
<td>Huatong Sun</td>
<td>USA</td>
</tr>
<tr>
<td>Emil Tso</td>
<td>P.R. China</td>
</tr>
<tr>
<td>Hsiu-Ping Yueh</td>
<td>Taiwan</td>
</tr>
<tr>
<td>Liang (Leon) Zeng</td>
<td>USA</td>
</tr>
<tr>
<td>Jia Zhou</td>
<td>P.R. China</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Name</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leonelo Almeida</td>
<td>Brazil</td>
</tr>
<tr>
<td>Chee Siang Ang</td>
<td>UK</td>
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<tr>
<td>Aneesha Bakharia</td>
<td>Australia</td>
</tr>
<tr>
<td>Ania Bobrowicz</td>
<td>UK</td>
</tr>
<tr>
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<td>USA</td>
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<td>UK</td>
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<tr>
<td>Carsten Kleiner</td>
<td>Germany</td>
</tr>
<tr>
<td>Niki Lambropoulos</td>
<td>Greece</td>
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<td>UK</td>
</tr>
<tr>
<td>Anthony Norcio</td>
<td>USA</td>
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<td>USA</td>
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<td>UK</td>
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<td>Germany</td>
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<td>USA</td>
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<tr>
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<td>USA</td>
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<tr>
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<td>USA</td>
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<tr>
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<td>USA</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Name</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ahmed Abdelkhalek</td>
<td>USA</td>
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<tr>
<td>Robert Atkinson</td>
<td>USA</td>
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<td>USA</td>
</tr>
</tbody>
</table>
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<th>Reviewer</th>
<th>Country</th>
</tr>
</thead>
<tbody>
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<tr>
<td>Iosif Klironomos, Greece</td>
<td>Greece</td>
</tr>
<tr>
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<td>Greece</td>
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<tr>
<td>Vassilis Kouroumalis, Greece</td>
<td>Greece</td>
</tr>
<tr>
<td>Asterios Leonidis, Greece</td>
<td>Greece</td>
</tr>
<tr>
<td>George Margetis, Greece</td>
<td>Greece</td>
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<tr>
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<td>Greece</td>
</tr>
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<td>Greece</td>
</tr>
</tbody>
</table>
The 15th International Conference on Human–Computer Interaction, HCI International 2015, will be held jointly with the affiliated conferences in Los Angeles, CA, USA, in the Westin Bonaventure Hotel, August 2–7, 2015. It will cover a broad spectrum of themes related to HCI, including theoretical issues, methods, tools, processes, and case studies in HCI design, as well as novel interaction techniques, interfaces, and applications. The proceedings will be published by Springer. More information will be available on the conference website: http://www.hci2015.org/

General Chair
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## Table of Contents – Part II

**Virtual and Augmented Learning Environments**

The Effect of Split Attention in Surgical Education .......................... 3  
Erol Özçelik, Nergiz Ercil Cagiltay, Gokhan Sengul,  
Emre Tuner, and Bulent Unal

Supporting Learning with 3D Interactive Applications in Early Years ... 11  
Antonia Cascales Martínez, María-José Martínez-Segura,  
Maria Laguna-Segovia, David C. Pérez-López, and Manuel Contero

Interrelation between Pedagogical Design and Learning Interaction  
Patterns in different Virtual Learning Environments .......................... 23  
Maka Eradze and Mart Laanpere

BIZZY – A Social Game for Entrepreneurship Education .................. 33  
Benjamim Fonseca, Ramiro Gonçalves, Ricardo Rodrigues Nunes,  
Mário Sérgio Teixeira, Hugo Paredes, Leonel Morgado, and  
Paulo Martins

An Approach to Holistic Development of Serious Games and Learning  
Simulations ................................................................. 42  
Aleshia T. Hayes

Experiencing Physical and Technical Phenomena in Schools Using  
Virtual Reality Driving Simulator ........................................ 50  
Polina Häfner, Victor Häfner, and Jivka Ovtcharova

