

# ICWL 2016

15<sup>th</sup> International Conference on Web-based Learning

# SETE 2016

1<sup>st</sup> International Symposium on Emerging Technologies for Education

Rome, Italy, October 26-29, 2016



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# Welcome to ICWL and SETE 2016!

This is the conference program for the 15<sup>th</sup> edition of the annual International Conference on Web-based Learning (ICWL), and for the 1<sup>st</sup> International Symposium on Emerging Technologies for Education (SETE).

The first time for ICWL was in Hong Kong in 2002. Since then it has been held 13 more times, in several countries of three continents of Planet Earth: Australia (2003), China (2004, 2008, 2010), Hong Kong (2005, 2011, 2015), Malaysia (2006), UK (2007), Germany (2009), Romania (2012), Taiwan (2013), Estonia (2014).

This year, the companion Symposium SETE has its first issue, hoping to open the way towards a bright future.

ICWL2016 and SETE2016 are held in Rome, Italy. One trait of (ancient) Romans is that they were able to learn from their "interactions" with other countries and make their common civilization better. In ICWL and SETE we mean the word "interactions" in a more peaceful way, yet with the same aim, of making our community's insights and innovative ideas about Technology Enhanced Learning better.

The two co-located events are organized by the Sapienza University of Rome, and by the National Cheng-Kung University, Taiwan, with the support of the Hong Kong Web Society.

The University Sapienza also took care of the local organization. Sapienza is the largest European university in terms of enrolments (the third one if distance-learning schools are also considered) and one of the oldest in the world, founded in 1303. Sapienza educated numerous notable alumni, including many Nobel laureates, presidents of the European Parliament, heads of several nations, notable religious figures, scientists, and astronauts!

In these events we are featuring three distinguished keynote presentations, by renowned scholars: you see information on this in the following pages. Don't miss our keynotes!

And don't miss the presentation we have from the ERC research program officer Iliana Nikolova, about the European Research Council (ERC), and the funding opportunities it offers anywhere in the abovementioned planet.

A characterizing and successful trait of ICWL has been in recent years the presence of several Workshops, allowing the attendees to keep in touch with new and hot topics on Technology Enhanced Learning. This year the workshops have been successfully organized within the frame of the SETE Symposium, and integrated in its proceedings.

Moreover, this year a Doctoral Consortium has been organized in ICWL, providing an opportunity for PhD students to discuss their work with experienced researchers.

Many people contributed to make the conference and the symposium possible and successful: in the next pages you see the lists of members of the ICWL and SETE Organizing Committees; in the rest of the program you will also have a chance to see the Organizing Committees of the several Workshops that enriched our overall experience in Rome.

To everybody goes a common big Thank You.

Another Thank You goes to the ICWL sponsors, for their enlightened financial support, which helped make the whole operation sustainable: IAD, Solutions by Competence; Springer, who surprised us by offering their sponsorship; and UniTelma-Sapienza University.

We wish the attendees a pleasant and fruitful experience in Rome.

October 2016

*ICWL Conference co-Chairs:*

Marc Spaniol,  
Marco Temperini

*SETE Symposium co-Chairs:*

Rosella Gennari,  
Ray Yueh-Min Huang

*ICWL Program co-Chairs:*

Dickson K.W. Chiu,  
Ivana Marenzi,  
Umberto Nanni

*SETE Program and Workshops co-Chairs:*

Yiwei Cao,  
Ting-Ting Wu,  
Haoran Xie

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Marco Temperini, Sapienza University, Rome, Italy

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# SETE2016

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Yunhui Zhuang, City University of Hong Kong, Hong Kong  
Zhenguo Yang, City University of Hong Kong, Hong Kong

## **Keynote 1: Oct. 26th 14:30-15:25, Sala Baracca**

Carlo Giovannella, Tor Vergata University, Rome, Italy

### **Uncovering and Supporting the Smartness of Learning Ecosystems**

Becoming smart, or smarter, is for an ecosystem, like for the human, a goal to reach and, as for the human, a goal with a multidimensional nature. Uncovering the relevant dimensions of socio-technical ecosystems like the learning ones is the first step to support their way toward the achievement of the smartness: should it be done top-down or bottom-up ? Once the frameworks has been identified next question is: how technologies could support the learning ecosystems to get smarter ? Learning ecosystems do not operate in isolation: how they could interact with and influence the surroundings? Hints to stimulate reflections and foster actions will be provided.

#### **Short bio**

Graduated in Physics and expert of complex systems. Nowadays 'Designer for the experience', expert in the technology-enhanced learning, interaction design, computer-mediated communication, design and innovation of processes and products. Since 2013 is the Scientific Director of the Creative Industries Area at the Consorzio Roma Ricerche, since 2015 is the President of ASLERD (Association for Smart Learning Ecosystems and Regional Development - [www.aslerd.org](http://www.aslerd.org)) He is member of the Dept. of History, Cultural Heritage, Education & Society of the University of Rome Tor Vergata, where he is chairing the ISIM\_garage (Interfaces and Multimodal Interactive Systems), a research lab devoted to the design and development of TEL-environments, tools and methods for education, interaction design, and more. In his career he has published more than 200 papers and has been editor of several books and special issues. He is currently Scientific Editor of the journal IxD&A and Managing Editor of IJDLDC.

