



**ICWL 2012**

## Conference Program

The 11th International Conference  
on Web-based Learning  
2-4 September 2012, Sinaia, Romania



University of Craiova



Faculty of Automation,  
Computers and  
Electronics



Hong Kong Web Society



## Preface

ICWL is an annual international conference on Web-based learning, which started in Hong Kong in 2002. Since then, it has been held in Australia (2003), China (2004), Hong Kong (2005), Malaysia (2006), UK (2007), China (2008), Germany (2009), China (2010), and Hong Kong (2011). ICWL 2012, the 11th conference in the series, is organized by the University of Craiova, Romania, and is held in the Sinaia mountain resort.

The location chosen for this year is at high altitude, true to the spirit of a high-level conference. Sinaia, also known as the “Carpathian Pearl”, is situated in breathtaking mountain scenery, on the Prahova Valley. Blending astonishing natural beauty with picturesque architecture, Sinaia is a formal royal residence, home of the Peles Castle; this is one of the most well-preserved royal palaces in Europe, which served as the summer residence of the first king of Romania, Carol I.

In this rich cultural atmosphere, the conference aims at providing a discussion forum and social networking opportunity for academic researchers, developers, educationalists, and practitioners alike. Latest findings will be presented in the areas of: computer-supported collaborative learning; personal learning environments; Web 2.0 and social learning environments; personalized and adaptive learning; game-based learning; deployment, organization, and management of learning objects; semantic Web and ontologies for e-learning; intelligent learner modeling and learning analytics; design, modeling, and implementation of e-learning platforms and tools.

This year we received 105 submissions from 33 countries; while the majority of authors came from Europe, all other continents were represented, resulting in a remarkable international diversity. After a rigorous double-blind review process (in which each paper was reviewed by at least three members of the Program Committee), 28 papers were selected as full papers, yielding an acceptance rate of 26.6%. In addition, 10 more papers were selected as short papers. Moreover, three workshops are held in conjunction with ICWL 2012. The conference also features two distinguished keynote presentations as well as a panel.

We would like to thank the entire Organizing Committee for their efforts and time spent to ensure the success of the conference. Last but not least, we would like to thank all the authors of the submitted papers, whether accepted or not, for their contribution to maintaining a high-quality conference. We count on your continual support for playing a significant role in the Web-based learning community in the future.

September 2012

Elvira Popescu  
Qing Li  
Ralf Klamma  
Marcus Specht  
Howard Leung

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## Program Overview

<b>Sunday – September 2, 2012</b>	
09.00 – 09.40	Registration
09.40 – 10.15	Opening ceremony
10.15 – 11.15	Keynote 1
11.15 – 11.45	Coffee break
11.45 – 13.00	Session 1a, Session 1b
13.00 – 14.30	Lunch
14.30 – 16.15	Session 2a, Workshop SCiLearn
16.15 – 16.45	Coffee break
16.45 – 18.00	Session 3a, Session 3b
19.00 – 22.00	Reception dinner
<b>Monday – September 3, 2012</b>	
09.00 – 10.00	Keynote 2
10.00 – 11.15	Session 4a, Session 4b
11.15 – 11.35	Coffee break
11.35 – 13.10	Session 5a, Workshop KMEL 1
13.10 – 14.30	Lunch
14.30 – 16.10	Session 6a, Workshop KMEL 2
16.15 –	Departure for Bran Castle (optional tour 1), followed by conference banquet
<b>Tuesday – September 4, 2012</b>	
09.00 – 10.45	Session 7a, Workshop CCSTED 1
10.45 – 11.05	Coffee break
11.05 – 12.50	Session 8a, Workshop CCSTED 2 & Panel
12.50 – 13.10	Closing ceremony
13.10 – 14.30	Lunch
14.30 –	Departure for Peles Castle (optional tour 2)

## **Presentation Guidelines**

- Presentation time for keynote speeches will be 45 minutes plus 15 minutes for questions and discussion.
- Presentation time for full papers will be 20 minutes plus 5 minutes for questions.
- Presentation time for short papers will be 15 minutes plus 5 minutes for questions.
- Presentation time for workshop papers will be decided by the workshop organizers according to the available number of papers per workshop (recommended time: 15 minutes plus 5 minutes for questions)
- Conference rooms will be equipped with laptops and video projectors.  
**Please bring your presentation in PDF format on a USB stick.**

## **Conference Venue**

The conference will be hosted by Palace Hotel, Sinaia.