Weaving User Immersive Experiences: Scientific Curiosity and  
Reasoning with Bodily Feelings Mapping and Evolution ............... 62  
Niki Lambropoulos and Tharrenos Bratitsis

HaptiChem: Haptic and Visual Support in Interactions with the  
Microscopic World .......................................................... 72  
Elisa Magnanelli, Gianluca Brero, Rosa Virginia Espinoza Garnier,  
Giacomo Mazzoletti, Alessandro Maria Rizzi, and Sara Comai

Augmented Reality Applications in the Engineering Environment ...... 83  
Karle Olalde Azkorreta and Héctor Olmedo Rodríguez

User Experience Observations on Factors That Affect Performance in a  
Road-Crossing Training Application for Children Using the CAVE ...... 91  
Aimilia Tzanavari, Skevi Matsentidou, Chris G. Christou, and  
Charalambos Poullis
# Table of Contents – Part II

## Mobile and Ubiquitous Learning

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Context Dependent Preference Acquisition with Personality-Based Active Learning in Mobile Recommender Systems</td>
<td>105</td>
</tr>
<tr>
<td>Matthias Braunhofer, Mehdi Elahi, Mouzhi Ge, and Francesco Ricci</td>
<td></td>
</tr>
<tr>
<td>Mobile Apps for Older Users – The Development of a Mobile Apps Repository for Older People</td>
<td>117</td>
</tr>
<tr>
<td>Francisco J. García-Peñalvo, Miguel Ángel Conde, and Vicente Matellán-Olivera</td>
<td></td>
</tr>
<tr>
<td>Development of the Learning System for Outdoor Study Using Zeigarnik Effect</td>
<td>127</td>
</tr>
<tr>
<td>Yuko Hiramatsu, Atsushi Ito, Masahiro Fujii, and Fumihiro Sato</td>
<td></td>
</tr>
<tr>
<td>Dream Drill: A Bedtime Learning Application</td>
<td>138</td>
</tr>
<tr>
<td>Aya Ikeda and Itiro Siio</td>
<td></td>
</tr>
<tr>
<td>Sustaining Outside-of-Class CALL Activities by Means of a Student Self-Evaluation System in a University Blended Learning EFL</td>
<td>146</td>
</tr>
<tr>
<td>Yasushige Ishikawa, Reiko Akahane-Yamada, Misato Kitamura, Craig Smith, Yasushi Tsubota, and Masatake Dantsuji</td>
<td></td>
</tr>
<tr>
<td>Society@school: Towards an e-Inclusion App for Social Reading</td>
<td>155</td>
</tr>
<tr>
<td>Longo Lucia, Guercio Elena, Tedde Alessandra, Belluati Maurizio, and Actis-Grosso Rossana</td>
<td></td>
</tr>
<tr>
<td>Sensor Based Interaction Mechanisms in Mobile Learning</td>
<td>165</td>
</tr>
<tr>
<td>Kai-Uwe Martin, Madlen Wuttke, and Wolfram Hardt</td>
<td></td>
</tr>
<tr>
<td>Visual and Spatial Data Integration in Mobile Application Design</td>
<td>173</td>
</tr>
<tr>
<td>Patricia Morreale, Allan Goncalves, Daniel Church, Steven Holtz, Joshua Lisojo, Nathaly Lozano, Carlos Silva, and Jason Bonafide</td>
<td></td>
</tr>
<tr>
<td>Exploring Simulated Provocations: Supporting Pre-Service Teachers’ Reflection on Classroom Management</td>
<td>182</td>
</tr>
<tr>
<td>Mathias Nordvall, Mattias Arvola, and Marcus Samuelsson</td>
<td></td>
</tr>
<tr>
