

TABLE OF CONTENTS

A Participatory Development of a Web-based Communication Plat-form for Organizational Learning in a Government Department	1
<i>Thandi Mokoeni, Johnson Dehinbo & Kehinde Dehinbo, Tshwane University of Technology, South Africa</i>	
How Do Blogs and Wikis Support Social Constructivist Learning in Math	11
<i>Rana Zein, Zayed University, United Arab Emirates</i>	
The John Milton Digital Library	21
<i>Dana Haugh, Queens College, United States</i>	
Cartography of Controversies about MOOCs	25
<i>Md. Saifuddin Khalid & Elsebeth Korsgaard Sorensen, Aalborg University, Denmark</i>	
E-portfolio Framework for Collecting and Using K-12 Student Learning Records with Tablet Devices	36
<i>Yasuhiko Morimoto, Tokyo Gakugei University, Japan; Kashio Suzuki, FCE Education inc., Japan</i>	
Digital Finger Painting: An Exploration of the Tablet Computer and its Artistic Implications	46
<i>Sarah Ackermann, University of Missouri, St. Louis, Switzerland</i>	
Educational Application for Mobile Devices in Elderly Health Care Area: the Experience of a Public University	53
<i>Ana Emilia Oliveira & Rômulo França, UNA-SUS/UFMA, Brazil; Marcia Rendeiro, UNA-SUS/UERJ, Brazil; Elza Bernardes, UNA-SUS/UFMA, Brazil; Paulo Dias, UNA-SUS/UERJ, Brazil; Fernanda Pereira, UNA-SUS/UFMA, Brazil</i>	
Educators, Students, CALL, the Web, the Created but Dictated Culture, Beyond Immersion: The Promised Formula for Better Survival?	62
<i>Christine Sabieh, Notre Dame University, Lebanon</i>	
How Important Is It For Students To Know What Social Media Is To Use It?	69
<i>Christine Sabieh, Notre Dame University, Lebanon</i>	
Social Media and Students: A Tool for Learning?	80
<i>Christine Sabieh, Notre Dame University, Lebanon</i>	
(In)formality in Social Media Discourse: The Case of Instructors and Students in Saudi Higher Education	86
<i>Jamilah Alamri, University of Nottingham, United Kingdom</i>	

Native Student Technology in the Classroom: Exploring the Affordances of Twitter in Applying Critical Literacy to the English Curriculum	94
<i>Joshua Kunnath, Rebecca Rocha & Arika Jackson, California State University - Fresno, United States; Glenn DeVoogd, California State University, Fresno, United States</i>	
The user experience within the web 2.0 context: a review supported on the perspective of situated cognition theory	98
<i>Eurides Castro Jr, UNA-SUS/UFMA, Brazil; Rosane Obregon, Cassia Furtado & Ana Lucia Zandomeneghi, Federal University of Maranhão - UFMA, Brazil; Ana Emilia Oliveira, UNA-SUS/UFMA, Brazil</i>	
High Quality Lecture Recording with Minimal Bandwidth Requirements	106
<i>Eicke Godehardt & Thomas Gabel, Frankfurt University of Applied Sciences, Germany</i>	
Generation of learning paths in educational texts based on vocabulary co-occurrence networks in Wikipedia and randomness	119
<i>Lauri Lahti, Aalto University School of Science, Finland, Finland</i>	
Factors that support and inhibit the use of Web 2.0 technology tools among faculty and students in higher education.	126
<i>Reine Nyirenda, St. John's University, United States</i>	
Familiarity of Information and Records Management Students to Web 2.0 Tools: A Case Study on Blogs	128
<i>Burcu Umut Zan, University of Karatekin, Turkey</i>	
Self-efficacy as a construct for understanding teachers and students' engagement with Web 2.0 technologies	137
<i>Tarek Zoubir, King's College London, United Kingdom</i>	
The Word Cloud Illustration of the Cognitive Structures of Teacher Candidates about Teaching Concept	143
<i>Nuray Zan, University of Karatekin(Turkey), Turkey; Burcu Zan, Çank#r# Karatekin U, Turkey</i>	
Assessment For LearningA Global Perspective for Education Transformation	152
<i>Jon Price & Martina Roth, Intel Corporation, United States</i>	
A Classification Matrix of Examination Items to Promote Transformative Assessment	160
<i>Mark McMahon, Edith Cowan University, Australia; Michael Garrett, Cinglevue International, Australia</i>	

