

Third CALL FOR PAPERS

**The 16th International Conference on  
Artificial Intelligence: Methodology, Systems, Applications  
AIMSA 2014**

**Varna, Bulgaria, 11-13th September, 2014**

**\*\*\*\* Submission deadline (extended): May 16, 2014 \*\*\*\***

**\*\*\*\* Proceedings published by Springer/LNAI \*\*\*\***

and

**The AIMSA Workshop on  
ICT Technologies for the Multimodal Capture, Semantic Analysis and 3D  
Representation of Cultural Heritage**

**Varna, Bulgaria, September 10, 2014**

**\*\*\*\* Submission deadline: June 13, 2014 \*\*\*\***

**\*\*\*\* Proceedings published as a special issue of the Journal of Cybernetics and  
Information Technologies (ISSN 1311-9702) \*\*\*\***

**<http://www.aimsaconference.org>**

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.

## **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**
- \* **Computer vision**
- \* **Data mining and data analysis**
- \* **Data semantics**
- \* **Dialogue management and argumentation**
- \* **Distributed AI**
- \* **Human-computer interaction and AI**
- \* **Information integration**
- \* **Information retrieval**
- \* **Intelligent decision support**
- \* **Intelligent user interfaces**
- \* **Knowledge Discovery in Big Data**
- \* **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, linking, merging, reconciliation)**
- \* **Planning**
- \* **Robotics**
- \* **Semantic interoperability**
- \* **Semantic web for e-business and e-learning**
- \* **Semantic web services (description, invocation, composition)**
- \* **Social desktop and personalisation**
- \* **Social network analysis**
- \* **Tools and methodologies for multi-agent software systems**
- \* **Trust, privacy, and security on the web**
- \* **Visualization and modelling and AI**
- \* **Web-based technology 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.

## **IMPORTANT DATES**

<b>Submission deadline (extended):</b>	<b>May 16, 2014</b>
<b>Notification of acceptance:</b>	<b>June 13, 2014</b>
<b>Deadline for camera-ready:</b>	<b>June 20, 2014</b>
<b>Conference:</b>	<b>September 11-13, 2014</b>

## **SUBMISSION DETAILS**

Papers have to be submitted electronically (in PDF format) via the submission system to the address:

<https://www.easychair.org/conferences/?conf=aimsa2014>

Papers should be written in English and should be no more than 10 pages, font Times 11pt. Authors are requested to follow the LNCS Style (<http://www.springer.com/computer/lncs?SGWID=0-164-12-73062-0>). 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 AIMS 2014 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 in their Lecture Notes in Artificial Intelligence subline of the Lecture Notes in Computer Science series.

## **LOCATION**

AIMSA 2014 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 CHAIRS

### Pascal Hitzler

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## KEYNOTE TALKS

**Ontology as a tool for automated interpretation - Boris G. Mirkin**, National Research University Higher School of Economics, Moscow, Russia

**Formal Concepts for Learning and Education - Bernhard Ganter**, Technical University of Dresden, Germany

**Scalable End-User Access to Big Data - Diego Calvanese**, Free University of Bozen-Bolzano, Italy

## REGISTRATION FEES

Registration fees	Before 15 July	After 15 July
Regular fee <b>AIMSA</b>	400 €	450 €
Student/PhD Student <b>AIMSA</b>	300 €	350 €
Regular fee <b>WORKSHOP</b>	150 €	180 €
Regular fee <b>AIMSA &amp; WORKSHOP</b>	480 €	530 €
Student/PhD Student* <b>AIMSA &amp; WORKSHOP</b>	380 €	420 €

## LOCAL ORGANIZING COMMITTEE CHAIR

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## ORGANISERS

Bulgarian Artificial Intelligence Association

Institute of Information and Communication Technologies at the Bulgarian Academy of Sciences  
(IICT – BAS)