<td>Rapid Prototyping for Mobile Serious Games</td>
<td>194</td>
</tr>
<tr>
<td>José Rouillard, Audrey Serna, Bertrand David, and René Chalon</td>
<td></td>
</tr>
<tr>
<td>Creating Universal Designed and Trustworthy Objects for the Internet of Things</td>
<td>206</td>
</tr>
<tr>
<td>Trenton Schulz</td>
<td></td>
</tr>
<tr>
<td>Prototyping M-Learning Course on the Basis of Puzzle Learning Methodology</td>
<td>215</td>
</tr>
<tr>
<td>Krzysztof Szklanny and Marcin Wichrowski</td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Page</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Posture and Face Detection with Dynamic Thumbnail Views for Collaborative Distance Learning</td>
<td>227</td>
</tr>
<tr>
<td>Takumi Yamaguchi, Haruya Shiba, Masanobu Yoshida, Yusuke Nishiuchi, Hironobu Satoh, and Takahiko Mendori</td>
<td></td>
</tr>
<tr>
<td>Technology®School</td>
<td></td>
</tr>
<tr>
<td>Collaborative Tools in the Primary Classroom: Teachers’ Thoughts on Wikis</td>
<td>239</td>
</tr>
<tr>
<td>Andria Agesilaou, Christiana Vassiliou, Sotiroula Irakleous, and Maria Zenios</td>
<td></td>
</tr>
<tr>
<td>Computer Assisted Individual Approach to Acquiring Foreign Vocabulary of Students Major</td>
<td>248</td>
</tr>
<tr>
<td>Nadezhda Almazova and Marina Kogan</td>
<td></td>
</tr>
<tr>
<td>Immersive Creative Classrooms within the Zones of Educational Priorities in Greek Primary Schools</td>
<td>258</td>
</tr>
<tr>
<td>Antonios Besios and Niki Lambropoulos</td>
<td></td>
</tr>
<tr>
<td>Enhancing Online Learning Activities for Groups in Flipped Classrooms</td>
<td>269</td>
</tr>
<tr>
<td>Reecha Bharali</td>
<td></td>
</tr>
<tr>
<td>Does CMC Reduce Foreign Language Classroom Anxiety?</td>
<td>277</td>
</tr>
<tr>
<td>Adel Jebali</td>
<td></td>
</tr>
<tr>
<td>The Role of Educational Technologist in Implementing New Technologies at School</td>
<td>288</td>
</tr>
<tr>
<td>Birgy Lorenz, Kaido Kikkas, and Mart Laanpere</td>
<td></td>
</tr>
<tr>
<td>Facilitating Student Reflection through Digital Technologies in the iTEC Project: Pedagogically-Led Change in the Classroom</td>
<td>297</td>
</tr>
<tr>
<td>Sarah McNicol, Cathy Lewin, Anna Keune, and Tarmo Toikkanen</td>
<td></td>
</tr>
<tr>
<td>Which Is More Effective for Learning German and Japanese Language, Paper or Digital?</td>
<td>309</td>
</tr>
<tr>
<td>Reina Shimizu and Katsuhiko Ogawa</td>
<td></td>
</tr>
<tr>
<td>Monitoring Teachers’ Complex Thinking while Engaging in Philosophical Inquiry with Web 2.0</td>
<td>319</td>
</tr>
<tr>
<td>Agni Stylianou-Georgiou, Alexios Petrou, and Andri Ioannou</td>
<td></td>
</tr>
<tr>
<td>Developing an Effective ESP Curriculum Integrating CALL</td>
<td>328</td>
</tr>
<tr>
<td>Rumi Tobita</td>
<td></td>
</tr>
<tr>
<td>HCI Requirements for Young Primary School CALL Learners</td>
<td>339</td>
</tr>
<tr>
<td>Monica Ward</td>
<td></td>
</tr>
</tbody>
</table>
# Collaboration, Learning and Training

