

## Call for Papers

### Semantic Data Mining Workshop at ECAI 2023

30 September - 1 October 2023

<https://sedami.geist.re>

#### Important Dates:

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- \*\* Submission Deadline: 31.07.2023
- \*\* Notification of Acceptance: 14.08.2023
- \*\* Camera-Ready Versions Due: 21.08.2023
- \*\* Workshop date: TBA

The second Semantic Data Mining (SEDAMI) workshop will be co-located with ECAI 2023. The workshop is planned to take place in Krakow, Poland, 30 September - 1 October 2023.

#### Objectives

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The theme of the SEDAMI workshop is semantic data mining. With this workshop we aim to get an insight into the current status of research in this area. We focus mainly on methods that allow include/utilize/exploit semantic information and domain knowledge in machine learning and data mining, focussing on domains and research questions that have not been deeply investigated so far to improve standard machine learning solutions.

We encourage contributions on methods, techniques and applications that are both domain-specific but also transversal to different application domains. In particular, we solicit contributions that aim to focus on semantic data mining for providing and/or enhancing interpretability, the introduction and upgrading of knowledge, as well as enhancing explanations.

#### Topics of interest

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

- Introduction of semantics into the data mining process
- Explainable artificial intelligence and domain knowledge
- Declarative domain knowledge
- Declarative data mining
- Declarative explainable artificial intelligence
- Integration of causal machine learning and expert knowledge
- Neuro-symbolic artificial intelligence
- Knowledge modeling and data mining
- Feature engineering for transparency and explanation
- Knowledge-based data mining approaches
- Knowledge-graphs in data mining
- Interpretable models in data mining
- Role of explanations in data mining
- Inductive logic programming and data mining
- Transparent and hybrid models in data mining
- Human in the loop of the data mining process

- Role of Linked Open Data in data mining
- Applications of all of the above

## Submission

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The publication of proceedings of the SEDAMI will be part of the [Springer's CCIS](#) book series.

Please submit papers using the dedicated EasyChair. We are accepting short papers – 5-6 pages (not including references), and full papers – 10-12 pages (not including references). We are encouraging both original research papers, as well position papers. All submissions should be formatted using the Springer LNCS format.

Furthermore, we encourage tool presentations. Depending on the number of submissions, long papers will be 20-30 minutes and short papers 15-20 minutes including Q&A. For the workshop we are expecting around 20-30 participants to attend.

All submitted papers must:

- be written in English;
- contain author names, affiliations, and email addresses;
- be formatted according to the [Springer LNCS template](#);
- be in PDF (make sure that the PDF can be viewed on any platform).

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## Organising committee

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## Program committee (tentative)

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Sören Auer, Leibniz University of Hannover & TIB, Germany

Klaus-Dieter Althoff, University of Hildesheim & DFKI, Germany

Przemysław Biecek, Warsaw University of Technology, Poland

Johannes Fürnkranz, Johannes Kepler University Linz, Austria

João Gama, University of Porto, Portugal

Heiko Paulheim, University of Mannheim, Germany

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Jerzy Stefanowski, Poznan University of Technology, Poland  
Stefano Teso, KU Leuven, Belgium  
Gerhard Weikum, Max Planck Institute for Informatics, Germany  
Filip Železny, CTU, Prague, Czech Republic

We look forward to seeing you at the SEDAMI Workshop!

Sincerely,

Szymon Bobek, Martin Atzmueller, and Nada Lavrac