## **Keynote 2: Oct. 27th 9:00-9:55, Sala Baracca**

Peter Brusilovsky, University of Pittsburgh, USA

### **Data-Driven Education:**

#### **Using Learners' Data to Improve Teaching and Learning**

Modern educational settings, both in classrooms and MOOCs, produce a rapidly increasing volume of data that captures the learning progress of millions of students at different levels of granularity. This data opens a unique opportunity to re-engineer traditional education and develop a range of efficient data-driven education approaches. In this talk, I will review a stream of research on data-driven education and present some ways to leverage learner's data as explored in the PAWS lab. Among other approaches, I present our work on open social student modeling and the problem-solving genome - identifying reliable individual differences through sequential pattern mining.

### **Short bio**

Peter Brusilovsky is a Professor of Information Science and Intelligent Systems at the University of Pittsburgh, where he directs the Personalized Adaptive Web Systems (PAWS) lab. Peter has been working in the field of adaptive educational systems, user modeling, and intelligent user interfaces for more than 25 years. He published numerous papers and edited several books on adaptive hypermedia, adaptive educational systems, user modeling, and the adaptive Web. Peter is the Editor-in-Chief of IEEE Transactions on Learning Technologies and a board member of several journals including User Modeling and User Adapted Interaction, and ACM Transactions on Social Computing.

## **Keynote 3: Oct. 28th 9:00-9:55, Sala Baracca**

Andreja Istenič Starčič, University of Ljubljana, University of Primorska, Macquarie University

### **Representations in Contemporary Learning Environments**

The affordance of pervasive mobile technology enables ubiquitous learning. Device characteristics make a significant contribution to engaging users any time, any place, providing multisensory applications, hyperconnectivity and a new sense of place. Learning application design affords the use of digital media formats such as text, graphics, audio and video so that the symbolic, static and dynamic representations of problems and other learning activities might be presented in a variety of ways. The exploration of various combinations of different media for effective learning has been the focus of several studies in authentic contexts and using authentic activities. The representation and communication of meanings is multimodal, and multimodal design that incorporates different representational resources for meaning making has become integrated across curricula within various subjects. Moving from written culture to digital culture, the dynamic interactive multimodal representations and the multisensory application of tablet computers support knowledge development by multiple representations which in turn supports students' expression and facilitate engagement. The transition between concrete, visual and abstract level of representations in contemporary learning environments will be discussed.

#### **Short bio**

Professor Andreja Istenic Starcic, PhD is working at University of Primorska Faculty of Education and University of Ljubljana Faculty of Civil and Geodetic Engineering Slovenia and is Honorary fellow at Macquarie University Sydney Australia. Andreja is a Vice dean for international collaboration at Faculty of Education University of Primorska. Her research and teaching involve Educational technology, Learning environments, ICT assisted learning for people with special needs, Media education, Contemporary learning theories, Innovation and creative production of multimedia contents. Andreja was invited speaker at international conferences and have invited chapters in books. She published over 80 articles. Andreja is editor of British Journal of Educational Technology - BJET and International journal of emerging technologies in learning - iJET. Andreja received awards: Slovenian research agency – The exceptional research achievement in social science in Slovenia for the year 2012; The Award of University of Primorska for scientific excellence in social sciences and humanities for the year 2014. Personal website: <http://andreja-istenic-starcic.eu/> E-mail: [andreja.starcic@gmail.com](mailto:andreja.starcic@gmail.com).

# ICWL and SETE 2016, at a glance

NB Plenary sessions are in Sala BARACCA.

## Oct. 26, 2016

<b>08:30 - 16:30 Registration</b>			
	<b>Sala BARACCA</b>	<b>Sala GIOCO</b>	<b>Sala DOUHET</b>
09:00 - 10:40	<b>SETE-1</b>	<b>SPeL-1</b>	<b>ETLL-1</b>
10:40	<i>Coffee Break</i>		
11:05 - 12:45		<b>SPeL-2</b>	<b>ETLL-2</b>
12:50 - 14:10	<i>Lunch</i>		
14:10 - 14:30	Opening (Plenary)		
14:30 - 15:25	Keynote 1 (Plenary) Carlo Giovannella, Tor Vergata University, Rome, Italy <i>Uncovering and supporting the smartness of learning ecosystems</i>		
15:30 - 16:50	<b>ICWL-1</b>	<b>SETE-2</b>	<b>SETE-3</b>
16:50	<i>Coffee Break</i>		
17:10 - 17:55	Invited Presentation (Plenary) Iliana Nikolova, European Research Council Executive Agency <i>The European Research Council (ERC): Funding Opportunities in Europe for Creative Minds from Anywhere in the World.</i>		
19:15 - 21:15	<i>Welcome Reception</i>		

## Oct. 27, 2016

**POSTER SESSION: Registration/Coffee\_Break Area, 14:25 – 16:25.**

<b>08:30 - 13:00 Registration</b>			
09:30 - 09:55	Keynote 2 (Plenary) Peter Brusilovsky, University of Pittsburgh, PA, USA <i>Data-Driven Education: Using Learners' Data to Improve Teaching and Learning</i>		
09:55	<i>Coffee Break</i>		
	<b>Sala BARACCA</b>	<b>Sala GIOCO</b>	<b>Sala DOUHET</b>
10:15 - 11:55	<b>ICWL-2</b>	<b>SETE-4</b>	<b>TELL-1</b>
12:00 - 13:00	<b>SETE-5</b>	<b>PRASAE-1</b>	
13:00 - 14:20	<i>Lunch</i>		
14:25 - 16:05	<b>ICWL-3</b>	<b>PRASAE-2</b>	<b>TELL-2</b>
16:05	<i>Coffee Break</i>		
16:25 - 17:45	<b>ICWL-4</b>	<b>AICTACE</b>	
19:00	<i>Leaving for Tour, and Social Dinner</i>		

NB Plenary sessions are in Sala BARACCA.