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Portfolios – Fostering Systematic Reflection in Social Work Education</td>
<td>351</td>
</tr>
<tr>
<td>Patricia Arnold and Swapna Kumar</td>
<td></td>
</tr>
<tr>
<td>European Citizens and Their Trust in Social Networks</td>
<td>363</td>
</tr>
<tr>
<td>Gianmarco Baldini, Ioannis Kounelis, Jan Löschner, and Mariachiara Tallacchini</td>
<td></td>
</tr>
<tr>
<td>Towards Aggression De-escalation Training with Virtual Agents: A Computational Model</td>
<td>375</td>
</tr>
<tr>
<td>Tibor Bosse and Simon Provoost</td>
<td></td>
</tr>
<tr>
<td>Mosca: A Case Study on Collaborative Work – Combining Dimensions while Learning</td>
<td>388</td>
</tr>
<tr>
<td>Sílvia Castro</td>
<td></td>
</tr>
<tr>
<td>A New Way to Community Services: Communication with Administration</td>
<td>397</td>
</tr>
<tr>
<td>Habib M. Fardoun, Daniyal M. Alghazzawi, Antonio Paules Ciprés, and Sebastián Romero López</td>
<td></td>
</tr>
<tr>
<td>Online Collaboration: Individual Involvement Used to Predict Team Performance</td>
<td>408</td>
</tr>
<tr>
<td>Walkyria Goode and Guido Caicedo</td>
<td></td>
</tr>
<tr>
<td>Interface Design for a Real-Time Collaborative Editing Tool</td>
<td>417</td>
</tr>
<tr>
<td>Nurul Naslia Khairuddin</td>
<td></td>
</tr>
<tr>
<td>If I Do Not Like Your Online Profile I Will Not Hire You!</td>
<td>429</td>
</tr>
<tr>
<td>Birgy Lorenz and Kaido Kikkas</td>
<td></td>
</tr>
<tr>
<td>Collaboration, Knowledge Sharing and Digital Environments: What about Argumentation and Questioning Skills?</td>
<td>440</td>
</tr>
<tr>
<td>Maria José (Zé) Loureiro, Francislê Neri de Souza, Anna Bezerra, and Ana Rodrigues</td>
<td></td>
</tr>
<tr>
<td>Active Ageing – Enhancing Digital Literacies in Elderly Citizens</td>
<td>450</td>
</tr>
<tr>
<td>Ana Loureiro and Maria Barbas</td>
<td></td>
</tr>
<tr>
<td>Reflective Thinking: Exploring Blog Use by Adult Learners</td>
<td>460</td>
</tr>
<tr>
<td>Maria Mama Timotheou</td>
<td></td>
</tr>
<tr>
<td>Digital Identity of Researchers and Their Personal Learning Network</td>
<td>467</td>
</tr>
<tr>
<td>Nuno Ricardo Oliveira and Lina Morgado</td>
<td></td>
</tr>
<tr>
<td>Blended Simulation Based Medical Education: A Complex Learning/Training Opportunity</td>
<td>478</td>
</tr>
<tr>
<td>Armineh Shahoumian, Murray Saunders, Maria Zenios, Gale Parchoma, and Jacky Hanson</td>
<td></td>
</tr>
</tbody>
</table>
Finding and Exploring Commonalities between Researchers Using the ResXplorer ...................................................... 486

Selver Softic, Laurens De Vocht, Erik Mannens,
Rik Van de Walle, and Martin Ebner

Author Index .......................................................... 495
# Table of Contents – Part I

