

| About the Conference

This workshop aims to foster interdisciplinary collaboration between the fields of data science and psychology, addressing the growing need for advanced computational methods in psychological research. The key objectives of the workshop include investigating the limitations for drawing conclusions from analyses of behavioral data to subjective experience, highlighting innovative applications of machine learning, data mining, and statistical modeling in understanding human behavior and cognition, promoting the integration of domain knowledge from psychology with advanced data science techniques to tackle complex research questions, and encouraging discussions on ethical considerations, reproducibility, and fairness in the analysis and interpretation of psychological data.

Scope

This workshop aims to foster interdisciplinary collaboration between the fields of data science and psychology, addressing the growing need for advanced computational methods in psychological research. The key objectives of the workshop include:

Important Dates

 CONFERENCE DATE
June 10-13, 2025

- Highlighting innovative applications of machine learning, data mining, and statistical modeling in understanding human behavior and cognition
- Promoting the integration of domain knowledge from psychology with advanced data science techniques to tackle complex research questions
- Encouraging discussions on ethical considerations, reproducibility, and fairness in the analysis and interpretation of psychological data
- Investigating the limitations for drawing conclusions from analyses of behavioral data to subjective experiences

The workshop will cover a broad range of topics at the intersection of data science and psychology, including but not limited to:

- Predictive modeling of psychological traits and mental health outcomes using structured and unstructured data
- Causal inference techniques for understanding relationships between psychological factors and behavioral patterns
- The analysis of large-scale psychological and behavioral datasets, including surveys, social media data, and sensor-based monitoring
- Challenges in data collection, preprocessing, and representation specific to psychological studies
- Methodological innovations in the application of data mining and machine learning techniques to address psychological theory and practice
- Ethical considerations in the use of sensitive human data, including issues of privacy, bias, and consent
- Description of the gap between objective behavioral data and subjectively experienced mind processes

All accepted paper contributions will be published in the Lecture Notes in Computer Science series by Springer-Verlag.

Submissions will undergo a single-blind review process; author identities are known to reviewers. The conventional reviewing process favors incremental advances on established work and can discourage the kinds of papers that IDA 2025 aims to publish. The reviewing process will address this issue explicitly: referees will evaluate papers based on novelty, technical quality, potential impact, and clarity. Furthermore, each submission will be reviewed by one of the senior program committee (SPC) members. Any paper for which an SPC makes a convincing argument about how it addresses the symposium's goals will be accepted independent of the overall review score.

Formatting instructions

Contributions written in English must be formatted according to the guidelines of the Lecture Notes of Computer Science (LNCS) series by Springer-Verlag. These guidelines, along with templates, are available here:

<https://www.springer.com/gp/computer-science/lncs/conference-proceedings-guidelines>.

We strongly recommend using the LNCS template for LaTeX. The page limit for any contribution, including figures, title pages, references, and appendices, is 12 pages in LNCS format.

Submission of the camera-ready version of the paper has to include the authors' consent to publish on the above Springer LNCS website.

Authors may not submit any paper that is under

review elsewhere or that has been accepted for publication in a journal or another conference; neither will they submit their papers elsewhere during the review period of MAP 2025. The authors, their contact information, or affiliations may not be changed after the paper submission deadline. If the paper is accepted, at least one of the authors must register for the Workshop and present the paper in person in Sydney.

TOPICS OF INTEREST

3 topics

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

Data Science & Analytics

Social Sciences

Artificial
 Intelligence & Machine Learning