## Oct. 28, 2016

### POSTER SESSION: Registration/Coffee\_Break Area, 12:00 – 13:00.

	<b>Keynote 3 (Plenary)</b> Andreja Istenic Starcic, University of Primorska, Slovenia <i>Representations in contemporary learning environments</i>		
09:30 - 09:55			
09:55	<i>Coffee Break</i>		
	<b>Sala BARACCA</b>	<b>Sala GIOCO</b>	<b>Sala DOUHET</b>
10:15 - 11:55	<b>SETE-6</b>	<b>Doctoral Consortium</b>	
12:00 - 13:00	<b>SETE-7</b>	<b>Doctoral Consortium</b>	
13:00 - 14:20	<i>Lunch</i>		
14:25 - 16:05	<b>ICWL-5</b>	<b>IWUM-1</b>	
16:05	<i>Coffee Break</i>		
16:25 - 17:45	<b>ICWL-6</b>	<b>IWUM-2</b>	
20:00	<i>Optional Tour: Foro di Cesare</i>		

## Oct. 29, 2016

	<b>Sala BARACCA</b>	<b>Sala GIOCO</b>	<b>Sala DOUHET</b>
9:00 - 10:20	<b>ICWL-7</b>	<b>OALTA-1</b>	<b>AADI-1</b>
10:20	<i>Coffee Break</i>		
10:40 - 12:00	<b>SETE-8</b>	<b>OALTA-2</b>	<b>AADI-2</b>
12:05	Closing (Plenary)		
12:30 - 13:20	<i>Lunch</i>		

## In the Venue

Registration and Coffee Break Hall: First Floor

Conference Rooms: Sala Baracca, Sala Gioco, Sala Douhet: First Floor

Lunch: Restaurant Rooms (indications will be in place)

Welcome Reception: Restaurant Rooms (indications will be in place)

## Presentation guidelines ...

- Presenting authors will gather in their session room at least five minutes before of the session start, and make contact with the chairman.
  - The presentation rooms (Sala Baracca, Sala Giochi, Sala Douhet) will be equipped with video projectors, and with laptops with Office 2016.
  - It is advisable to have also a pdf version of the slide presentation available.
- Presentation time for keynote speakers: 45 min. with 10 min. for the questions
- Presentation time for Special Invited Presentation: 30-35 min. with 15-10 min for questions
- Presentation time for session papers: in principle the chairman can decide how to distribute the time among the papers, however the presentations should be of a uniform length, and there should be room for some questions after each presentation; the chairmen can consider the following suggestions:
  - a full paper could be presented in 17 min. with 3 min for the questions
  - a short paper could be presented in 15 min. with 2 min for the questions
- Presentation time for the poster papers: the poster paper presentations are concentrated in one slot of the session ICWL-2. Each presentation will span at most 5 minutes. In principle, since there is, later, a traditional poster session, questions could be postponed therein.
- Presentation time for the Doctoral Consortium proposals: each slot spans 33 minutes, so a presentation should last 25 minutes, in order to leave space for questions.



## Paper Sessions – ICWL

**ICWL-1, Assessment, Sala Baracca, Oct 26, 2016 [15:30 - 16:50]**

**Chair: Marco Temperini**

Title	Authors
Understanding learners' behaviors in learning games	Mathieu Muratet, Amel Yessad and Thibault Carron
Design Patterns for Badge Systems in Higher Education	Hans Põldoja, Pirje Jürgens and Mart Laanpere
Formative and adaptive feedback using limited contextual information and incremental user models <i>(Short)</i>	Sviatlana Höhn and Eric Ras
Understandable Prediction Models of Student Performance Using an Attribute Dictionary	Shaymaa E. Sorour, Shaimaa Abd El Rahman, Samir A. Kahouf and Tsunenori Mine

**ICWL-2, Support for Learning, Sala Baracca, Oct 27, 2016 [10:15 - 11:55] – Chair: Marc Spaniol**

Title	Authors
<b>Poster Papers Short Presentations</b>	
ICWL-2, Towards e-Assessment Models in Engineering Education: Problems and Solutions. Malinka Ivanova, Anna Rozeva and Mariana Durcheva	
ICWL-77, Factors influencing the sustainability of MOOCs compared with traditional Distance Education Courses. Thorleif Hjeltnes and Svend Andreas Horgen	
ICWL-19, Interacting with Technology to Interact Physically: Investigating Affordances of Tabletops within a Collaborative learning environment. Preben Hansen, Fernando Loizides and Andri Ioannou	
ICWL-82, Discovering Didactic Relationships among Learning Units: a Coursera-Driven Approach. Carlo De Medio, Fabio Gasparetti, Carla Limongelli, Matteo Lombardi, A. Marani, F. Sciarrone and M. Temperini	
Domain-Specific Recommendation by Matching Real Authors to Social Media Users <i>(Short)</i>	Jun Wang, Junfu Xiang and Kanji Uchino
Delivering Immersive Learning Experience for Massive Open Online Courses (MOOCs) <i>(Short)</i>	Horace H S Ip, Chen Li, Joe Y W Wong, Selena Leoni, Ka Fai Ma, Hoi To Wong and Sin Hang Sham
EduNotes - a mobile learning application for collaborative note-taking in lecture settings	Elvira Popescu, Constantin Stefan, Sorin Ilie and Mirjana Ivanovic
Protus 2.1: Applying Collaborative Tagging for Providing Recommendation in Programming Tutoring System	Boban Vesin, Aleksandra Klačnja-Milicevic and Mirjana Ivanovic