## Design of Learning Technologies

<table>
<thead>
<tr>
<th>Title</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Sprints: Combining Teacher Training, Design Thinking and Hackathons</td>
<td>3</td>
</tr>
<tr>
<td>Gemma Aguado, Carles Fernández, Muriel Garreta-Domingo, Roger Griset, and Àlicia Valls</td>
<td></td>
</tr>
<tr>
<td>Canvas to Improve the Design Process of Educational Animation</td>
<td>13</td>
</tr>
<tr>
<td>André L. Battaiola, Márcia Maria Alves, and Rafael Eduardo Paulin</td>
<td></td>
</tr>
<tr>
<td>Investigating Heuristic Evaluation as a Methodology for Evaluating Pedagogical Software: An Analysis Employing Three Case Studies</td>
<td>25</td>
</tr>
<tr>
<td>Mike Brayshaw, Neil Gordon, Julius Nganji, Lipeng Wen, and Adele Butterfield</td>
<td></td>
</tr>
<tr>
<td>A Narrative Research Approach: The Experiences of Social Media Support in Higher Education</td>
<td>36</td>
</tr>
<tr>
<td>Alev Elçi and Begüm Çubukçuoğlu Devran</td>
<td></td>
</tr>
<tr>
<td>An Interactive Installation for the Architectural Analysis of Space and Form in Historical Buildings</td>
<td>43</td>
</tr>
<tr>
<td>Luis Antonio Hernández Ibáñez and Viviana Barneche Naya</td>
<td></td>
</tr>
<tr>
<td>Introducing a Challenging Teachable Agent</td>
<td>53</td>
</tr>
<tr>
<td>Camilla Kirkegaard, Agneta Gulz, and Annika Silvervarg</td>
<td></td>
</tr>
<tr>
<td>File Formats Security – Proprietary vs. Open-Source</td>
<td>63</td>
</tr>
<tr>
<td>Edmund Laugasson and Kaido Kikkas</td>
<td></td>
</tr>
<tr>
<td>A Review of Storyboard Tools, Concepts and Frameworks</td>
<td>73</td>
</tr>
<tr>
<td>Nor’ain Mohd Yusoff and Siti Salwah Salim</td>
<td></td>
</tr>
<tr>
<td>Designing Learning Tools: The Case of a Competence Assessment Tool</td>
<td>83</td>
</tr>
<tr>
<td>Enric Mor, Ana-Elena Guerrero-Roldán, Enosha Hettiarachchi, and M. Antonia Huertas</td>
<td></td>
</tr>
<tr>
<td>Blogging Revisited: The Use of Blogs in ESAP Courses</td>
<td>95</td>
</tr>
<tr>
<td>Anna Nicolaou and Elis Kakoulli Constantinou</td>
<td></td>
</tr>
<tr>
<td>Learner Engagement in Computer-Supported Collaborative Learning Activities: Natural or Nurtured?</td>
<td>107</td>
</tr>
<tr>
<td>Andriani Piki</td>
<td></td>
</tr>
</tbody>
</table>
Digital Literacy for All Through Integrative STEM .......................... 119
   Leo A. Siiman, Carlos Manuel Pacheco Cortés, and Margus Pedaste

A Model for Human-Computer Trust: Contributions Towards
Leveraging User Engagement .................................................. 128
   Sonia Sousa, David Lamas, and Paulo Dias

Going Digital: Literature Review on E-textbooks ....................... 138
   Terje Väljataga and Sebastian H.D. Fiedler

Novel Approaches in eLearning

HIP – A Technology-Rich and Interactive Multimedia Pedagogical
Platform .................................................................................. 151
   Ali Shariq Imran and Stewart James Kowalski

Cloud Storage Services in Higher Education – Results of a Preliminary
Study in the Context of the Sync&Share-Project in Germany .... 161
   Christian Meske, Stefan Stieglitz, Raimund Vogl,
   Dominik Rudolph, and Ayten Öksüz

An HTML5-Based Online Editor for Creating Annotated Learning
Videos ...................................................................................... 172
   Jan-Torsten Milde

From Information Systems to e-Learning 3.0 Systems’s Critical Success
Factors: A Framework Proposal ................................................ 180
   Paula Miranda, Pedro Isaias, and Carlos J. Costa

Exploring the Validity of an Instrument to Measure the Perceived
Quality in Use of Web 2.0 Applications with Educational Potential .... 192
   Tihomir Orehovački, Snježana Babić, and Mario Jadrić

Promoting Distributed Cognition at MOOC Ecosystems .............. 204
   Kai Pata and Emanuele Bardone

Layout Considered Harmful: On the Influence of Information
Architecture on Dialogue .......................................................... 216
   Peter Purgathofer and Naemi Luckner