How eLearning Affects The Motivation Of Higher Education Students: A Case Study For StuDiAsE	170
<i>Maria Samarakou & Emmanouil Fylladitakis, Technological Educational Institute (T.E.I.) Of Athens, Greece; Wolf Gerrit Fruh, Heriot-Watt University, United Kingdom; Antonios Hatziapostolou, Technological Educational Institute (T.E.I.) Of Athens, Greece; Maria Grigoriadou, University of Athens, Greece</i>	
Targeted inversion of the tutorials in “Mathematics for Chemists”, a case study	176
<i>Franz-Josef Schmitt, Thilo Schönemann, Fabian Kruse, Franziska Egbers, Sascha Delitzscher & Jörn Weissenborn, TU Berlin, Germany; Ahmad Aljanazrah, Birzeit University, Palestinian Territory, Occupied; Thomas Friedrich, TU Berlin, Germany</i>	
The State Of Video in Education	186
<i>Michal Tsur & Justin Beck, Kaltura, United States</i>	
Online Lecturers’ Experience: A Reflection	189
<i>Paulina Pannen, Directorate General of Higher Education Ministry of Research, Technology, and Higher Education, Indonesia</i>	
Perspectives for Discussing the Next Information Studies Curriculum	198
<i>Toshiki Matsuda, Tokyo Institute of Technology, Japan</i>	
Development and Evaluation of Indicator for Internet Literacy to Efficient policy of Protection of Youth Online	207
<i>Nagayuki Saito, Aoyama Gakuin University Human Innovation Research Center, Japan; Tomohiko Yoshida, Institute for Information and Communications Policy, Japan; Kanji Akahori, Hakuho University, Japan</i>	
How Educational Technology Tools Can Solve Challenges In Teaching An Online Finance Course?	210
<i>Laura Vatsala & Shubha Pissay, Sikkim Manipal University -DDE, India</i>	
Teacher education students’ domestication of ICTs for teaching and learning	217
<i>Agnes Chigona, Cape Peninsula University of Technology, South Africa</i>	
A framework to support the introduction of teaching by competence	220
<i>Giovanna Chiozzi, Telecomitalia S.p.A., Italy; Silvio Giaffredo, Università di Trento, Italy; Marco Ronchetti, University of Trento, Italy</i>	
How and why do language teachers use ICT in a University in Saudi Arabia?	227
<i>Michael Hammond & Nada Gamlo, University of Warwick, United Kingdom</i>	

Teacher Readiness for 1 to 1 Learning Devices in the K-8 Classroom: Lessons Learned	237
<i>Jason Hodgson, Tirsia Tovar, Jocelyn Hively, Linda Hauser & Glenn DeVoogd, California State University, Fresno, United States</i>	
Assessment of Automotive Mechatronic Comprehensive Capacity: A innovative teaching models applying during the SGAVE project actual implementation in China	244
<i>KuiKui Zhang, Hunan communication polytechnic, China</i>	
Benchmarking Quality in Online Learning Programs in Higher Education	252
<i>Kaye Shelton, Lamar University, United States; Karen Pedersen, Online Learning Consortium, United States</i>	
Developing a Systematic Approach for Faculty Enrichment Using Detailed Assessments as a Basis	268
<i>Linda Merillat & Monica Scheibmeir, Washburn University, United States</i>	
The Teaching in Higher Education Quality Model (THEQM) and THEQMTOOL, a Supporting Web-based Tool	275
<i>Philippos Pouyioutas & Dimitri Apraksine, University of Nicosia, Cyprus</i>	
Green IT - Proposal of competence evaluation model	288
<i>Samuel Moraes, Celi Langhi & Marcos Crivelaro, Centro Estadual de Educação Tecnológica Paula Souza, Brazil</i>	
The Challenges of Creating a New, International, Educational Partnership: An Overview of Year One	298
<i>Ryan Baltrip, Southern Baptist Theological Seminary, United States</i>	
Earthducation: Capturing Global Intersections between Education and Sustainability	304
<i>Aaron Doering, University of Minnesota, United States; Jeni Henrickson, University of Minnesota, United States</i>	
Towards the construction of a theoretical and methodological framework to study partnership development for digital competences within the CompÉTICA network	313
<i>Viktor Freiman & Jeanne Godin, Université de Moncton, Canada; François Larose, Université de Sherbrooke, Canada; Yves Bourgeois, University of New Brunswick, Canada; Manon LeBlanc, Michel Léger, Xavier Robichaud, Roman Chukalovskyy & Danny Cormier, Université de Moncton, Canada; Wilfrid Pelletier, APTICA, Canada</i>	