- Conference sessions will take place in George Enescu Hall (Room A) and Mircea Eliade Hall (Room B).
- Opening and closing ceremonies will take place in George Enescu Hall.
- Registration as well as coffee breaks will take place in the hotel lobby.
- Lunches as well as reception dinner will take place in the hotel restaurant.
- Conference banquet will take place at Portile Regatului Restaurant, located in Paraul Rece mountain resort (about 30 km away from Sinaia); bus transfer will be provided. Please note that this is a rustic place and the first part of the banquet will take place outside, so bring comfortable and somewhat warmer clothes.



## Keynote speech 1 – Sunday, September 2, 10.15 – 11.15, Room A

Title: Sharing Ideas by UI Sharing

Speaker: Yuanchun Shi

Chair: Qing Li

**Abstract.** In today's networked world, it is possible to create an atmosphere of community effort and sharing, which will significantly benefit collaborative topic study. Usually, people finish their own works on their personal computing devices and discuss together. When discussing, frequent exchange of ideas and documents occurs, and problems of inefficient device switching come out consequently. Even more, comparison among parts of work from different group members is lacking supporting technology. This talk will present UI (User Interface) Sharing technologies, which could help create a truly collaborative environment. In such scenario, a large display serves as a natural substrate for people to get together and perform their tasks simultaneously, which greatly promotes work efficiency in comparison with the single presenter style. Peripheral computing devices, such as laptops, mobile phones and tablet PCs, communicate with large displays (wall or tabletop) via wireless network. To deal with the differences in file types and platforms, only designated visual representation of the opened documents and software will be transferred to the large display. Participants can interact with the distributively archived digital content via shared UI on large displays. Related technologies will be discussed in this talk.



**Short bio.** Yuanchun Shi is a professor of the Department of Computer Science, the director of Institute of Human Computer Interaction & Media Integration of Tsinghua University, and the director of Pervasive Computing Division of Tsinghua National Lab of Information Science and Technology, China. Her research interests include human computer interaction, pervasive computing, multimedia communication and eLearning Technology. Prof. Shi has publications in IEEE Pervasive Computing, TPDS, TKDE, ACM CHI, MM, UIST, etc.

She received her PhD, MS and BS in Computer Science from Tsinghua University. She became a faculty member in Department of Computer Science of Tsinghua University in 1993. She was a senior visiting scholar at MIT AI lab during Aug 2001-Feb 2002. She had chaired several conferences like the ACM Ubicomp2011 and chaired the Technology Committee on Pervasive Computing of CCF (China Computer Federation) from Jun 2005-Jan 2012. Now she serves as the Area Editor of Pervasive and Mobile Computing (PMC, Elsevier), Editor of Interacting with Computer (IwC, Elsevier) and Vice Editor-in-Chief of Communications of CCF (CCCF).

## Keynote speech 2 – Monday, September 3, 09.00 – 10.00, Room A

Title: Informal Personalized eLearning across Open Content and Social Media Networks

Speaker: Vincent Wade

Chair: Elvira Popescu

**Abstract.** Dynamic Personalisation of online learning initially focused on adaptive retrieval and navigation across specially maintained (closed corpus) content. By dynamically adjusting the content to the appropriate level of prior knowledge and goals of the individual learner, more effective and stimulating learning experiences could be achieved. Benefits such as increased learner motivation, learner satisfaction and enhanced knowledge gain by the learner have been demonstrated using such systems. However the cost development of content suitable for such systems is very high, and such an approach does not leverage neither the vast amount of learning content openly available on the web nor the rich social media contributions across social networks. However, recent advancements in personalization technology is breaking out of the closed corpus content and seeking to exploit the benefits of personalization across both openly available web content and social media. These approaches involve dynamic recomposition and navigation across ordinary (open) web content and social media content. Such approaches involve dynamic personalised search and media recomposition performed at runtime to suit the individual's needed. Such personalization does not rely on existing curricula and can thus support informal, ad hoc learning needs. This keynote presentation will outline how such technology can support informal open learning, the generation of personalised learning activities as well as the integration & leveraging of social media resources and collaboration. It will also identify the ongoing challenges in achieving personalization across such heterogeneous web and social media.



