

AIED 2007 Call for Papers (Preliminary Announcement)
Building Technology Rich Learning Contexts that Work

13th International Conference on Artificial Intelligence in Education
<http://www.isi.edu/AIED2007>

Marina Beach Marriott Hotel, Los Angeles, July 9-13, 2007

The 13th International Conference on Artificial Intelligence in Education (AIED 2007) is in an ongoing series of biennial international conferences for top quality research in cognitive science and intelligent systems for educational computing applications. The conference thus provides opportunities for the cross-fertilization of information and ideas from researchers in the many fields that make up this interdisciplinary research area, including: artificial intelligence, other areas of computer science, cognitive science, education, learning sciences, educational technology, psychology, philosophy, sociology, anthropology, linguistics, and the many domain-specific areas for which AIED systems have been designed and built.

AIED-07 is being actively planned; below we give a summary of important information to date.

TOPICS

The technical program focuses on research linking theory and technology from artificial intelligence, cognitive science, and computer science with theory and practice from education and social science. Areas of interest include, but are not limited to:

- Socially informed design: Social dimensions of learning. Social-historical-cultural contexts. Learning and identity. Motivation and engagement in learning. Informal learning environments.
- Collaborative and group learning: Group learning environments. Networked learning communities. Analysis and modeling of group interactions. Design principles for collaborative learning environments. Communities of learners. Communities of practice.
- Learning systems platforms and architectures: Web based learning platforms. Metadata standards for learning objects and materials. Document management for learning applications. Authoring tools and assessment tools.
- Modeling and representation: Models of learners, facilitators, tasks and problem-solving processes. Knowledge representation and ontologies. Discourse representation and analysis.
- Intelligent tutoring and scaffolding: Adaptive environments (web-based and others). Pedagogical agents. Cognitive diagnosis.

Instructional planning. Motivational diagnosis and feedback. Data mining and machine learning.

- Interaction design and novel interfaces: Ubiquitous computing/mixed reality learning environments. Virtual and 3D learning and training environments. Multi-modal interfaces for learning. Educational multimedia systems.

- Special application fields: Language learning. Mathematics and science education. Industrial, medical and other applications.

- Methods, tools and techniques for effective evaluation of cognitive, meta-cognitive and affective issues.

- The design and modelling of learning contexts and their impact on learning. The development of systems that encompass multiple learning contexts, including mobile learning applications.

IMPORTANT DATES (tentative)

Paper submission due: 12/15/2006

Workshops, panels, and tutorials proposals due:
12/15/2006

Workshops and tutorials approved: 01/15/2007

Author notification: 02/16/2007

Camera ready due: 03/16/2007

SUBMISSION CATEGORIES

- Full papers (8 pages) - All submissions should describe original and unpublished work.
- Young researcher's track (YRT) (6 pages) - The YRT is for work-in progress by graduate students and other young researchers.
- Posters (3 pages) - Authors are encouraged to submit reports on work-in-progress.
- Panels (2 pages) - Panels will bring together 4 or 5 experts to discuss a topical issue.
- Workshop proposals (4 pages) – Proposals for workshops on “hot” topics in AIED.
- Tutorial proposals (3 pages) – Proposals for tutorials on important AIED topics.

CONFERENCE ORGANIZATION

Conference Chair: Jim Greer (greer@cs.usask.ca)

Program Chair: Rose Luckin and Ken Koedinger

(R.Luckin@ioe.ac.uk, koedinger@cmu.edu)

Workshop & Tutorials: TBA

Local Arrangements: Lewis Johnson

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