ALICE 2011

International Workshop on Adaptive Learning via Interactive, Collaborative and Emotional approaches

http://www.aliceproject.eu

WORKSHOP PROGRAMME

In conjunction with
Third International Conference on
Intelligent Networking and Collaborative Systems
IEEE INCOS-2011
http://voyager.ce.fit.ac.jp/~incos2011

December 1st, 2011

Fukuoka Institute of Technology (FIT)
Fukuoka, JAPAN

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General Information

Workshop chairs

Santi Caballé, Open University of Catalonia, Barcelona, Spain
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Nicola Capuano, University of Salerno, Italy
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Supported and Organized by

The FP7-EU project ALICE (http://www.aliceproject.eu/).

Scope and objectives

Despite a great potential and some initial successes, e-learning systems do not yet have the impact that many believe is possible. Moreover, the gap seems to be increasing because of the greater expectations of the current generation (Digital Natives) who have grown up with modern technology. There are also more general problems. In particular, an over-emphasis on cost effectiveness has meant that content is often not as strong as it needs to be and this deficiency has contributed to a lack of user engagement and some high attrition rates. Studies have consistently highlighted the important relationship between engagement and learning, with students who are highly motivated being more likely to engage in the learning process.

The international workshop ALICE 2011 aims at providing a forum for innovative adaptive e-learning combining personalization, collaboration and simulation aspects within an affective/emotional based approach able to contribute to the overcoming of the quoted limitations of current e-learning systems and content. Special emphasis is given to environments that are interactive, challenging and context aware while enabling learners' demand of empowerment, social identity, and authentic learning experience.

13 high quality papers were accepted and will be presented in ALICE-2011 workshop. These papers address the above issues and have consistently highlighted the important relationship between engagement and learning, with students who are highly motivated being more likely to engage in the learning process.

The International Workshop on Adaptive Learning via Interactive, Collaborative and Emotional approaches (ALICE-2011) is to be held in conjunction with the 3rd IEEE International Conference on Intelligent Networking and Collaborative Systems (IEEE INCoS-2011) in Fukuoka Institute of Technology, Fukuoka, Japan, on December 1, 2011

Topics of interest

The main topics of interest within the scope of advances and innovative e-Learning systems include, but are not limited to:

- Live and Virtualized Collaboration
- Affective and Emotional Approaches
- Simulation and Serious Games
- New Forms of e-Assessment
- Storytelling
- Adaptive Technologies

Program committee

Saverio Salerno, University of Salerno, Italy
Anna Pierri, MOMA, Italy
Thanasis Daradoumis, Open University of Catalonia, Spain
Christian Gütl, Graz University of Technology, Austria
Sara de Freitas, Coventry University, UK
Angel Juan, Open University of Catalonia, Spain
Jordi Conesa, Open University of Catalonia, Spain
Josep Prieto, Open University of Catalonia, Spain
David Gañan, Open University of Catalonia, Spain
Nestor Mora, Open University of Catalonia, Spain
Jose Mangione, University of Salerno, Italy
Gerardo Iovane, University of Salerno, Italy
Germano Ingenito, University of Salerno, Italy
Panagiotis Petridis, Coventry University, UK
Ian Dunwell, Coventry University, UK
Nick Scerbakov, Graz University of Technology, Austria
Martin Ebner, Graz University of Technology, Austria
Margit Höfler, Graz University of Technology, Austria
Mohammad Smadi, Graz University of Technology, Austria
Marcello Rosciano, MOMA, Italy
Francesco Zurolo, MOMA, Italy
Sergio Miranda, MOMA, Italy
Mihalis Feidakis, University of the Aegean, Greece
Maria Kordaki, University of the Aegean, Greece
Luis Casillas, University of Guadalajara, Mexico

Publication

ALICE 2011 papers are published by IEEE Computer Society.

Best papers presented in ALICE 2011 Workshop will be invited for potential inclusion of an extended version in a Special Issue of the Journal of Computer Assisted Learning (JCAL). ISSN: 0266-4909. Indexed in ISI Journal Citation Reports® 2010: Education & Educational Research: 41 / 177 (Q1): Impact Factor: 1.25 (to be announced). Special thanks to the Editor-in-Chief of the Journal of Computer Assisted Learning for the consideration of publishing an extension of the best papers of the workshop in this prestigious journal.