Joint Software Engineering to support STEM Education: Experiences before, during and after a Children's University	319
<i>Dagmar Monett, Berlin School of Economics and Law (HWR Berlin), Germany; Josephine Greifenberg, CS Undergraduate Course IT2012, HWR Berlin, Germany; Anne Krautz, Maximilian Stöhr & Rico Ulbricht, Undergraduate Course IT2012, HWR Berlin, Germany</i>	
Student Observations of Global Learning:Towards a Formalized Assessment Plan for an IT Study Abroad Course	328
<i>Kun Shao & Peter Maher, Webster University, United States</i>	
Citizen Science, Crowdsourcing, and Constructivist Pedagogy	336
<i>John R Jungck, University of Delaware, United States</i>	
Barriers to the Integration and Adoption of iPads in Schools: A Systematic Literature Review based on the philosophy of "think global, act local."	342
<i>Md. Saifuddin Khalid, Gökce Kilic, Jeanette Christoffersen & Aparna Purushothaman, Aalborg University, Denmark</i>	
Integrating live delayed video feedback using mobile devices into a real life physical education setting	352
<i>Tom Madou & Jorge Cottyn, VIVES University College, Belgium</i>	
Role-Play Games as a Tool for STEM Career Inspiration and the Development of Scientific Possible Selves	357
<i>Leslie Miller, Rice University, United States</i>	
Fostering Active Knowledge Construction with the TEE-machine	362
<i>Gregor Dannik, Antje Proske & Hermann Körndle, Psychology of Learning and Instruction, TU Dresden, Germany</i>	
Project-Based Learning for Fostering Advanced Instructional Design Skills	368
<i>Yun Jeong Park, St. Cloud State University, United States</i>	
All for one and one for all! Collaboration in online learning environments	373
<i>Kim Livengood & Lesley Casarez, Angelo State University, United States</i>	
Collaborative Peer Learning Supports Cognitive Affordances of Technologies	378
<i>Michael Schulz, Kristin Ballard & Jodie Hemerda, University of the Rockies, United States</i>	

Mining Knowledge with Game Based Learning: Building Knowledge Through Connected Learning with the use of Minecraft in the Classroom	381
<i>Jami Roberts-Woychesin, Arts & Technology Institute, United States; Yulia Piller, Arts & Technology Institute, United States</i>	
How to provide feedback when teaching mathematics	389
<i>Alla Stolyarevska, Department of Computer Sciences, Ukraine</i>	
Implementation of a Modified Multi Objective Optimization GA Algorithm in A Stealth Assessment for School Readiness	396
<i>Iyad Suleiman, Bradford University, United Kingdom; Maha Arslan, Sakhnin College, Israel; Reda Alhaji, University of Calgary, Canada; Mick Ridley, University of Bradford, United Kingdom</i>	
Fostering Creativity through Inquiry and Adventure in Informal Learning Environment Design	406
<i>Aaron Doering & Jeni Henrickson, University of Minnesota, United States</i>	
Self-Assessment and Formative Assessment using Rubrics in an ePortfolio Environment	415
<i>Susan Oaks & Betty Hurley, Empire State College, State University of New York, United States</i>	
The Grass is Always Greener on the Other Side – or is it? Action research in the Web 2.0 classroom	420
<i>Natalie B. Sarrasin & Zarina Charlesworth, University of Applied Sciences Western Switzerland, Switzerland</i>	
A Model for the Integration of Digital Culture in Learning Environments and Lifestyle in a Teachers College	425
<i>Hanan Yaniv & Rivka Wadmany, Seminar Hakibbutzim College of Education, Israel</i>	
Theories to Support You: Purposeful Use of Learning Management System Features	432
<i>Charles Hodges, Georgia Southern University, United States; Michael Grant, University of South Carolina, United States</i>	
Preservice English Teachers Use Technology to Flip the Classroom	438
<i>Amy Piotrowski & Shelbie Witte, Florida State University, United States</i>	
High-Fidelity Simulation: Using Constructivism to Move Beyond the Books in Nursing Education	443
<i>Janice Qualls-Harris, University of Phoenix, United States</i>	