**Short bio.** Vincent Wade (BSc (hons), MSc, MA., PhD, FTCD) is Professor and Head of Intelligent Systems in the School of Computer Science and Statistics, in Trinity College Dublin (TCD) University, Ireland. He is Deputy Director of CNGL, a world leading multi-institutional research centre focusing on multilingual, multi modal globalisation of digital content. In 2012 he founded the Centre for Learning Innovation which is an applied research centre focused on Informal Learning technologies. In 2002 Vincent was awarded Fellowship of

Trinity College (FTCD) for his contribution to research in the areas of knowledge management, web based personalisation and adaptive learning technologies. Vincent was a visiting scientist at IBM (2006-9) and holds multiple patents in the area of personalisation and adaptive digital content. He has authored over two hundred and fifty scientific papers in peer reviewed research journals and international conferences and he has received seven 'best paper' awards in IEEE, ACM, and IFIP conferences. In 2010 he received the European Language Label Award for his work on dynamic personalisation of Serious Games for enhanced learning.

### **Session 1a - Sunday, September 2, 11.45 – 13.00, Room A**

Title: Semantic Web and Ontologies for E-learning

Chair: Élise Lavoué

- Discovering Hierarchical Relationships in Educational Content  
*Marián Šimko, Maria Bielikova*
- An Evaluation Methodology for C-FOAM Applied to Web-based Learning  
*Ioana Ciuciu, Yan Tang Demey*
- Modelling the Knowledge Domain of the Java Programming Language as an Ontology (Short Paper)  
*Aggeliki Kouneli, Georgia Solomou, Christos Pierrakeas, Achilles Kameas*

### **Session 1b - Sunday, September 2, 11.45 – 13.00, Room B**

Title: Learning Analytics

Chair: Yiwei Cao

- Learning Analytics for Learning Blogospheres  
*Manh Cuong Pham, Michael Derntl, Yiwei Cao, Ralf Klamma*
- Towards an Integrated Approach for Evaluating Textual Complexity for Learning Purposes  
*Mihai Dascalu, Stefan Trausan-Matu, Philippe Dessus*
- How about Using the PCA to Analyze Changes in Learning Styles? (Short Paper)  
*Federico Scaccia, Carlo Giovannella*

### **Session 2a - Sunday, September 2, 14.30 – 16.15, Room A**

Title: Personalized and Adaptive Learning

Chair: Sabine Graf

- AMASE: A Framework for Composing Adaptive and Personalized Learning Activities on the Web  
*Athanasios Staikopoulos, Ian O'Keeffe, Rachael Rafter, Eddie Walsh, Bilal Yousef, Owen Conlan, Vincent Wade*
- Learning Activity Sharing and Individualized Recommendation Based on Dynamical Correlation Discovery (Short Paper)  
*Xiaokang Zhou, Jian Chen, Qun Jin, Timothy K. Shih*
- Designer - Supporting Teachers Experience in Learning Management Systems (Short Paper)  
*Silvia Baldiris, Sabine Graf, Jorge Hernandez, Ramon Fabregat, Nestor Duque*

- RECALL – Location Based Services for Excluded Communities (Short Paper)  
*Camelia Popescu, David Brown, Nick Shopland*
- Broadening the Use of E-learning Standards for Adaptive Learning (Short Paper)  
*Anna Mavroudi, Thanasis Hadzilacos*

### **Session 3a - Sunday, September 2, 16.45 – 18.00, Room A**

Title: CSCL, Web 2.0 and Social Learning Environments 1

Chair: Zuzana Kubincova

- An Approach to Exploit Social Bookmarking to Improve Formal Language Learning  
*Giuliana Dettori, Simone Torsani*
- How to Get Around with Wikis in Teaching  
*Zuzana Kubincová, Martin Homola*
- Wiki - A Useful Tool to Fight Classroom Cheating?  
*Zoran Putnik, Mirjana Ivanović, Zoran Budimac, Ladislav Samuelis*

### **Session 3b - Sunday, September 2, 16.45 – 18.00, Room B**

Title: Deployment, Organization and Management of Learning Objects

Chair: Stefan Trausan-Matu

- Slicepedia: Towards Long Tail Resource Production through Open Corpus Reuse  
*Killian Levacher, Seamus Lawless, Vincent Wade*
- Learning Path Construction based on Association Link Network  
*Fan Yang, Frederick Li, Rynson Lau*
- An Automated Analysis and Indexing Framework for Lecture Video Portal  
*Haojin Yang, Christoph Oehlke, Christoph Meinel*

### **Session 4a - Monday, September 3, 10.00 – 11.15, Room A**

Title: Game-Based Learning

Chair: Ralf Klamma

- Towards Universal Game Development in Education: Automatic and Semiautomatic Methodologies  
*Javier Torrente, Ángel Del Blanco, Ángel Serrano-Laguna, Jose Angel Vallejo-Pinto, Pablo Moreno-Ger, Baltasar Fernandez-Manjon*
- Towards Social Learning Games  
*Elise Lavoué*

