

Call for Contributions

Submission:

1. **Inform the Chair:** with the Title of your Contribution

2. **Submission URL:**

<https://www.ariasubmit.org/conferences/submit/newcontribution.php?event=ICAS+2018+Special>

Please select Track Preference as **ASANN**

Special track

ASANN: Autonomous Systems with Application of Neural Networks

Chair and Coordinator

Assoc. Prof. PhD. Irina Topalova, FaGEEIM, Technical University Sofia, Bulgaria

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along with

ICAS 2018, The Fourteenth International Conference on Autonomic and Autonomous Systems

May 20, 2018 to May 24, 2018 - Nice, France

<http://www.aria.org/conferences2018/ICAS18.html>

Intelligent Solutions and Artificial Intelligence are already an integral part of modern autonomous systems. There is a growing need to apply different types of neural networks as the primary tool for solving tasks in all autonomous system building blocks. The resemblance of the biological model in the autonomous systems by applying the model of artificial neural networks provides excellent opportunities for optimal results. They are used successfully in the field of reinforcement learning autonomous agents, in predicting and improving the quality of traffic and communication data, for signal processing in sensory systems and for solving various approximation tasks. Due to their good adaptive and fast-processing capabilities, when working in real-time hardware systems, the neural networks are a good opportunity to get cost effective and efficient solutions.

Prospective authors are invited to submit original papers on topics including, but not limited to:

- Application of reinforcement learning techniques in sequential games;
- Evolutionary strategies impact on the performance of reinforcement learning autonomous agents;
- Optimization of methods for approximation of 3D surfaces using neural networks;
- Application of neural networks for TCP/IP traffic analysis, prediction, improvement;
- Neural networks for cost effective and efficient solution for prediction of the subjective speech quality assesment;
- Application of neural networks for radar signal processing in passive wireless sensor systems.

Important Datelines

- Inform the Chairs: As soon as you decided to contribute

- Submission: ~~February 7, 2018~~ **March 28, 2018**

- Notification: ~~March 7, 2018~~ **April 5, 2018**

- Registration: ~~March 21, 2018~~ **April 10, 2018**

- Camera ready: ~~April 2, 2018~~ **April 20, 2018**

Contribution Types

- Regular papers [in the proceedings, digital library]

- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaia.org]
- Presentations: slide only [slide-deck posted on www.iaia.org]
- Demos: two pages [posted on www.iaia.org]

Paper Format

- See: <http://www.iaia.org/format.html>
- Before submission, please check and comply with the editorial rules: <http://www.iaia.org/editorialrules.html>

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iaiajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

Paper Submission

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Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.iaia.org/registration.html>

Contacts

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