**ICWL-3, Design and Modeling, Sala Baracca, Oct 27, 2016 [14:25 - 16:05]**

**Chair: Ralf Klamma**

Title	Authors
Implementing Knowledge and Workflow Management in Learning Management Systems <i>(Short)</i>	Aneta Bartuskova and Ondrej Krejcar
MDA approach for reusability in serious game and e-learning design <i>(Short)</i>	Nada Aouadi, Philippe Pernelle, Chokri Ben Amar and Thibault Carron
Scenario modeling for serious games : an approach for industry sector	Hamza Abed, Philippe Pernelle, Thibault Carron and Chokri Ben Amar
A Review, Timeline, and Categorization of Learning Design Tools	Dilek Celik and George Magoulas
Approaches to Design for Learning <i>(Short)</i>	Dilek Celik and George Magoulas

**ICWL-4, Language and Learning Ecosystem, Sala Baracca, Oct 27, 2016 [16:25 - 17:45]**

**Chair: Umberto Nanni**

Title	Authors
Web Frameworks for Content and Language Integrated Learning in Primary School	Luca Andrea Ludovico and Claudia Zambelli
Towards mobile assisted language learning based on Computational Thinking	Ilenia Fronza and Daniel Gallo
Digital Divide in Learning Services in Ghana's Basic School <i>(Short)</i>	James Sunney Quaicoe and Kai Pata
Technology investment and transformation efforts in the public schools of Georgia	Eka Jeladze and Kai Pata

**ICWL-5, Support and Learning Ecosystem, Sala Baracca, Oct 28, 2016 [14:25 - 16:05]**

**Chair: Kai Pata**

Title	Authors
Assessment for Learning as a Teaching Approach Enabling Personalization of Learning on Tertiary Level	Dagmar El-Hmoudova and Eva Milkova
A Framework for Mapping E-Textbook as a Socio-Technical Regime	Kai Pata and Terje Väljataga
Using Personal Learning Environments to Support Workplace Learning in Small Companies	Milos Kravcik, Kateryna Neulinger and Ralf Klamma
Supporting the acquisition of scientific skills Through Learning Analytics	Daniel Jose Salas Alvarez, Silvia Margarita Baldiris Navarro, Ramón Fabregat and Sabine Graf
Pen&Paper, or e-Feedback: Comparative study	Ivana Simonova

**ICWL-6, Language, Sala Baracca, Oct 28, 2016 [16:25 - 17:45]**

**Chair: Martin Homola**

Title	Authors
MyEnglishLab component used in the distant part of blended learning	Danuse Vymetalkova and Eva Milkova
Facebook Groups in Teaching English for Specific (Academic) Purposes - Active Learning Beyond the Classroom ( <i>Short</i> )	Liana Stanca and Cristina Felea
What are the dimensions of language learning with MOOCs for English learners? ( <i>Short</i> )	Yayoi Anzai and Kanji Akahori
Learning Medical English Terminology through Mobile Devices: A Two-year Trial to Develop Mobile Learning Content for Japanese Medical Students ( <i>Short</i> )	Jun Iwata, John Telloyan and Lynne Murphy

**ICWL-7, Social Collaborative Learning and MOOCs, Sala Baracca, Oct 29, 2016 [9:00 - 10:20]**

**Chair: Zuzana Kubincová**

Title	Authors
A Multiple Constraints Framework for Collaborative Learning Flow Orchestration	Kalpani Manathunga and Davinia Hernández-Leo
Modeling skills in a learner-centred approach within MOOCs	Wiem Maalej, Philippe Pernelle, Chokri Ben Amar, Thibault Carron and Elodie Kredens
Complex resources in MOOCs: structural and behavioral integration approach	Sahar Msaed, Philippe Pernelle, Chokri Ben Amar and Thibault Carron

## Paper Sessions – SETE

**SETE-1, Track: Emerging Technologies Support for Game-based and Joyful Learning, Sala Baracca, Oct 26 [09:00 - 10:40]**

**Chair: Toru FUJIMOTO**

Title	Authors
The Analysis of Incidental Learning in the Affinity Spaces of a Smartphone Game “Neko Atsume”	Toru FUJIMOTO and Christopher Michael YAP
Exploring the factors that influence the intention to play a color mixing game	Yong-Ming Huang, Chia-Sui Wang, Tien-Chi Huang and Chia-Chen Chen
Imitating a Hot Puzzle Game for English Vocabulary Exercise in E-book System	Tien-Wen Sung and Ting-Ting Wu
Coding, the new literacy: Thinking-oriented programing learning e-book	Tien-Chi Huang, Vera Yu Shu, Chia-Chen Chen and Yu-Lin Jeng
Exploration on the Effectiveness of Learning, Interest, and Attitude of the Integration of Review System of History Based on Mobile Game and Forgetting Curve	Chih-Wei Chao, Lei-Chang, An-Chi Cheng and Ting-Ting Wu

