

**AAAI FALL SYMPOSIUM 2010 ON
“COGNITIVE AND METACOGNITIVE EDUCATIONAL SYSTEMS” MCES 2010
NOVEMBER 11-13 2010, THE WESTIN ARLINGTON GATEWAY, ARLINGTON, VA 22203, USA
CALL FOR PAPERS**

MCES 2010 is the second edition of the successful MCES 2009 Fall Symposium. MCES 2010 aims to create an intellectual forum for researchers from various interdisciplinary fields to present, discuss, and debate various issues related to the cognitive and metacognitive educational systems

MCES 2009 symposium focused on various definitions of MCEs, theoretical and architectural aspects in the design of a new generation of MetaCognitive Tools for enhancing learning, and interdisciplinary methods and analytical procedures used to understand learning with MCEs. The symposium raises debate regarding new fundamental questions of paramount importance and that will be the foci at the MCES 2010 symposium:

- What are the theoretical pillars standard CBLEs must adopt to be characterized as MCEs?
- Is it possible to develop a unified framework for all metacognitive educational systems?
- To what extent does the educational system itself have to exhibit metacognitive behavior(s), and how are these behaviors organized to support learning?
- What are the main aspects in metacognition, self-regulation skills, and emotions that influence the learning process?
- What does it mean to be metacognitive, and how can one learn to be metacognitive? Can meta-cognitive skills actually arise from the interaction with MCEs?
- How can a MCE be autonomous and increase its knowledge to match the learners' evolving skills and knowledge?
- What about agent-based systems? MCE may not be embodied, but does it help if they act as social agents?

We solicit interdisciplinary contributions in the following topics:

- Artificial Intelligence (AI)
 - Ontologies
 - Knowledge management
 - Knowledge acquisition
 - Reasoning
 - Intelligent agents
- Cognitive Science
 - Cognitive architectures
 - Cognitive models applied to the learning domain
 - Metacognition and self-regulated learning (SRL) models and their implementation in learning environments
- Machine Consciousness
 - Paradigms and systems for “conscious” educational systems
- Educational and Learning Sciences
 - Metacognitive monitoring and control
 - Contextual constraints
 - Scaffolding SRL processes
 - Agency and goal-driven learning
 - Training and acquisition of SRL skills
 - Tutoring of SRL skills
- Methodological and analytical techniques for studying learning with MCEs
- Computational Linguistics
 - NLP techniques for assessment
 - Dialogue management
 - Pragmatics and argumentation
 - Conversational and pedagogical agents
- Computer-Human Interaction
 - Adaptive interfaces
 - Information visualization
 - User profiling and modeling
 - Interaction with embodied MCEs
- Affective computing
 - Detection, classification, and interpretation of affect
 - Methodologies and analyses of affect
 - Emotion regulation
- Computer Science and Engineering
 - Software architectures for MCEs
 - Web 2.0 and semantic web technologies
 - Agent-based systems

Important Dates

June 5, 2010: Abstract submission

June 15, 2010: Full paper submission

July 20, 2010: Notification of acceptance/rejection

September 15, 2010: Camera-ready submission

October 15, 2010: Registration deadline

November 11-13, 2010: MCES 2010 Fall Symposium

Symposium website: <http://chilab.dinfo.unipa.it/mces2010/>. Contacts and information: mces-info@dinfo.unipa.it.

Symposium Chairs

Roberto Pirrone (University of Palermo, Italy)

Roger Azevedo (McGill University, Canada)

Gautam Biswas (Vanderbilt University, USA).

International Organizing Committee

Philip Winne (Simon Fraser University), *James Lester* (North Carolina State University), *Susanne Lajoie* (McGill University), *Valerie Shute* (Florida State University), *Amy Baylor* (Florida State University), *Cristina Conati* (University of British Columbia), *Kurt VanLhen* (Arizona State University), *Vincent Aleven* (Carnegie Mellon University).