

## CALL FOR PAPERS

### AIMSA 2018

#### **The 18th International Conference on Artificial Intelligence: Methodology, Systems, Applications**

#### **- AI and Deep Learning -**

**Golden Sands resort, Varna, Bulgaria, 12-14th September, 2018**

[www.aimsaconference.org](http://www.aimsaconference.org)

Initiated in 1984, the biennial Artificial Intelligence: Methodology, Systems, Applications (AIMSA) conference is a premier forum for exchanging information and research results on AI theory and principles along with applications of intelligent system technology. The conference traditionally brings together academic and industrial researchers from all areas of AI to share their ideas and experiences and learn about the research in contemporary AI. As its name indicates, the conference is dedicated to Artificial Intelligence in its entirety. However, for AIMSAs 2018, we would like to put an emphasis on Deep Learning (DL) as it has been used successfully in many applications, and is considered one of the most cutting-edge machine learning and AI techniques at the moment. Of course, the focus on DL does not preclude submission of papers on other interesting topics and approaches in AI.

The 18th edition of AIMSAs will be held in the beautiful Varna area, Bulgaria. With excellent opportunities for outdoor activities, water sports and gastronomy, Varna promises to be a wonderful venue for a memorable conference.

#### **TOPICS**

The conference welcomes submissions of original, high quality papers in all areas of Artificial Intelligence, including (but not limited to) traditional topics such as search, machine learning, planning, knowledge representation, reasoning, natural language processing, robotics and perception, multiagent systems, etc.

We especially welcome papers on end-to-end learning; multi-task learning; cross- and multi-modal learning; combinations of DL and knowledge-based approaches; transparency, explainability, stability and provability of DL; DL meta-learning in AI etc., as well as papers that bring useful computational technologies from other areas of computer science into 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 will receive the Best Paper Award during the conference.

## IMPORTANT DATES

Submission deadline:	May 31, 2018
Notification of acceptance:	June 17, 2018
Deadline for camera-ready:	July 1, 2018
Conference:	September 12-14, 2018

## PROCEEDINGS

AIMSA 2018 Proceedings will be by Springer in their **Lecture Notes in Artificial Intelligence** subline of the Lecture Notes in Computer Science series.

**Extended versions** of AIMSAs 2018 selected papers will be published by MDPI, Switzerland, in a **special issue of “Information”** (ISSN 2078-2489) – an Open Access Journal of Information Science (<http://www.mdpi.com/journal/information>).

## PROGRAMME COMMITTEE

<b>Josef van Genabith</b>		The German Research Center for Artificial Intelligence DFKI ( <b>PC Chair</b> )
Gennady	Agre	Institute of Information and Communication Technologies - BAS
Galia	Angelova	Institute of Information and Communication Technologies at Bulgarian Academy of Sciences
Roman	Bartak	Charles University in Prague
Christoph	Beierle	FernUniversität in Hagen
Tarek R.	Besold	City University of London
Loris	Bozzato	CIT-IRST, Fondazione Bruno Kessler
Ricardo	Calix	Purdue University Northwest
Diego	Calvanese	Free University of Bozen-Bolzano
Thierry	Declerck	German Research Center for Artificial Intelligence (DFKI)
Sarah Jane	Delany	Dublin Institute of Technology
Christo	Dichev	Winston-Salem State University
Darina	Dicheva	Winston-Salem State University
Danail	Dochev	Institute of Information and Communication Technologies at Bulgarian Academy of Sciences
Benedict	Du Boulay	University of Sussex
Stefka	Fidanova	Institute of Information and Communication Technologies - BAS
Tomasz	Gambin	Polytechnika Warszawska
Geert-Jan	Houben	Delft University of Technology
Maciej	Kandula	Johannes Kepler University, Linz and BOKU University, Vienna
Kristian	Kersting	TU Darmstadt
Matthias	Knorr	Universidade NOVA de Lisboa
Petia	Koprinkova- Christova	Institute of Information and Communication Technologies at Bulgarian Academy of Sciences
Pawel	Labaj	MCB Jagelonian University, Krakow

Amedeo	Napoli	CNRS, Nancy
Maria	Nisheva	Sofia University
Michal	Okoniewski	ETH Zurich
Dean	Palejev	Institute of Mathematics and Informatics - BAS
Horia	Pop	UBB Cluj
Allan	Ramsay	The University of Manchester
Ioannis	Refanidis	University of Macedonia
Ute	Schmid	University of Bamberg
Dominik	Slezak	University of Warsaw
Stefan	Trausan-Matu	University Politehnica of Bucharest
Dan	Tufis	Institute for Artificial Intelligence, Romanian Academy Research
Petko	Valtchev	Universite du Quebec a Montreal
Josef	van Genabith	The German Research Center for Artificial Intelligence DFKI
Dimitar	Vassilev	Sofia University
Tulay	Yildirim	Yildiz Technical University

## KEYNOTE SPEAKERS

<b>Feiyu Xu</b>	AI Lab, Lenovo Research, Lenovo Group, China
<b>John D. Kelleher</b>	Dublin Institute of Technology, Ireland
<b>Milica Gasic</b>	University of Cambridge, UK

## LANGUAGE

The official language of the conference is English.

## LOCATION

Golden Sands is a modern resort with traditions, and history going back 50 years. A unique blend of lovely nature park, warm sea, and fine golden sand! Golden Sands is the winner of a "Blue Flag" - a prestigious international award for environmentally clean resorts

## REGISTRATION

The AIMSAS'2018 Registration fees includes attendance to AIMSAS'2018 technical sessions, a copy of the AIMSAS'2018 proceedings, Welcome reception, working lunches, coffee-breaks and the Conference dinner.

Registration fees	Before August 1 <sup>st</sup>	After August 1 <sup>st</sup>
Regular fee <b>AIMSA</b>	400€	450€
Student/PhD Student* <b>AIMSA</b>	300€	350€

- \* Early registration fee should be paid **not later than August 1<sup>st</sup>, 2018**.
- \* Authors of accepted papers should pay the registration fee **not later than July 6, 2018**.
- \*\* Students/PhD Students are required to enclose a copy of a certificate.

## **AIMSA 2018 GRANT SCHEME**

Bulgarian Artificial Intelligence Association provides the Grant scheme, which is aimed at AIMSAs 2018 participants who are full time students/PhD students or young researchers and covers AIMSAs 2018 Conference Fee.

**Priority will be given for registered participants with submission accepted for publishing in AIMSAs 2018 Conference Proceedings. In such cases the paid Conference fee will be reimbursed at the Conference.**

## **LOCAL ORGANIZING COMMITTEE CHAIR**

**Gennady Agre**

Institute of Information and Communication Technologies

Bulgarian Academy of Sciences

Acad. G. Bonchev 2, 1113 Sofia, Bulgaria

E-mail: agre@iinf.bas.bg

Phone: +359 28700118

Fax: +359 28707273

## **ORGANIZERS**

Bulgarian Artificial Intelligence Association

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