Realization and Evaluation of an Information Morals Education System by Experience of an assailant and a victim by Virtual reality	448
<i>Abdusalam Dawut, Xinjiang University, China; Hiroshi Nakayama & Rintarou Iwasaki, Tokyo Denki University, Japan; Toshiki Matsuda, Tokyo Institute of Technology, Japan</i>	
Assessing Learner-Generated Designs: Creative Productions and Playful Learning	457
<i>Reneta Lansiquot & Candido Cabo, New York City College of Technology, United States</i>	
Evaluation of Massive Open Online Courses (MOOCs): A Case Study	461
<i>Brenda Cecilia Padilla Rodríguez, University of Leicester, Universidad Autónoma de Nuevo León, Mexico; Terese Bird, University of Leicester, United Kingdom; Gráinne Conole, University of Bath Spa, United Kingdom</i>	
Teaching role in distance education at the UNAM	470
<i>Francisco Ramas, UNAM, Mexico</i>	
Women in technology:An underrepresented population	476
<i>Laurie O. Campbell, University of Central Florida, United States; Michelle Kepple, The University of Central Florida, United States; Christine Herlihy, University of Central Florida, United States</i>	
Guaranteed, something to do	482
<i>Helena Tirronen & Fanny Niemi-Junkola, Tampere University of Applied Sciences, Finland</i>	
A Proposed Model Combining Instructional Design and Software Engineering for Developing Virtual Learning Platforms	484
<i>Mohamed Elsayed Ahmed, School of Information Science Japan Advanced Institute of Science and Technology, Japan; Shinobu Hasegawa, Center for Graduate Education Initiative, Japan Advanced Institute of Science and Technology, Japan</i>	
Puppet Show System for Children With Hearing Disability: Evaluation of Story Participation Function With Physical Movement	494
<i>Ryohei Egusa, Kobe University, Japan; Tomohiro Nakayama & Takahiro Nakadai, Tokyo University of Science, Japan; Fusako Kusunoki, Tama Art University, Japan; Miki Namatame, Tsukuba University of Technology, Japan; Hiroshi Mizoguchi, Tokyo University of Science, Japan; Shigenori Inagaki, Kobe University, Japan</i>	
Intergenerational Learning of IT Literacy	500
<i>Kohta Tabata & Yoshio Yamagishi, Kanazawa Institute of Technology, Japan</i>	
One to One Technology and its Effect on Student Academic Achievement and Motivation	507
<i>Jennifer Harris & Adel Al-Bataineh, Illinois State University, United States</i>	

Challenges to Promote Inclusion in Distance Education: Insights from an Analysis of the Digital Skills of Visually Impaired Students in Mexican Higher Education	513
<i>Jesus Izquierdo, Universidad Juarez Autonoma de Tabasco, CIP-DAEA, Mexico; Silvia Patricia Aquino Zuniga & Veronica Garcia Martinez, Universidad Juarez Autonoma de Tabasco, Mexico</i>	
Early Childhood Teachers' Access to and Use of ICT in Teaching: The Case of Mainland China	517
<i>Xia Liu & Jenny Pange, Department of Early Childhood Education, University of Ioannina, Greece, Greece</i>	
A Flipped Classroom Model for Developing Universities in Developing Countries	524
<i>Muesser Nat, Cyprus International University, Cyprus</i>	
Scaffolding in the Sandpit	531
<i>Natalie Senjov-Makohon, Deakin University, Australia</i>	
Literature Review on Web 2.0 Conceptual Framework and Characteristics	538
<i>Rana Zein, Zayed University, United Arab Emirates</i>	
The influence of email notifications in asynchronous discussion on interaction patterns using social network analysis	548
<i>Amy Garbrick & Roy Clariana, Pennsylvania State University, United States</i>	
A Case Study of the Kamehameha Schools Online Instructor Training Institute: Preparing Teachers to Become Distance Learning Instructors Seven to Ten Years Later	552
<i>Dorothy Hirata, Kamehameha Schools, United States</i>	
Development and Evaluation of a Web-Based Virtual Classroom System for Collaborative Learning in an African University	558
<i>Gabriel Iwasokun & Johnson Dehinbo, Tshwane University of Technology, South Africa</i>	
The Impact Of Using Multimedia On Students' Learning In The Online Classroom	580
<i>Hwangji Lu, Colorado Technical University, United States</i>	
Gesture and Space for Teaching, Learning and Communicating Science Fiction	584
<i>Michael Sisley, Teloepa Park High School, Australia</i>	

Student Perceptions and Readiness on Using a Mobile Application for Vocabulary Acquisition	590
<i>#enol Bakay, Ömer Delialio#lu & Perihan Sava#, Middle East Technical University, Turkey</i>	
The World of MOOCs for a Child: The Case of Dino 101	597
<i>Catherine Adams & Yin Yin, University of Alberta, Canada</i>	
Paradigmatic Transitions in Distance Education: From Analog Communication to Virtual Interaction	602
<i>Bruno Galasso, University of São Paulo, Brazil; Maria Laura Toca, St. Nicholas, Brazil</i>	
Effective Online Teaching/Learning Methods for Upper Level Undergraduate Engineering Courses	608
<i>Prathivadi Ravikumar, Univ. of Wisconsin Platteville, United States</i>	
Paradox of Teacher and Student in Online Education and Societal Culture	616
<i>Peter Serdyukov, National University, United States</i>	
Implementation of MOOCs as Part of the Academic Curriculum at Tel Aviv University	627
<i>Tal Soffer & Anat Cohen, Tel Aviv University, Israel</i>	
Beyond Social Presence: Increasing Cognitive Presence through Meaningful Interaction	634
<i>Meiyi Song, University of Pittsburgh, United States; Rong Yuan, Defense Language Institute, United States</i>	
Extended TWIGy: A Graphical Authoring Tool for Creating an Interactive Individualized Tutor that Runs Over the Internet	640
<i>Rika Yoshii & Tawesak Jongsuksawas, California State University San Marcos, United States</i>	