**SETE-2, Track: Emerging Technologies of Design, Model and Framework of Learning Systems, Sala Gioco, Oct 26 [15:30 - 16:50]**

**Chair: Chi-Cheng Chang**

Title	Authors
Using e-Portfolios for Reflection to Facilitate Self-Regulated Learning in Computer Application Course	Chi-Cheng Chang and Chun-Yu Lin
The Effect of 635 Brainstorming on the Creativity of Programming Design	Tzone-I Wang and Po-Ching Chang
Exploring the Development of Engineering Design in an Integrative Robotic STEM Program	Yu-Kai Chen and Chi-Cheng Chang
Increasing the Learning Performance via Augmented Reality Technology-A Case Study of Digital Image Processing Course	Chin-Lun Lai and Yu-Fang Chu

**SETE-3, Track: Emerging Technologies of Design, Model and Framework of Learning Systems, Sala Douhet, Oct 26 [15:30 - 16:50]**

**Chair: Ting-Ting Wu**

Title	Authors
A Conceptual Framework over Contextual Analysis of Concept Learning within Human-Machine Interplays	Farshad Badie
An Intelligent Concept Map for e-book via Automatic Keyword Extraction	Chin-Feng Lai, Chun-Wei Tsai, Shih-Yeh Chen, Ren-Hung Hwang and Chu-Sing Yang
Using Mindtool-based Collaborative Learning Approach for Higher Education to Support Concept Map Construction	Chia-Chen Chen, Yueh-Min Huang, Pei-Hsuan Lin, Yu-Lin Jeng, Yong-Ming Huang and Mu-Yen Chen
Construction of Efficient Cloud-based Digital Course Learning Platform for Agricultural Worker	Jui-Hung Chang, Chien-Yuan Tseng and Ren-Hung Hwang

**SETE-4, Track: Emerging Technologies Supported Personalized and Adaptive Learning, Sala Gioco, Oct 27 [10:15 - 11:55]**

**Chair: Claus Pahl**

Title	Authors
Change Support to Maintain Quality in Learning Technology Systems	Claus Pahl
Smart, Innovative Teaching Supported by Decision Software – Case Study in Educational Institution	Hana Mohelska, Marcela Sokolova and Vaclav Zubr
An Integrated Model to Assess Blogging Learning Systems Success in the Context of Business Education	Yi-Shun Wang, Shin-Tzu Cheng, Ci-Rong Li, Ching-Hsuan Yeh, Tzung-I Tang, Chei-Chang Chiou and Yu-Cheng Tang
Computer Adaptive Learning Platform for Calculus	Shing-Lin Chang and Shu-Chen Cheng

**SETE-5, Track: Emerging Technologies of Pedagogical Issues, Sala Baracca, Oct 27 [12:00 - 13:00]**

**Chair: Chih-Ming Chu**

Title	Authors
A Pathway into Computational Thinking in Primary Schools	Aleksandra Djurdjevic-Pahl, Claus Pahl, Ilenia Fronza and Nabil El Ioini
Development and Evaluation of STEM Based instructional Design: An Example of Quadcopter Course	Chih-Hung Lai and Chih-Ming Chu
Exploring Nursing Students' Attitudes on Employing Video Annotation System to Prepare OSCE	Po-Sen Huang, Ying-Hung Pu, Ying Geng and Yueh-Min Huang

**SETE-6, Track: Emerging Technologies Enhanced Language Learning, Sala Baracca, Oct 28 [10:15 - 11:55]**

**Chair: Yu-Liang Ting**

Title	Authors
Improving students' English technical terms learning and willingness to communicate through meaning negotiation	Yaming Tai, Yu-Liang Ting and Pei-Shan Hsieh
A Study on the Usability of Multimedia E-Books with Problem-Based Learning (PBL) Model in Junior High School Students' English Classes	Yi-Tung Lin, Yi-Chien Huang, I-Ting Wang and Kuei-Chih Chuang
An inquiry-based digital storytelling approach for increasing learner autonomy in English	Ming-Chi Liu and Yueh-Min Huang
Investigating Students' Use and Evaluation of Video as a Form of Computer Assisted Language Learning Material	Hsiu-Ting Hung, Yu-Fang Lu and Hui-Chin Yeh
The Effects of Peer Interaction-Based Learning Community through Facebook on Students' English Learning Attitude and Motivation	I-Ting Wang, Yi-Tung Lin, I-Ying Tsai and Kuei-Chih Chuang

**SETE-7, Track: Emerging Technologies of Design, Model and Framework of Learning Systems, Sala Baracca, Oct 28 [12:00 - 13:00]**

**Chair: Dyi-Cheng Chen**

Title	Authors
Towards Semantic Analysis of Mentoring-Learning Relationships within Constructivist Interactions	Farshad Badie
Using AHP to critical thinking develop in precision measurement of vocational college students	Dyi-Cheng Chen, Ci-Syong You, Fu-Yuan Gao and Bo-Yan Lai
Using Summarization Technology for Supporting Problem-based Learning	Yu-Lin Jeng, Yong-Ming Huang and Tien-Chi Huang

