

## Call for Papers

**Practical applications of explainable artificial intelligence methods special session at DSAA 2022  
Shenzhen, China, 13th -16th October, 2022 (Virtual and Onsite)**

<https://praxai.geist.re>

Important Dates:

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- \*\* Submission Deadline: **June 1, 2022**
  - \*\* Notification of Acceptance: **July 31, 2022**
  - \*\* Camera-Ready Versions Due: **August 15, 2022**
  - \*\* Conference date: **October 13-16, 2022**

PRAXAI special session at [The 9th IEEE International Conference on Data Science and Advanced Analytics](#) (DSAA'2022). The special session is planned to take place in Shenzhen, China, from August 13-16th, 2022 Hybrid: **Onsite and Virtual**.

Objectives

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This special session focuses on bringing the research on Explainable Artificial Intelligence (XAI) to actual applications and tools that help to better integrate them as a must-have step in every AI pipeline. We welcome papers that showcase how XAI has been successfully applied in real-world AI-based tasks, helping domain experts understand the results of a model. Moreover, we also encourage the submission of novel techniques to augment and visualize the information contained in the model explanations. Furthermore, we expect a presentation of practical development tools that make it easier for AI practitioners to integrate XAI methods into their daily work.

Topics of interest

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We encourage receiving papers related to the following topics, which include but are not limited to:

- Model explanations verbalized in human-comprehensible natural language
- Explainable Reinforcement learning
- Explainable AI for Planning and Decision Making
- Automation and XAI
- Cybersecurity and XAI
- Medical XAI
- Evaluation and visualization of explanations
- Software tools for interpretable machine learning and data mining
- Knowledge-augmented explanations
- Human in the loop explanations
- Interactive explanations
- Visualization of model explanations for different types of data apart from language and images (tabular data, time series, graphs, etc.)
- XAI software development and its integration into popular ML/DL libraries

## Submission

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The length of each paper submitted to the Research and Application tracks should be no more than 10 pages, whereas the maximum number of pages is 2 for each abstract submitted to the Poster and Journal track. Both types of papers should be formatted following the standard 2-column U.S. letter style of IEEE Conference template. See the IEEE Proceedings Author Guidelines: [http://www.ieee.org/conferences\\_events/conferences/publishing/templates.html](http://www.ieee.org/conferences_events/conferences/publishing/templates.html), for further information and instructions.

All submissions will be double-blind reviewed by the Program Committee on the basis of technical quality, relevance to the scope of the conference, originality, significance, and clarity. The names and affiliations of authors must not appear in the submissions, and bibliographic references must be adjusted to preserve author anonymity. Submissions failing to comply with paper formatting and authors anonymity will be rejected without reviews.

Authors are also encouraged to submit supplementary materials, i.e., providing the source code and data through a GitHub-like public repository to support the reproducibility of their research results.

Electronic submission site: <https://cmt3.research.microsoft.com/DSAA2022>

## Organizing committee

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*Szymon Bobek* <[szymon.bobek@uj.edu.pl](mailto:szymon.bobek@uj.edu.pl)> Jagiellonian University, Poland  
*Victor Rodriguez-Fernandez* <[victor.rfernandez@upm.es](mailto:victor.rfernandez@upm.es)> Universidad Politécnica de Madrid, Spain  
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## Program committee (tentative)

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Javier del Ser, Tecnalia  
Ricardo Aler, Universidad Carlos III de Madrid  
Felix José Fuentes Hurtado, Universidad Politécnica de Valencia  
Juan Pavón, Universidad Complutense de Madrid  
Francesco Piccialli, University of Naples Federico II  
Salvatore Cuomo, University of Naples Federico II  
Edoardo Prezioso, University of Naples Federico II  
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Stefano Izzo, University of Naples Federico II  
Martin Atzmueller, Universität Osnabrück  
Kacper Sokół, University of Bristol  
Sławomir Nowaczyk, Halmstad University  
Michał Choras, UTP University of Science and Technology  
Bogusław Cyganek, AGH University of Science and Technology in Krakow  
Timos Kipouros, University of Cambridge  
Jerzy Stefanowski, Poznan University of Technology, Poland

We look forward to seeing you at the PRAXAI Special Session at DSAA'2022!

Sincerely,

*Szymon Bobek, Victor Rodriguez-Fernandez, Przemysław Biecek, Grzegorz J. Nalepa*