

🌐 Slovenia 📅 September 22-26, 2025

CONFERENCE WEBSITE: <https://ds2025.ijs.si/>

| About the Conference

We invite submissions to the 28th International Conference on Discovery Science 2025, welcoming paper submissions from all areas relevant to artificial intelligence and data science. The conference will take place in Ljubljana, Slovenia, September 22-26, 2025.

The Discovery Science 2025 conference provides an open forum for intensive discussions and exchange of new ideas among researchers working in different areas of Artificial Intelligence and the data sciences, focusing on discovering and advancing scientific knowledge. Its scope includes developing and analyzing methods for discovering scientific knowledge, coming from machine learning, data mining, intelligent data analysis, and big data analytics, as well as their application in various domains of physical, life, environmental, natural and social sciences.

*** Aims and Scope ***

The conference's relevant topics include, but are not limited to:

Important Dates

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CONFERENCE
DATE
**September
22-26,
2025**

Machine Learning, including supervised learning, unsupervised learning, semi-supervised learning, self-supervised learning

Active learning, online learning, transfer learning, continual learning etc.

Reinforcement learning

AutoML, Meta-Learning, Planning to Learn

Representation learning for vision, text, audio, language, and other data modalities

Knowledge Discovery and Data Mining

Anomaly and Outlier Detection

Learning from Complex Data

Data Streams, Evolving Data, Change Detection & Concept drift

Time-Series Analysis

Spatial, Temporal and Spatio-temporal Data Analysis

Unstructured Data Analysis (textual and web data)

Learning on graphs and other topologies

Complex Network Analysis

Causal Modeling and reasoning

Neuro-symbolic learning & hybrid AI systems (logic & formal reasoning, etc.)

Physics-informed machine learning

Computational equation discovery and Symbolic Regression

Data and Knowledge Visualization

Explainable AI and Interpretable Machine Learning

Human-Machine Interaction for Knowledge Discovery and Management

AI and High-performance Computing, Grid and Cloud Computing

Optimization

AI Creativity

Process Discovery and Analysis

Evaluation of Models and Predictions in Discovery

Setting

Applications of the above techniques in scientific domains, such as Physical sciences (e.g., materials sciences, particle physics), Life sciences (e.g., biology, medicine, neuroscience etc.), Environmental sciences, Natural and social sciences

This year's edition of Discovery Science welcomes works that focus on the following themes that will be the subject of special sessions within the conference:

Explainable AI for Science

Symbolic Regression for Science

Semantic Technologies for Science

Foundation Models for Science

Physics-informed Methods for Science

In addition to the main track, the conference will also host parallel one-day events, with topics focusing on specific applications of AI to different scientific disciplines. Please check ai4science.ijs.si for more details.

*** IMPORTANT DATES ***

Submission starts: April 1, 2025

Abstract submission deadline: May 17, 2025

Full paper submission deadline: May 24, 2025

Deadline for review submission: June 24, 2025

Notification of acceptance: July 7, 2025

Camera-ready version, author registration: July 18, 2025

All dates are specified as 23:59:59 SST (Standard Samoa Time / Anywhere on Earth)

*** Submission Procedure ***

Contributions, written in English, must be formatted according to the guidelines of the Lecture Notes of Computer Science (LNCS) series by Springer-Verlag, which are available together with templates here. DS 2025 will use The Microsoft CMT service to manage the peer-reviewing process for this conference.

Please submit your contributions here
<https://cmt3.research.microsoft.com/DS2025/>

*** Proceedings ***

The conference proceedings will be published by Springer in the Lecture Notes of Computer Science (LNCS). The page limit for the contributions submitted to the main conference is 15 pages in the LNCS format (note that 15 pages in LNCS format is roughly equivalent to 8 pages in NeurIPS format). This includes figures, title pages, references, and appendices.

*** Dual submissions policy ***

Papers submitted should report original work. DS 2025 will not accept any paper that, at the time of submission, is under review or has already been accepted for publication in a journal or another conference. Authors are also expected not to submit their papers elsewhere during the review period. The dual submissions policy applies during the whole DS 2025 reviewing period.

*** Reproducible research papers ***

Authors are encouraged to adhere to the best practices of Reproducible Research (RR), by making available data and software tools for reproducing the results reported in their papers. Authors may flag their submissions as RR and make software and data accessible to reviewers and to the program committee who will verify the accessibility of software and data. For the sake of persistence and proper authorship attribution, we require the use of standard repository hosting services such as Dataverse, mldata.org, OpenML, etc. for data sets, and mloss.org, Bitbucket, GitHub, etc. for source code. If data or code gets updated after the paper is published, it is important to enable researchers to access the versions that were used to produce the results reported in the paper.

TOPICS OF INTEREST

1 topics

Research papers are invited in, but not limited to, the following areas:

- Artificial
 - Intelligence & Machine Learning