- Computer Games and English Language Learning  
*Sabina-Nadina Cehan, Dana-Anca Cehan*

**Session 4b - Monday, September 3, 10.00 – 11.15, Room B**

Title: Feedback and Assessment

Chair: Marco Temperini

- BlueFix: Using Crowd-Sourced Feedback to Support Programming Students in Error Diagnosis and Repair  
*Christopher Watson, Frederick W.B. Li, Jamie L. Godwin*
- Dealing with Open-Answer Questions in a Peer-Assessment Environment  
*Andrea Sterbini, Marco Temperini*
- Slide Test Maker: An Educational Software Tool for Test Composition  
*Salvatore Cuomo, Vittorio Fuccella, Aniello Murano*

**Session 5a - Monday, September 3, 11.35 – 13.10, Room A**

Title: CSCL, Web 2.0 and Social Learning Environments 2

Chair: Giuliana Dettori

- Annotation Tool for Enhancing E-Learning Courses  
*Bernardo Pereira Nunes, Ricardo Kawase, Stefan Dietze, Gilda Helena Bernardino De Campos, Wolfgang Nejd*
- Project-Based Learning with eMUSE - An Experience Report  
*Elvira Popescu*
- Perceived Support in E-Collaborative Learning - An Exploratory Study Which Makes Use of Synchronous and Asynchronous Online-Teaching Approaches  
*Stefanie A. Hillen, Tero Pääväranta*
- Teaching Culture as Social Constructivism (Short paper)  
*Cat Kutay, Deirdre Howard-Wagner, Lynette Riley, Janet Mooney*

**Session 6a - Monday, September 3, 14.30 – 16.10, Room A**

Title: Personal Learning Environments

Chair: Marcus Specht

- From LMS to PLE: a Step Forward through OpenSocial Apps in Moodle  
*Evgeny Bogdanov, Carsten Ullrich, Erik Isaksson, Matthias Palmer, Denis Gillet*
- A Mashup Recommender for Creating Personal Learning Environments  
*Alexander Nussbaumer, Marcel Berthold, Daniel Dahrendorf, Hans-Christian Schmitz, Milos Kravcik, Dietrich Albert*

- A Federated Recommender System for Online Learning Environments  
*Lei Zhou, Sandy El Helou, Laurent Moccozet, Laurent Opprecht, Omar Benkacem, Christophe Salzmann, Denis Gillet*
- Trust and Security Issues in Cloud-Based Learning and Management  
*Birgy Lorenz, Kätlin Kalde, Kaido Kikkas*

### **Session 7a - Tuesday, September 4, 09.00 – 10.35, Room A**

Title: Design, Model and Implementation of e-Learning Platforms and Tools

Chair: Mart Laanpere

- Towards a Design Theory for Educational Online Information Security Laboratories  
*Sarfraz Iqbal, Tero Päivärinta*
- Pedagogy-driven Design of Digital Learning Ecosystems: the Case Study of Dippler  
*Mart Laanpere, Kai Pata, Peeter Normak, Hans Põldoja*
- The Use of Expert Systems in Building the Quality Model of a Web-based Learning Platform  
*Traian-Lucian Militaru, George Suciu, Gyorgy Todoran*
- A Prototypical Implementation of the Intelligent Integrated Computer-Assisted Language Learning (iiCALL) Environment (Short Paper)  
*Harald Wahl, Werner Winiwarter*

### **Session 8a - Tuesday, September 4, 11.05 – 12.10, Room A**

Title: Pedagogical Issues, Practice and Experience Sharing

Chair: Philippos Pouyioutas

- E-learning - The Bologna Process, the European Credit Transfer System (ECTS), Learning Outcomes and ReProTool  
*Philippos Pouyioutas, Harald Gjermundrod, Ioanna Dionysiou*
- The Implementation of the E-Learning Systems in Higher Education. Sharing the Work Experience from Petroleum-Gas University of Ploiesti (Short Paper)  
*Gabriela Moise, Mihaela Suditu, Loredana Netedu*
- Enhancing Online Class Student Engagement through Discussion - A Case Study on Modern Educational Technology (Short Paper)  
*Fengfang Shu, Chengling Zhao, Liyong Wan*

