



## **CALL for PAPERS**

2 - 5 September, 2021 (online)

### **16<sup>th</sup> International Symposium on Advanced Artificial Intelligence in Applications (AAIA'21)**

as part of the

16th CONFERENCE ON COMPUTER SCIENCE AND INTELLIGENCE SYSTEMS

FedCSIS 2021

**Conference webpage:** <https://fedcsis.org/2021/aaia>

### **Track Chairs**

- Ślęzak, Dominik, University of Warsaw, Poland
- Matwin, Stan, Dalhousie University, Canada

**Contact:** [aaia-track@fedcsis.org](mailto:aaia-track@fedcsis.org)

### **Program Chairs**

- Świechowski, Maciej, QED Software, Poland
- Sosnowski, Łukasz, Systems Research Institute, Polish Academy of Sciences, Poland

**Contact:** [aaia-program@fedcsis.org](mailto:aaia-program@fedcsis.org)

This track is a continuation of international AAIA symposiums, which have been held since 2006. It aims at establishing the synergy between technical sessions, which encompass wide range of aspects of AI. With its longest-tradition threads, such as WCO focusing on Computational Optimization, it is also open to new initiatives categorized with respect to both, the emerging AI-related methodologies and practical usage areas. Nowadays, AI is usually perceived as closely related to the data, therefore, this track's scope includes the elements of Machine Learning, Data Quality, Big Data, etc. However, the realm of AI is far richer and our ultimate goal is to show relationships between all of its subareas, emphasizing a cross-disciplinary nature of the research branches such as XAI, HCI, and many others.

AAIA'21 brings together scientists and practitioners to discuss their latest results and ideas in all areas of Artificial Intelligence. We hope that successful applications presented at AAIA'21 will be of interest to researchers who want to know about both theoretical advances and latest applied developments in AI.

## Topics

Papers related to theories, methodologies, and applications in science and technology in the field of AI are especially solicited. Topics covering industrial applications and academic research are included, but not limited to:

- Decision Support
- Machine Learning
- Fuzzy Sets and Soft Computing
- Rough Sets and Approximate Reasoning
- Data Mining and Knowledge Discovery
- Data Modeling and Feature Engineering
- Data Integration and Information Fusion
- Hybrid and Hierarchical Intelligent Systems
- Neural Networks and Deep Learning
- Reinforcement Learning
- Bayesian Networks and Bayesian Reasoning
- Case-based Reasoning and Similarity
- Web Mining and Social Networks
- Business Intelligence and Online Analytics
- Robotics and Cyber-Physical Systems
- AI-centered Systems and Large-Scale Applications
- AI for Combinatorial Games, Video Games and Serious Games
- Evolutionary Algorithms and Evolutionary Computation

Track 1 includes technical sessions:

- Computational Optimization (14<sup>th</sup> Workshop [WCO'21](#))

## Paper submission

- Authors should submit draft papers (as Postscript, PDF or MSWord file).
- The total length of a paper should not exceed 10 pages IEEE style (including tables, figures and references). IEEE style templates are available [here](#).
- Papers will be refereed and accepted on the basis of their scientific merit and relevance to the workshop.
- Preprints containing accepted papers will be published on a USB memory stick provided to the FedCSIS participants.
- **Only** papers presented at the conference will be published in Conference Proceedings and submitted for inclusion in the IEEE Xplore® database.
- Conference proceedings will be published in a volume with ISBN, ISSN and DOI numbers and posted at the conference WWW site.
- Conference proceedings will be indexed in BazEkon and submitted for indexation in: Thomson Reuters - Conference Proceedings Citation Index, SciVerse Scopus, Inspec, Index Copernicus, DBLP Computer Science Bibliography and Google Scholar
- Organizers reserve right to move accepted papers between FedCSIS technical sessions.

Authors of selected papers of AAIA 2021 will be invited to submit extended versions of their papers to the following journals: Natural Language Processing Research and Human-Centric Intelligent Systems, depending on the paper's topic.

## **Important dates**

**Paper submission (sharp / no extension):** May 24, 2021

**Position paper submission:** June 14, 2021

**Author notification:** July 5, 2021

**Final paper submission, registration:** July 26, 2021

**Payment:** August 2, 2021

**Conference date:** September 2-5, 2021