

Preface for the Symbolic and Generative AI for Science

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SymGenAI4Sci is the First International Workshop on Symbolic and Generative AI for Science co-located with Semantics-2025. The primary aim of this workshop is to bring together researchers, practitioners, and domain experts from diverse fields to explore the opportunities and challenges of applying Generative AI in scientific discovery, fostering discussions to advance state-of-the-art methods for hypothesis generation, data interpretation, and knowledge synthesis across disciplines. The organizing team is thankful to everyone involved in making the SymGenAI4Sci workshop 2025 a success. First, our thanks go to all the organizers of the main events and Program Committee members for ensuring a rigorous review process that led to an excellent scientific program and an average of three reviews per article. SymGenAI4Sci team is also thankful to keynote speaker Robert Tjarko Lange for their valuable contributions.

SymGenAI4Sci 2025 workshop has received 6 papers and accepted 5 papers after a rigorous reviewing process, 4 regular papers and 1 short papers. Each paper was reviewed by three reviewers with different backgrounds. The following papers were accepted for final publication and presented at the workshop:

- DeepResearch^{Eco}: A Recursive Agentic Workflow for Complex Scientific Question Answering in Ecology
- Investigating Symbolic Triggers of Hallucination in Gemma Models Across HaluEval and TruthfulQA
- Ontology Enrichment of Video Games with LLMs
- Chebifier 2: An Ensemble for Chemistry
- Abstract Argumentation Frameworks Extraction for Dispute Resolution in Scientific Peer Review

Keynote Robert Tjarko Lange, Sakana.AI

Talk Title "Toward Open-Ended Agentic Discovery: LLMs as Artists, Scientists, and Evolutionary Engines"

Organizing Committee

- Sanju Tiwari, Sharda University, Delhi-NCR, India & TIB Hannover, Germany
- Jennifer D'Souza, TIB Leibniz Information Centre for Science and Technology, Germany
- Daniil Dobriy, Vienna University of Economics and Business, Vienna, Austria
- Sören Auer, Leibniz University of Hannover & TIB, Germany

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