## SCiLearn 2012

### International Workshop on Learning within and from Smart Cities

**Sunday, September 2, 14.30-16.15, Room B**

Chair: Carlo Giovannella

- Scenarios for Active Learning in Smart Territories  
*Carlo Giovannella, Andrea Iosue, Antonello Tancredi, Fabrizio Cicola, Andrea Camusi, Fabrizia Moggio, Vincenzo Baraniello, Simone Carcone, Silvio Coco*
- Understanding Trajectories of Experience in Situated Learning Field Trips  
*Ilaria Canova Calori, Chiara Rossitto, Monica Divitini*
- Learning in the Smart City: a Virtual and Augmented Museum Devoted to Chaos Theory  
*Francesca Bertacchini, Eleonora Bilotta, Manuela Carini, Lorella Gabriele, Giuseppe Laria, Pietro Pantano, Assunta Tavernise, Stefano Vena*
- Contextual Mobile Learning for Professionals Working in the “Smart City”  
*Bingxue Zhang, Bertrand David, Chuantao Yin, René Chalon, Yun Zhou*

**KMEL 2012**  
**2nd International Symposium on Knowledge Management  
and E-Learning**

**Monday, September 3, Room B**

Chair: Frederick Li

**Session 1: 11.35 – 13.10**

- A Web Content Accessibility Evaluation Process for Learning Objects in the Context of a Virtual Learning Environment  
*Cecilia Avila Garzon, Silvia Margarita Baldiris Navarro, Ramon Fabregat, Juan Carlos Guevara*
- Virtual Laboratory for the Study of Kinematics in Engineering Faculties  
*Andrei Craifaleanu, Cristian Dragomirescu, Iolanda-Gabriela Craifaleanu*
- Effect of Multiplayer Interactive Violent Video Games on Players' Explicit and Implicit Aggression: A Social Interaction Perspective  
*Chang Liu, Xuemin Zhang, Fawei Sun, Lang Lang Wang, Xinyuan Fu*
- Quality Criteria for Open Courseware and Open Educational Resources  
*Monica Vladoiu*

**Session 2: 14.30 – 16.10**

- Developing Online Collaborative Games for e-Learning Environments  
*Traian Anghel, Adrian Florea, Arpad Gellert, Delilah Florea*
- Supporting Knowledge Transfer and Mentoring in Companies by E-Learning and Cloud Computing  
*Ileana Hamburg, Marius Marian*
- Wiki Tools in Teaching English for Specific (Academic) Purposes - Improving Students' Participation  
*Cristina Felea, Liana Stanca*
- Ad-Hoc Business Process Management in ECM Systems  
*Kristina Evina, Alexander Gromoff, Yulia Stavenko*



## CCSTED 2012

### 1st International Workshop on Creative Collaboration through Supportive Technologies in Education

**Tuesday, September 4, Room B**

#### **Session 1: 09.00 – 10.45**

Chairs: David Lamas & Margarida Romero

- Welcome message  
*Gabriel Gorghiu, Tommi Inkilä*
- Collaborative Processes in Virtual Learning Spaces - Does Structuring Make a Difference?  
*Essi Vuopala, Sarah Eagle, Pirkko Hyvönen*
- Supporting Collaborative Creativity with Educational Visualizations in 3D Virtual Worlds  
*Mikhail Fominykh, Monica Divitini, Ekaterina Prasolova-Førland*
- Towards Increasing Learners' Creativity Based on a Fuzzy Collaborative Learning Model  
*Gabriela Moise*
- Creative Re-instrumentation of Collective Learning Activity  
*Terje Väljataga, Sebastian Fiedler*
- Towards Assessing Quality of Open Courseware  
*Monica Vlădoiu*
- The Development of a Scale to Assess Creative Collaboration via Online Tools  
*Jocelyn Wishart, Sarah Eagle*

#### **Session 2: 11.05 – 12.05**

Chairs: Gabriel Gorghiu & Tommi Inkilä

- Computer-Based Creative Collaboration in Online Learning  
*Margarida Romero, Elena Barberà*
- Trust as Leverage for Supporting Learning Creativity in On-line Learning Communities  
*Sonia Sousa, David Lamas, Kersti Toming*
- Exploring Creativity with E-learning 2.0: a Personal Account  
*Kersti Toming, David Lamas*

- A Student Perception Related to the Implementation of Virtual Courses  
*Andrei Chilian, Roxana Băncuță, Cristina Băncuță*

**Panel: 12.05 – 12.50**

**Technology in Support of Collaborative Learning - Challenges and Perspectives**

Chair: Gabriel Gorghiu

The Workshop is organized with the support of European Commission, Education and Training, under LLP Transversal Programme KA3-ICT, through Project 511733-LLP-1-2010-1-FI-KA3-KA3MP: "CoCreat - Enabling Creative Collaboration through Supportive Technologies"



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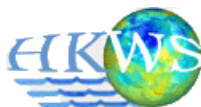


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