

CFP

ISIC 2025: International Semantic Intelligence Conference 2025

University of Lübeck

Lübeck, Germany, October 6-8, 2025

Conference website	https://www.ifis.uni-luebeck.de/~groppe/isic/
Submission link	https://easychair.org/conferences/?conf=isic-2025
Abstract registration deadline	July 31, 2025
Submission deadline	July 31, 2025

Topics: [artificial intelligence and machine learning](#) [knowledge representation and semantic engineering](#) [case studies and tools](#) [multimodal and multilingual computing](#)

The International Semantic Intelligence Conference (ISIC) is an international platform for the Artificial Intelligence, Machine Learning and the Semantic Web communities. It presents a forum to publish cutting edge research results in intelligent applications.

Due to many technological trends like IoT, Cloud Computing, Smart Devices, huge data is generated daily and at unprecedented rates. Traditional data techniques and platforms do not prove to be efficient because of issues concerning responsiveness, flexibility, performance, scalability, accuracy, and more. To manage these huge data sets and to store the archives for longer periods, we need granular access to massively evolving data sets. Addressing this gap has been an important and well recognized interdisciplinary area of Computer Science. A machine will behave intelligently if the underlying representation scheme exhibits knowledge that can be achieved by representing semantics.

Semantic Intelligence refers to filling the semantic gap between the understanding of humans and machines by making a machine look at everything in terms of object oriented concepts as a human look at it. Semantic intelligence helps us make sense of the most vital resource, i.e., data; by virtue of making it interpretable and meaningful. The focus is on information as compared to process. To whatever application, the data will be put to; it is to be represented in a manner that is machine-understandable and hence human-usable. All the important relationships (including who, what, when, where, how and why) in the required data from any heterogeneous data source are required to be made explicit.

The Artificial Intelligence technologies, the Machine Intelligence technologies, and the semantic web technologies together make up the Semantic Intelligence Technologies (SITs). SITs have been found as the most important ingredient in building artificially intelligent knowledge based systems as they aid machines in integrating and processing resources contextually and intelligently. ISIC aims to bring together researchers, practitioners and industry specialists to discuss, advance, and shape the future of intelligent systems by virtue of machine learning and semantic technologies.

Submission Guidelines

The submissions are divided into three tracks, namely the Research Track, the Trends and Perspectives Track, and the Use Cases Track. Every paper will be assessed by the track chair and reviewed by at least three program committee members. The contributors are advised to choose the track that best suits their work. The contributions should be related to any one of the three disciplines namely Artificial Intelligence, Machine Learning, or Semantics for Data and the Web; or their intersection.

- Submissions in all tracks must be in English with the following page length (pages of around 400 words each):
 - Full papers (12-16 pages including references)
 - Short papers (6-8 pages including references)

List of Topics

Semantic Web Engineering | Large Language Models | Agentic AI | Ontology-based Data Access | Multimodal and Multilingual Access | Machine to Machine Communications and Interoperability | Knowledge Extraction and Ontology Learning from the Web | Multimodal and Multilingual Approach to Computing | Computational Paradigms and Computational Intelligence | Intelligent Computing and Applications, Case Studies and Tools | Artificial Intelligence and Machine Learning | Contributions of Semantic Web Technologies (SWT) to the Society | Cyber-Physical Systems | Knowledge representation and Engineering | Security Issues in Semantic Web | Applications, Opportunities, Challenges | Reasoning and Intelligent Processing (Semantic Search Paradigms, Semantic Web Mining, Semantic Sentiment Analysis, Semantic Web Services, Visualization, Query Answering, Semantic Information Access) | Mapping Knowledge bases | Leveraging Artificial Intelligence in Global Epidemics | Human-Computer Interaction | Data Analytics | Social Networks | Distributed and Mobile Systems | Computational Linguistics | Large Scale and Complex Information Management | Any other related topic...

Committees

Advisory Committee

- Bharat K. Bhargava, Professor, Purdue University, United States
- Maria-Esther Vidal, Leibniz University of Hannover, Germany
- Declan O'Sullivan, Trinity College Dublin, Dublin, Ireland
- Veljko Milutinovic, University of Belgrade, Serbia

General Chairs

- Sarika Jain, National Institute of Technology, Kurukshetra, Haryana, India
- Sven Groppe, University of Lübeck, Germany

Track PC Chairs

- Valentina Janev, Institute Mihajlo Pupin, University of Belgrade, Serbia
- Jinghua Groppe, University of Lübeck, Germany

Program committee

- coming soon

Venue

The conference will be held from October 6th to October 8th, 2025, in the University of Lübeck, Germany.

Contact

All questions about submissions should be emailed to jasarika@nitkkr.ac.in, sven.groppe@uni-luebeck.de, valentina.janev@institutepupin.com and jinghua.groppe@uni-luebeck.de