International Workshop on Combining Intelligent and Adaptive Hypermedia Methods/Techniques in Web-Based Education Systems

in conjunction with the
Sixteenth ACM Conference on Hypertext and Hypermedia (HT-05)

September 6-9, 2005, Salzburg, Austria

CALL FOR PAPERS

Objectives

There have been a great number of research efforts in designing and implementing web-based education systems that offer personalized learning or other personalized educational facilities to users. Personalization concerns a number of educational activities/facilities, like lesson planning, teaching content specification, answer/solution analysis, problem solving support, student evaluation, test generation, student collaboration, class monitoring, educational resources recommendation, etc. Personalization is achieved by using methods/techniques coming from two main sources: Artificial Intelligence (AI) and Adaptive Hypermedia (AH). AI methods/techniques include: knowledge representation and reasoning, expert systems, AI planning, machine learning,
neurocomputing, etc. AH methods/techniques include: adaptive text presentation, adaptive link annotation, adaptive link sorting, etc. AH methods/techniques may use AI methods/techniques for their implementation. However, most of the existing Adaptive Education Hypermedia Systems use methods/techniques that can hardly be considered as "intelligent". Also, apart from "traditional" AI methods/techniques, there have been Web-oriented AI methods/techniques, like web usage mining or filtering techniques. Furthermore, Semantic Web is a source of additional intelligent methods/techniques, like ontologies based representation, description logics based reasoning etc. So, web-based intelligent/adaptive education systems that combine an AI method/technique either with another AI method/technique or with an AH method/technique for implementing the same or different educational activities/facilities seem to be an interesting research direction.

The objective of the workshop is to bring together researchers and developers of web-based intelligent and adaptive education systems to exchange experiences and ideas on how intelligent methods/techniques can be combined either with themselves or with adaptive hypermedia methods/techniques towards more effective personalized education.

Topics

Topics of interest include (but not limited to) the following:

- AI in authoring and visualizing adaptive educational hypermedia
- AI in collaborative web-based educational systems
- AI planning techniques for web-based curriculum sequencing
- AI techniques for adaptive presentation and navigation
- AI techniques for pedagogical strategies implementation
- Cognitive models in adaptive hypermedia educational systems
- Data mining in adaptive education hypermedia systems
- Description logics in semantic web-based education systems
- Expert systems in adaptive education hypermedia systems
- Hybrid AI techniques in web-based education systems
- Intelligent agent based adaptive educational hypermedia systems
- Knowledge representation techniques for web-based student modeling
Paper submission and processing

We are interested in high quality research papers on the above or related topics. Interested authors should submit electronic versions of their papers (in pdf, ps or word format) by email to the Workshop chair (see at the end of the page). The papers should not exceed 10 pages (following standard ACM guidelines) and are due by **June 12th, 2005**. All papers will be refereed by at least two members of the program committee of the Workshop.

Accepted Papers

There were 18 submissions to the Workshop including authors from 11 different countries. Submitted papers were reviewed by at least two members of the PC. From those submissions 6 have been accepted as full papers and 6 as short papers, based on the comments of the reviewers. So, there is a total of 12 accepted papers that will be presented at the Workshop, which we hope that will be quite interesting.
Paper submission due: June 24th, 2005
Notification of acceptance: July 31st, 2005
Final version due: August 20th, 2005

Proceedings
Proceedings of all accepted papers in pdf format are available [here](http://mmlab.ceid.upatras.gr/aigroup/ht05-wbies/). Revised versions of selected papers will be published in the ACM Digital Library after the end of the conference. Selected authors may be asked to submit extended versions of their papers to be considered (after a second review round) for publication in a special issue of an international journal.

Workshop Attendance
One of the authors of each accepted paper is expected to present it at the Workshop. Workshop participants are limited to 20-30 persons. Workshop program is now available [here](http://mmlab.ceid.upatras.gr/aigroup/ht05-wbies/). A photo of some of the participants is now available.

Program Committee
Lora Aroyo
Dept of Mathematics and Computer Science, Eindhoven University of Technology, The Netherlands

Rosa M. Carro
Escuela Politecnica Superior, Universidad Autonoma de Madrid, Spain

Alexandra Cristea
Dept of Mathematics and Computer Science, Eindhoven University of Technology, The Netherlands

Vania Dimitrova
School of Computing, University of Leeds, UK

Elena Gaudioso
Department of Artificial Intelligence, National University of Distance Education, Spain

Ioannis Hatzilygeroudis
Dept. of Computer Engineering & Informatics, University of Patras & RACTI, Greece (chair)

Nicola Henze
Institute of Information Systems, University of Hannover, Germany

George Magoulas
School of Computer Science and Information Systems, Birkbeck College, University of London, UK

Eva Millan
Department of Computer Science, University of Malaga, Spain

Tanja Mitrovic
Department of Computer Science and Software Engineering, University of Canterbury, New Zealand

Jim Prentzas
RACTI & Technological Educational Institute of Lamia, Greece

Ingrid Russell
Dept of Computer Science, University of Hartford, USA
Demetrios Sampson  
Dept of Technology in Education and Digital Systems, University of Piraeus & CERTH, Greece

Spiros Sirmakessis  
RACTI & Technological Educational Institute of Messologi, Greece

Serengul Smith-Atakan  
School of Computing Science, Middlesex University, UK

Maria Virvou  
Dept of Informatics, University of Piraeus, Greece

Kalina Yacef  
School of Information technologies, University of Sydney, Australia

For further information and paper submission contact

Ioannis Hatzilygeroudis (chair)  
RACTI &  
Dept of Computer Engineering & Informatics  
University of Patras  
26500 Patras  
HELLAS (GREECE)**  
Email: ihatz@cti.gr, ihatz@ceid.upatras.gr,  
URL: http://mmlab.ceid.upatras.gr/aigroup/ihatz/
** HELLAS and GREECE are equivalent names of my country. Although GREECE has dominated for historical reasons, HELLAS is its proper name.