

## 3<sup>rd</sup> Conference on Intelligent Systems and Information Technologies

Artificial Intelligence Impact on Physical Sciences and Medicine

Building on the success of previous editions, including ISIT 2024's focus on Logic, Knowledge, and Reasoning, this year's conference will explore AI's powerful, transformative role across disciplinary boundaries. With a strong emphasis on real-world applications and interdisciplinary collaboration, ISIT 2025 will delve into how AI accelerates scientific discovery, revolutionizes healthcare, and reshapes our understanding of human behaviour and social systems.



**Siedlce, POLAND**

**24-26<sup>th</sup> September 2025**

## CONFERENCE TOPICS

### 1. AI in Physical Sciences

- AI-driven Discovery in Physics, Chemistry, and Materials Science
- Surrogate Modelling and Scientific Simulation
- AI for Climate Modelling and Earth Observation
- Machine Learning for Quantum Systems and Experimental Physics
- Robotics and Automation in Scientific Research
- Vision Systems for Laboratory Instrumentation
- Data-Driven Approaches in Physical Experimentation

### 2. AI in Medicine and Healthcare

- Deep Learning in Medical Imaging and Diagnostics
- Predictive Models in Epidemiology and Public Health
- AI for Genomics and Precision Medicine
- Intelligent Drug Discovery and Molecular Design
- Clinical Decision Support Systems
- AI for Assistive Technologies and Rehabilitation
- NLP for Medical Records and Patient Communication

### 3. AI in Social Sciences and Society

- Computational Social Science and Behavioural Modelling
- AI for Policy Analysis and Decision-Making
- Predictive Analytics in Economics, Law, and Education
- Sentiment Analysis and Opinion Mining in Social Media
- Agent-Based Modelling for Social Simulations
- Bias, Fairness, and Transparency in Sociotechnical Systems
- Human-Centred AI and Ethical Implications in Social Contexts
- AI for Social Good: Crisis Response, Poverty Reduction, and Education Access

### 4. Core Methods and Theoretical Foundations

- Logic and Reasoning for Intelligent Systems
- Formal Verification and Safety of AI Systems
- Hybrid and Nature-Inspired Architectures
- Deep Learning, Reinforcement Learning, and Self-Adaptive Systems
- Planning, Scheduling, and Autonomous Reasoning
- Multi-Agent and Distributed Intelligent Systems
- Ontologies, Knowledge Representation, and Semantic Technologies

### 5. Intelligent Systems in Practice

- Smart Devices, Wearables, and Embedded AI
- Sensor Networks in Health, Science, and Urban Monitoring
- Big Data Analytics in Cross-Disciplinary Research
- AI and the Internet of Things (IoT)
- Natural Language Interfaces for Inclusive Technology
- Intelligent Solutions for People with Special Needs
- Ethical, Legal, and Societal Impacts of AI Integration

We are waiting for paper submission via Internet up to

**15<sup>th</sup> July 2025**

The submissions are handled only through the EasyChair website:

**[easychair.org/conferences/?conf=isit2025](https://easychair.org/conferences/?conf=isit2025)**

Submissions must present original, unpublished research relevant to the conference scope. Authors are invited to submit extended abstracts (5–6 pages) as an initial contribution. All submissions will undergo a rigorous peer-review process evaluating originality, technical merit, relevance, and clarity.

Accepted works will be published in the conference proceedings and considered for indexing in leading scientific databases. Submission guidelines and LaTeX templates will be available on the conference website.

All positively reviewed and presented papers will be published as conference materials. Selected contributions may be submitted, after further review, to Studia Informatica. Systems and Information Technology (20 ministerial points for Polish authors), ISSN: 1731-2264 ([czasopisma.uws.edu.pl/studiainformatica](http://czasopisma.uws.edu.pl/studiainformatica))



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