**SETE-8, Track: Emerging Technologies Supported Innovative Learning, Sala Baracca, Oct 29 [10:40 - 12:00]**

**Chair: Ghislain Maurice Norbert Isabwe**

Title	Authors
A Novel Web Publishing System Architecture for Statistics Data using Open Source Technology	Md Mostafizur Rahman, Hans Dicken and Dirk Huke
Towards Personalization of Peer Review in Learning Programming	Joseph Sunday, Ghislain Maurice Norbert Isabwe, Muhammad Usman Ali and Renee Patrizia Schulz
The Design of TurnTalk for The Scaolding of Balanced Conversations in Groups of Children	Alessandra Melonio and Mehdi Rizvi
Tangible Design for Inclusive Conversations with Deaf or Hard-of-Hearing Children	Rosella Gennari, Francesco Pavani and Mehdi Rizvi

# ICWL – Doctoral Consortium

## DC Co-chairs

Maria De Marsico, Dept. of Computer Science, Sapienza University, Rome, Italy

Zuzana Kubincová, Dept. of Informatics Education, Comenius University in Bratislava, Slovakia

Carla Limongelli, Dept. of Engineering, RomaTre University, Rome, Italy

## DC Program Committee

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Elvira Popescu, University of Craiova, Romania (tentative)

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Filippo Sciarrone, Dept. of Engineering, RomaTre University, Rome, Italy

Davide Taibi, ITD, National Council of Research, Palermo, Italy

## Doctoral Consortium Session, Sala Gioco, Oct 28 [10:15 - 13:00]

Chair: Maria De Marsico, Zuzana Kubincová, Carla Limongelli

Title	Authors
An Intelligent Agent with Ontological Knowledge: Classification of educational Materials to Support the Creation of Online Course	Carlo De Medio, RomaTre University
Discovering Educational Resources on the Web for Technology Enhanced Learning Applications	Matteo Lombardi, Griffith University
WebEduRank: an Educational Ranking Principle of Web Resource for Teaching	Alessandro Marani, Griffith University
Children's Socio-Emotional Learning Enhanced by Tangible for Groups Activities	Mehdi Rizvi, Free University of Bozen-Bolzano
Game@School. Teaching through Gaming and Mobile-based Tutoring Systems	Annalisa Terracina, Sapienza University

# AADI, Workshop on Active Ageing and Digital Inclusion

## Workshop Co-chairs

Di Zou, The Hong Kong Polytechnic University, Hong Kong

Haoran Xie, The Education University of Hong Kong, Hong Kong

Xue Bai, The Hong Kong Polytechnic University, Hong Kong

Fu Lee Wang, Caritas Institute of Higher Education, Hong Kong,

Tak-Lam Wong, The Education University of Hong Kong, Hong Kong

## AADI-1, Sala Douhet, Oct 29 [9:00 - 10:20]

Chair: Philips Fu Lee Wang

Title	Authors
Sentiment analysis for older people in cross-platform instant messaging service ( <i>Short</i> )	Haoran Xie, Tak-Lam Wong, Di Zou, Fu Lee Wang, Leung Pun Wong
English education for the elderly in Hong Kong ( <i>Short</i> )	Di Zou, Fu Lee Wang, Haoran Xie, Tak-Lam Wong
Photography-based Intervention: when the aged meets digital age ( <i>Short</i> )	Wai-Yip Chen

## AADI-2, Sala Douhet, Oct 29 [10:40 - 12:00]

Chair: Philips Fu Lee Wang

Title	Authors
Social support and sense of loneliness in solitary older adults: implications for service and programme development ( <i>Short</i> )	Xue Bai, Shuyan Yang, Fu Lee Wang, Martin Knapp
A study of tag-based recipe recommendations for users in different age groups	Wei-Chen and Zhemin Li
Using iBeacon Technology for Active Aging Learning ( <i>Short</i> )	Tak-Lam Wong, Haoran Xie, Di Zou; Fu Lee Wang



# AICTACE: Workshop on The Applications of Information and Communication Technologies in Adult and Continuing Education

## Workshop Co-chairs

Jyh-Chong Liang, National Taiwan Un. of Science and Technology, Taiwan  
 Min-Hsien Lee, National Sun Yat-sen University, Taiwan

## AICTACE, Sala Gioco, Oct 27 [16:25 - 17:45]

Chair: Jyh-Chong Liang

Title	Authors
How Solid Learning Model Influence Learners' Creativity? An Empirical Study to Explore the Relationships Between Personalization, Interdisciplinary Capability and Creativity	Xuesong Zhai, Jing Zhang, Huifu Xu, Yan Dong, Qiaoqiao Zhan, Yuee Chen, Huimin Zhang, Jing Yuan
Exploring the relationships between Taiwan university students' perceived teacher authority toward Internet-based learning environments and their approaches to Internet-based learning	Min-Hsien Lee
Investigating learners' perceptions of and preferences for teacher authority in Internet-based learning environment: the adults in the Open University in Taiwan	Yi-Lun Syu and Min-Hsien Lee
Taiwan In-service Teachers' Perceptions of 21st Century Learning Practice, Design Disposition, and Usage of Information and Communication Technology (ICT)	Sheng Lun, Tzung-Jin Lin, Chih-Hui Lin, Ching-Sing Chai, Jyh-Chong Liang and Chin-Chung Tsai
Investigating Technological Pedagogical and Content Knowledge (TPACK) of Native Language Teachers in Taiwan	Kun-Hung Cheng and Chin-Chung Tsai