Analyzing Interactivity in Asynchronous Video Discussions .......... 226
   Hannes Rothe, Janina Sundermeier, and Martin Gersch

Assessing the Need of Augmenting Video Lectures with Supporting
Information ................................................................................ 238
   Gaurav Kumar Singh, Abhay Doke, Varun Kumar,
   Savita Bhat, and Niranjan Pedanekar
## Low-Achieving Students’ Perceptions of Online Language Learning: A Case of English Proficiency Threshold

**Ai-Ling Wang, Yuh-Chang Lin, and Shu-Fen Chang**

---

## Student Modeling and Learning Behaviour

- **Card Sorting Assessing User Attitude in E-Learning**
  
  **Ghada R. El Said**

- **Empirical Analysis of Changes in Human Creativity in People Who Work with Humanoid Robots and Their Avatars**
  
  **Doori Jo, Jae-gil Lee, and Kun Chang Lee**

- **Empowering L&D Managers through Customisation of Inline Learning Analytics**
  
  **Evangelos Kapros and Neil Peirce**

- **Fuzzy Student Modeling for Personalization of e-Learning Courses**
  
  **Carla Limongelli and Filippo Sciarrone**

- **Slow Learner Children Profiling for Designing Personalized eBook**
  
  **Marzita Mansor, Wan Adilah Wan Adnan, and Natrah Abdullah**

- **A Web Analytics and Visualization Tool to Understand Students’ Behavior in an Adaptive E-Learning System**
  
  **Barbara Moissa, Lucas Simões de Carvalho, and Isabela Gasparini**

- **Markov Chain and Classification of Difficulty Levels Enhances the Learning Path in One Digit Multiplication**
  
  **Behnam Taraghi, Anna Saranti, Martin Ebner, and Martin Schön**

- **The Emotion Component on Usability Testing Human Computer Interface of an Inclusive Learning Management System**
  
  **Vânia R. Ulbricht, Carlos Henrique Berg, Luciane Fadel, and Silvia R.P. Quevedo**

- **Measuring Students’ Flow Experience in a Multimodal Learning Environment: A Case Study**
  
  **Christina Vasiliou, Andri Ioannou, and Panayiotis Zaphiris**

- **Attention Profiling Algorithm for Video-Based Lectures**
  
  **Josef Wachtler and Martin Ebner**

## Supporting Problem-Based, Inquiry-Based, Project Based and Blended Learning

- **Promoting Students’ Writing Skills in Science through an Educational Simulation: The GlobalEd 2 Project**
  
  **Scott W. Brown and Kimberly A. Lawless**
Distance Exchange Projects at Elementary School: A Focus on a Co-learning Process ................................................................. 380
   Anne Choffat-Dürr

Applying Gianni Rodari Techniques to Develop Creative Educational Environments ................................................................. 388
   Habib M. Fardoun, Iyad A. Kateb, Antonio Paules Ciprés, and Jaime Ramírez Castillo

Happy Girls Engaging with Technology: Assessing Emotions and Engagement Related to Programming Activities ......................... 398
   Michail N. Giannakos, Letizia Jaccheri, and Ioannis Leftheriotis

Dialogue, Knowledge Work and Tabletops: Lessons from Preservice Teacher Education ............................................................... 410
   Andri Ioannou, Maria Zenios, and Agni Stylianou

   Jung Hyup Kim

Development of a Fieldwork Support System for Group Work in Project-Based Learning .............................................................. 429
   Mikihiko Mori and Akihisa Tatsumi

Novel Didactic Proof Assistant for First-Order Logic Natural Deduction....................................................................................... 441
   Jorge Pais and Álvaro Tasistro

The Evolvement of Constructionism: An Overview of the Literature .... 452
   Antigoni Parmaxi and Panayiotis Zaphiris

Examining an Online Collaboration Learning Environment with the Dual Eye-Tracking Paradigm: The Case of Virtual Math Teams .......... 462
   Selin Deniz Uzunosmanoğlu and Murat Perit Çakir

Author Index .................................................................................. 473