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Keynote

Keynote of Naomi Miyake, CoREF, University of Tokyo, Tokyo, Japan

E-mail: nmiyake@p.u-tokyo.ac.jp

**Knowledge constructive jigsaw as an adaptive learning framework:
Its design principles and network supports**

Abstract:
I will report our current endeavor to create a learning community aiming for better quality education, by changing classroom practices from teacher-centric to learnercentric. Our efforts are focused on creating intellectually challenging collaborative learning based on a framework called "constructive interaction," which has been identified as a basic skill of human beings to learn from social interaction. The design is called the "Knowledge Constructive Jigsaw," which encourages the learners engage in actively explaining what each learner knows to integrate them and create an answer to the shared problem. In this presentation, I will explain the basic framework and how it can be implemented in regular classroom activities, with some outcomes. I will then touch upon how this renovation effort opens new research fields, including the formation of a networked, sustainable learning community.

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Program

Thursday, December 1, 2011

11:00 – 12:30 Parallel Sessions

S1: E-learning Systems (Room 5)
Chair: Santi Caballe, *Open University of Catalonia, Spain*

1. **Keynote Talk:** Knowledge Constructive Jigsaw as an Adaptive Learning Framework: Its Design Principles and Network Supports
Naomi Miyake, The University of Tokyo, Japan

2. An Ontology-based System for Context-aware e-Learning
Nicola Capuano, Matteo Gaeta, Saverio Salerno, Guseppina Rita Mangione

3. An Integrated Model for e-Assessment of Learning Experiences Enriched with Complex Learning Resources
Mohammad Al-Smadi, Margit Hoefler, Christian Guetl

12:30 – 14:00 Lunch Break

14:00 – 15:30 Parallel Sessions

S2: Adaptive Learning and Collaborative Systems (Room 5)
Chair: Jose Mangione, *University of Salerno, Italy*

4. The Evaluation of ReCoNote Summaries for Learner-Centered Integration
Sayaka Tohyama, Naomi Miyake

5. A Framework for Dealing with Knowledge About On-line Collaborative Learning Sessions
Jordi Conesa, Santi Caballé, David Ganan, Josep Prieto

6. CC-LO: a New Type of Learning Object for the Virtualization of Live Collaborative Sessions
Santi Caballé, Néstor Mora, Ian Dunwell, David Gañán

7. Interoperability Scenarios to Measure Informal Learning Carried Out in PLEs
Miguel Conde, Francisco García-Penalvo, Marc Alier

8. Emotion Measurement in Intelligent Tutoring Systems: What, When and How to Measure
Michael Feidakis, Thanasis Daradoumis, Santi Caballé

15:30 – 16:00 Coffee Break

16:00 – 17:30 Parallel Sessions

S3: E-learning Applications and Algorithms (Room 5)
Chair: Santi Caballe, *Open University of Catalonia, Spain*

9. Blended Game-Based Learning Environments: Extending a Serious Game Into a Learning Content Management System
Ian Dunwell, Panagiotis Petridis, Sylvester Arnab, Aristidis Protopsaltis, Maurice Hendrix, Sara de Freitas

10. A New Model for Storytelling Complex Learning Objects
Giuseppina Rita Mangione, Francesco Orciuoli, Anna Pierri, Pierluigi Ritrovato, Marcello Rosciano

11. Exploring Fish School Algorithm for Improving Turnaround Time: An Experience of Content Retrieval
Soumya Banerjee, Santi Caballé

12. Exploring Learning Pattern in Social Network
Soumya Banerjee, Santi Caballé

13. Ethnic Immigrant Minorities and Mobile Learning for Schools - A Class Without Walls, A New Didactic Approach to Digital Literacy Across the Curriculum
Konstantinos Kalemis

17.30 Workshop Closure

19:00-21:00 Conference Banquet

For further information on the workshop venue, visit:

http://voyager.ce.fit.ac.jp/~incos2011/venue.html