

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

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

Josef van Genabith	The German Research Center for Artificial Intelligence DFKI (PC Chair)
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
Maria Bielikova	Slovak University of Technology in Bratislava
Loris Bozzato	CIT-IRST, Fondazione Bruno Kessler
Ricardo Calix	Purdue University Northwest
Diego Calvanese	Free University of Bozen-Bolzano
Soon Ae Chun	City University of New York
Sarah Jane Delany	Dublin Institute of Technology
ChristoDichev	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
Artur Garcez	City University of London
Geert-Jan Houben	Delft University of Technology
Kristian Kersting	TU Darmstadt
Matthias Knorr	Universidade NOVA de Lisboa
Petia Koprinkova- Hristova	Institute of Information and Communication Technologies at Bulgarian Academy of Sciences
Adila A. Krisnadhi	Wright State University
Yue Ma	University Paris Sud
Frederick Maier	Florida Institute for Human and Machine Cognition
Amedeo Napoli	CNRS, Nancy
Horia Pop	UBB Cluj
Allan Ramsay	The University of Manchester
IoannisRefanidis	University of Macedonia

Ute Schmid	University of Bamberg
Sergey Sosnovsky	Utrecht University
Stefan Trausan-Matu	University Politehnica of Bucharest
Dan Tufis	Research Institute for Artificial Intelligence, Romanian Academy
Petko Valtchev	Universite du Quebec a Montreal
Tulay Yildirim	Yildiz Technical University
Dominik Slezak	University of Warsaw
Maria Nisheva	Sofia University
Dean Palejev	Institute of Mathematics and Informatics - BAS
Dimitar Vassilev	Sofia University
Maciej Kandula	Johannes Kepler University, Linz and BOKU University, Vienna
Michal Okoniewski	ETH Zurich
Pawel Labaj	MCB Jagelonian University, Krakow
Stefka Fidanova	Institute of Information and Communication Technologies - BAS
Tomasz Gambin	Polytechnika Warszawska

KEYNOTE SPEAKERS

Feiyu Xu	AI Lab, Lenovo Research, Lenovo Group, China
John D. Kelleher	Dublin Institute of Technology, Ireland
Milica Gasic	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 st	After August 1 st
Regular fee AIMSA	400€	450€
Student/PhD Student* AIMSA	300€	350€

* Early registration fee should be paid **not later than August 1st, 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

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ORGANIZERS

Bulgarian Artificial Intelligence Association

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