FIZ Karlsruhe
Leibniz Institute for Information Infrastructure

FIZnews

CONTACT

Dr. Babett Bolle
Communication
Phone +49 7247 808 513
babett.bolle@fiz-karlsruhe.de
Germany

Dr. Franziska Schneider-Willenbacher
Consultant for science communication
Phone +49 7247 808-525
franziska.schneider-willenbacher@
fiz-karlsruhe.de
Germany

Strong FIZ Involvement in SemTech4STLD'25 Workshop at ESWC 2025

Karlsruhe, 10 July 2025 — The 3rd International Workshop on Semantic Technologies for Scientific, Technical and Legal Data (SemTech4STLD'25) was held on June 1, 2025, in Portorož, Slovenia, as part of the Extended Semantic Web Conference (ESWC 2025). The workshop brought together researchers and practitioners from diverse domains to explore how Semantic Web technologies, AI, and Natural Language Processing can help unlock knowledge from complex scientific, technical, and legal documents.

FIZ Karlsruhe played a leading role in shaping the workshop's agenda and organization. Dr. Hidir Aras and Jeenu Joy from FIZ Karlsruhe served on the organizing committee alongside former FIZ colleague Dr. Rima Dessi (now at the Higher Colleges of Technology, UAE) as well as Danilo Dessi (University of Sharjah, UAE) and Francesco Osborne (The Open University, UK)

Their expert contributions helped define a compelling and timely program that reflected the growing need for semantic enrichment and analysis of domain-specific data.

The workshop opened with a keynote by Prof. Dr. Paul Groth, who addressed the challenges of evaluating generative AI in the context of scientific and technical content. His insights sparked lively discussion on the reliability and performance of AI systems for professional applications.

Seven peer-reviewed presentations followed, showcasing research on a wide range of topics including natural language access to building information models (BIM), biomedical entity linking, and benchmarking large language models for classifying content related to the UN Sustainable Development Goals.

With the increasing volume and complexity of scientific, technical, and legal data, there is a pressing need for intelligent methods that make such information more accessible and actionable. The SemTech4STLD'25 workshop provided a valuable forum for sharing approaches that combine structured knowledge representation with deep learning and language models — a direction in which FIZ Karlsruhe continues to play a leading role.

Several FIZ experts also supported the program committee, including Ahmad Alrifai, Dr. Lei Zhang, and former colleague Dr. Rene Hackl-Sommer (now with DeepL SE), contributing to a robust review process and the high quality of the selected papers.

SemTech4STLD'25 once again demonstrated how interdisciplinary collaboration and shared infrastructure efforts are vital for advancing knowledge extraction in complex domains. The workshop series continues to grow as a platform for innovation in this evolving field.

The proceedings have been published here: https://ceur-ws.org/Vol-3979/.

Press Contact

Communication
Dr. Babett Bolle
Phone +49 7247 808 513
babett.bolle@fiz-karlsruhe.de

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Dr. Franziska Schneider-Willenbacher
Phone +49 7247 808-525
franziska.schneider-willenbacher@
fiz-karlsruhe.de

More Information
FIZ Karlsruhe – Leibniz Institute
for Information Infrastructure
Hermann-von-Helmholtz-Platz 1
76344 Eggenstein-Leopoldshafen
Germany
Phone +49 7247 808 0
E-Mail
contact@fiz-karlsruhe.de

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