

## **SECOND CALL FOR PAPERS**

### **The 14th International Conference on Artificial Intelligence: Methodology, Systems, Applications AIMSA 2010**

**- AI and Knowledge Societies: Learning, Sharing, Amplifying -**

**Varna, Bulgaria, 8-10th September, 2010**

<http://www.aimsaconference.org>

**\*\*\*\* Submission deadline: May 9th, 2010 \*\*\*\***

**\*\*\*\* Proceedings published by Springer/LNCS \*\*\*\***

**\*\*\*\* Keynote Speakers \*\*\*\***

**John Domingue, Knowledge Media Institute, The Open University, UK**

**Thore Graepel, Microsoft Research, Cambridge, UK**

**Atanas Kiryakov, Ontotext Lab, Sirma Group Corp., Bulgaria**

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### **SCOPE**

The AIMSA conference series has provided a biennial forum for the presentation of Artificial Intelligence research and development since 1984. The conference, which is held in Bulgaria, covers the full range of topics in Artificial Intelligence and related disciplines and provides an ideal forum for international scientific exchange between Central/Eastern Europe and the rest of the world.

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As its name indicates, the conference is dedicated to Artificial Intelligence in its entirety. However, for AIMSA 2010, we would like to put the emphasis on the application and leverage of Artificial Intelligence technologies in the context of knowledge societies where knowledge creation, accessing, acquiring, and sharing empower individuals and communities. A number of AI techniques play a key role in responding to these challenges. Artificial Intelligence is extensively used in the development of systems for effective management and flexible and personalized access to large knowledge bases, in the semantic web technologies that enable sharing and reuse of and reasoning over semantically annotated resources, in the emerging social semantic web applications that aid humans to collaboratively build semantics, in the construction of intelligent environments for supporting (human and agent) learning, etc. In building such intelligent applications, Artificial Intelligence techniques are typically combined with results from other disciplines such as the social sciences, distributed systems, databases, digital libraries, information retrieval, service oriented applications, etc. AIMSA 2010 aims to reflect this plethora of

avenues with special attention to works that demonstrate the potential of AI for supporting learning, sharing, and amplifying of knowledge.

## **TOPICS**

The conference welcomes submissions of original, high quality papers in all areas of Artificial Intelligence, including but not limited to:

- \* AI in education
- \* Ambient intelligence
- \* Automated reasoning
- \* Collaborative knowledge construction
- \* Computer vision
- \* Data mining and data analysis
- \* Data semantics
- \* Dialogue management and argumentation
- \* Distributed AI
- \* Information integration
- \* Information retrieval
- \* Intelligent decision support
- \* Intelligent techniques for personalization and recommendation
- \* Intelligent user interfaces
- \* Knowledge engineering
- \* Knowledge representation and reasoning
- \* Large scale knowledge management
- \* Logic and constraint programming
- \* Machine learning
- \* Multi-agent systems
- \* Multimedia systems
- \* Natural language processing
- \* Neural networks
- \* Ontologies (creating, learning, mapping, merging, alignment, evolution)
- \* Planning
- \* Robotics
- \* Semantic interoperability
- \* Semantic peer-to-peer and grid systems
- \* Semantic web content creation and annotation
- \* Semantic web for desktops or personal information management
- \* Semantic web for e-learning, e-business, e-culture, e-government, healthcare
- \* Semantic web inference schemes
- \* Semantic web services (description, invocation, composition)
- \* Semantic web technologies for collaboration and cooperation
- \* Social network analysis, including community discovery and structure
- \* Social networks and processes on the semantic web
- \* Trust, privacy, and security on the web
- \* Visualization and modelling and AI

All submissions will be subject to academic peer review by at least two members of the program committee. Selection criteria include accuracy and originality of ideas, clarity and significance of results, and quality of presentation.

For each accepted paper, at least one author is required to attend the conference to present the paper.

The best paper of the conference, as selected by the AIMSA 2010 programme committee, will receive the Best Paper Award during the conference.

## **IMPORTANT DATES**

**Submission deadline: May 9, 2010**

**Notification of acceptance: June 13, 2010**

**Deadline for camera-ready: June 26, 2010**

**Conference: September 8-10, 2010**

## **SUBMISSION DETAILS**

Papers have to be submitted electronically (in PDF format) on the address:

<http://www.easychair.org/conferences/?conf=aimsa2010>.

Papers should be written in English and should be no more than 10 pages, font Times 10pt. Authors are requested to follow the LNCS Style. The first page should contain the title of the paper, names and addresses of all authors (including e-mail), an abstract (100-150 words) and a list of keywords.

Submissions should describe original research. Papers accepted for presentation at AIMSA 2010 cannot be presented or have been presented at another meeting with publicly available published proceedings. Papers that are being submitted to other conferences must indicate this on the title page, as must papers that contain significant overlap with previously published work.

Over lengthy or late submissions will be rejected without review. Notification of receipt and acceptance of papers will be sent to the first author.

## **PROCEEDINGS**

The proceedings will be published by Springer-Verlag in their Lecture Notes in Artificial Intelligence subline of the Lecture Notes in Computer Science series.

## **LANGUAGE**

The official language of the conference is English.

## **LOCATION**

AIMSA will be held at the Golden Sands Tourist Complex, 18 km from the north-east of Varna and 24 km from Varna airport. More information is available in the brochure at the conference web site.

## **PROGRAMME COMMITTEE CHAIR**

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