# ETLL, Workshop on Emerging Technologies for Language Learning

## Workshop Co-chairs

Di Zou, The Hong Kong Polytechnic University, Hong Kong

Tianyong Hao, Guangdong University of Foreign Studies, China

Meilin Chen, City University of Hong Kong, Hong Kong

## ETLL-1, Sala Douhet, Oct 26 [9:00 - 10:40]

Chair: Tianyong HAO

Title	Authors
Automatic Essay Scoring Based on Coh-metrix Feature Selection for Chinese English Learners	Xia Li and Jianda Liu
Text Analysis of Corpus Linguistics in a Post-concordancer Era ( <i>Short</i> )	Simon-Ho Wang
Comparing the performance of Latent Semantic Analysis (LSA) and Probability Latent Semantic Analysis (PLSA) models on texts analysis tasks	Xiaohua Ke

## ETLL-2, Sala Douhet, Oct 26 [11:05 - 12:45]

Chair: Tianyong HAO

Title	Authors
Learner Feature Variation in Measuring the Listenability for Learners of English as a Foreign Language	Katsunori Kotani and Takehiko Yoshimi
Corpus-based Correlational Study of Terms and Quality in Business English Writing	Shili Ge, Jingchao Zhang and Xiaoxiao Chen
Speech Verbs' Typology and Their Translation in Chinese	Nana Jin and Val Chen
An Empirical Study of Corpora Application in Data-driven English Lexical Learning	Xiaowen Wang, Tianyong Hao

# IWUM, 2nd International Workshop on User Modeling for Web-based Learning

## Workshop Co-chairs

Yanghui Rao, Sun Yat-sen University, China

Wei Chen, Chinese Academy of Agricultural Sciences, China

Yunhui Zhuang, City University of Hong Kong, Hong Kong

## IWUM-1, Sala Gioco, Oct 28 [14:25 - 16:05]

Chair: Wei Chen

Title	Authors
Agent-based Simulation for Agricultural Learning Resource Recommendation Based on Geographical Similarities ( <i>Short</i> )	Wei Chen and Zhemin Li
Towards a Characterization of Educational Material: an Analysis of Coursera Resources	Carlo De Medio, Fabio Gasparetti, Carla Limongelli, Matteo Lombardi, Alessandro Marani, Filippo Sciarrone and Marco Temperini
Diachronic analysis on the change of citation behaviour based the Core Medical Journals in Guangdong Province ( <i>Short</i> )	Wang Shuo, Zhan Changchen, Chen Yangling, Wu Qingyuan and Yuan Xinjie

## IWUM-2, Sala Gioco, Oct 28 [16:25 - 17:45]

Chair: Wei Chen

Title	Authors
Topic-level Clustering on Web Resources	Shiyu Zhao, Fu Lee Wang, Leung Pun Wong
On Security and Privacy of Quick Response System in Classroom Teaching ( <i>Short</i> )	Ying Chen, Yunhui Zhuang, Haoran Xie and Fu-Lee Wang
When Innovation Meets Evolution: An Extensive Study of Emerging E-Learning Technologies for Higher Education in Hong Kong	Yunhui Zhuang, He Ma, Haoran Xie, Alvin Chung-Man Leung, Gerhard P. Hancke and Fu Lee Wang

# OALTA, Workshop on Online Adaptive Learning Techniques and Applications

## Workshop Co-chairs

Jui-Long Hung, Boise State University, USA

Jun-Ming Su, University of Tainan, Taiwan

Bor-Chen Kuo, National Taichung University of Education, Taiwan

Hsiao-Chien Tseng, Institute for Information Industry, Taiwan

Stephen Yang, National Central University, Taiwan

Chih-Chang Yu, Institute for Information Industry, Taiwan

## OALTA-1, Sala Gioco, Oct 29 [9:00 - 10:20]

Chair: Hsiao-Chien Tseng

Title	Authors
Building an online adaptive learning and recommendation platform ( <i>Short</i> )	Hsiao-Chien Tseng, Chieh-Feng Chiang, Jun-Ming Su and Jui-Long Hung
Look Taiwan Education Big Data Research: Taking Taiwan Education Big Market Data for Example	Yu-Sheng Su, Chester S.J. Huang and Sheng-Yi Wu
VisCa: A Dashboard System to Visualize Learning Activities from E-learning Platforms	Chan-Hsien Lin, Shih-Shin Hu, Horng-Yih Lai, Chieh-Feng Chiang, Hsiao-Chien Tseng and Yuan-Che Cheng

## OALTA-2, Sala Gioco, Oct 29 [10:40 - 12:00]

Chair: Hsiao-Chien Tseng

Title	Authors
A Comparison of Adaptive Learning within the SOI Model using Paper and Computer Presentation ( <i>Short</i> )	Wen-Yi Lin, Huei-ping Chen and Fang-Ming Hwang
Adaptation of Personalized Education in E-learning Environment	Kateřina Kostolányová
Closing the Reading Gap with Virtual Maze Environments	Lisa Gabel, Evelyn Johnson, Brett E. Shelton and Jui-Long Hung

# PRASAE: 3<sup>rd</sup> International Workshop on Peer Review, Peer Assessment, and Self-Assessment in Education

## Workshop Co-chairs:

Martin Homola, Comenius University in Bratislava, Slovakia

Zuzana Kubincová, Comenius University in Bratislava, Slovakia

## PRASAE-1, Sala Gioco, Oct 27 [12:00 - 13:00] - Chair: Martin Homola

(papers will have 25 min. questions included)

Opening, 12:00 – 12:10	
Title	Authors
Peer Reviews in a Web Design Course: Now Students Like Them Too	Veronika Dropčová, Zuzana Kubincová and Martin Homola
Exploring the Role of Online Peer-Assessment as a Tool of Early Intervention	Michael Mogessie Ashenafi, Marco Ronchetti and Giuseppe Riccardi

## PRASAE-2, Sala Gioco, Oct 27 [14:25 - 16:05] - Chair: Martin Homola

(papers will have 25 min. questions included; Invited will have 35 min. questions included)

Title	Authors
<b>Invited Presentation</b> Peer evaluation approaches in a social learning environment	Elvira Popescu
Improving peer assessment modeling of teacher's grades, the case of Open Answer	Maria De Marsico, Andrea Sterbini and Marco Temperini
Inter-university peer review in virtual learning groups	Elisabeth Katzlinger, Martin Stabauer and Michael A. Herzog
Discussion and wrap up, 15:50 – 16:05	

# SPeL, 9th International Workshop on Social and Personal Computing for Web-Supported Learning Communities

## Workshop Co-chairs

Elvira Popescu, University of Craiova, Romania

Sabine Graf, Athabasca University, Canada

## SPeL-1, Sala Gioco, Oct 26 [9:00 - 10:40]

Chair: Elvira Popescu

Title	Authors
Automatic student group generation for collaborative activities based on the Zone of Proximal Development.	Maria De Marsico, Emanulele Giarlini, Andrea Sterbini and Marco Temperini
sMOOC and gamification: A proposed ubiquitous learning ( <i>Short</i> )	Javier Gil-Quintana, Lucía Camarero-Cano, Carmen Cantillo-Valero and Sara Osuna-Acedo
Obtaining assessment tests after double filtration ( <i>Short</i> )	Doru Anastasiu Popescu, Nicolae Bold and Alexandru Ion Popescu
Automatic Inspection of E-Portfolios for Improving Formative and Summative Assessment	Wolfgang Mueller, Sandra Rebholz and Paul Libbrecht

## SPeL-2, Sala Gioco, Oct 26 [11:05 - 12:45]

Chair: Elvira Popescu

Title	Authors
Social Network Sites and their Use in Education ( <i>Short</i> )	Blanka Klimova and Petra Maresova
Adaptive Video Techniques for Informal Learning Support in Workplace Environments	Milos Kravcik, Petru Nicolaescu, Aarij Siddiqui and Ralf Klamma
Second Screen User Profiling and Multi-level Smart Recommendations in the Social TV of SAM	Angelos Valsamis, Alexandros Psychas, Fotis Aisopos, Andreas Menychtas and Theodora Varvarigou
Keyword-based similarity using automatically generated semantic graph in an online Community of Practice ( <i>Short</i> )	Oumayma Chergui, Ahlame Begdouri and Dominique Groux-Lecllet
Wikis as a mediation platform for developing learning communities	George Palaigeorgiou and Ioannis Kazanidis

# TELL: Workshop on Technology Enhanced Language Learning

**Workshop Co-chairs:** Jie Chi Yang, National Central University, Taiwan  
Masanori Yamada, Kyushu University, Japan

## TELL-1, Sala Douhet, Oct 27 [10:15 - 11:55] - Chair: Jie Chi Yang

Title	Authors
An Investigation of Students' Perception on Willingness to Communicate Behavior and Synchronous Communication	Mei-Jen Audrey Shih and Jie-Chi Yang
Effects of Flipped Jigsaw Collaborative Learning on English as a Foreign Language Learning Anxiety	Yoshiko Goda, Masanori Yamada, Kojiro Hata, Hideya Matsukawa and Seisuke Yasunami
Integrating Mind Tools as a CMAS Cycle for Secondary School Students to Learn English as a Foreign Language	Ting-Chia Hsu
Game-Based Application for Informal Learning of English Using FLEG	Boyu Wang, Feier Tang, Kousuke Kaneko, Masanori Yamada and Yoshihiro Okada
Timeline Wiki and Learner Autonomy: An Action Research Report	Aubrey Neil Leveridge

## TELL-2, Sala Douhet, Oct 27 [14:25 - 16:05] - Chair: Jie Chi Yang

Title	Authors
Application of Facebook platform assists Taiwanese students to learn Vietnamese ( <i>Short</i> )	Thi Thanh Tuyen Mai and Eric Zhi-Feng Liu
Developing a Speaking Practice Website by Using Automatic Speech Recognition Technology ( <i>Short</i> )	Hao-Jan Howard Chen
Classification of Speaking Proficiency Level by Machine Learning and Feature Selection ( <i>Short</i> )	Brendan Flanagan, Sachio Hirokawa, Emiko Kaneko and Emi Izumi
An Investigation into English Language Learners' Argumentative Writing Performance and Perceptions ( <i>Short</i> )	Hsiu-Ting Hung, Hui-Chin Yeh and Chun-Hao Chou
Lessons from Five Years of Online Proficiency Testing associated with the Freshman and Sophomore English Course in a Technology University ( <i>Short</i> )	Shu Mei Gloria Chwo
Applying MOOCs learning to Standard Courses: Some Facts ( <i>Short</i> )	Hsing Chin Lee
Assessment in the eLearning Course on Academic Writing – A Case Study ( <i>Short</i> )	Blanka Klimova

# ICWL 2016

# SETE 2016

Rome, Italy, October 26-29, 2016

## Organization



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