

SCHEDULE

Knowledge Graphs and Semantic Web Conference 2025 November 26-28, 2025

November 26, 2025

9:00 – 17:00 Central European time (CET)

HTWK, Leipzig, Germany

9:30 – 9:40	Opening Ceremony KGSWC 2025 Chairs
9:40 – 10:10	Keynote Talk by Hans-Christian Brockmann 15 years in knowledge graphs - a business perspective
10:10 – 10:40	Break
	Conference Day 1 Session 1 (20 + 10 minutes Q/A)
10:40 – 11:10	Emma Chappell, Justin Whorton, Adria Abella Villafranca, Reza Shahriari, Scott C. Brakenridge, Judy L. Bennett, Songthip Ounpraseuth, Eric D. Ragan, William R. Hogan, Jonathan Bona, Kevin W. Sexton and Mathias Brochhausen Generation of Interactive Knowledge Graphs to Enable Research of the Effects of Trauma Center Organization on Patient Outcomes
11:10 – 11:40	Jan-David Stütz, Oliver Karras, Allard Oelen and Sören Auer A User-Centered Neuro-Symbolic Approach for Knowledge Graph Creation from Text
11:40 – 12:10	Aleksandr Gashkov, Maria Eltsova, Aleksandr Perevalov and Andreas Both Towards dynamically generated KGQA benchmarks for memorization-resistant evaluations

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12:10 – 12:30

Sponsors Talk

12:30 – 13:30

Break – Lunch

Conference Day 1

Session 2 (20 + 10 minutes Q/A)

13:30 – 14:00

Shusaku Egami, Kyoumoto Matsushita, Takanori Ugai and Ken Fukuda
Comparison of Metadata Representation Models for Knowledge Graph Embeddings **ONLINE**

14:00 – 14:30

Huan Chen, Gareth Jones and Rob Brennan
EmbER: A Neuro-Symbolic Method for Entity Comparison and Ranking in Text-Rich Knowledge Graphs

14:30 – 15:00

Abdoulaye Diallo, Claudia D'Amato and Mouhamadou Thiam
A semi-automatic approach to validating ontology alignments based on LLMs and KGs

15:00 – 15:20

Break

15:20 – 15:50

Abdelkader Ouared and Ahmed Ala Eddine Benali
FarmerLikeMe: A Framework for Goal and Risk-Aware Agricultural Decision Support **ONLINE**

15:50 – 16:20

Edenys Denis González, Lisandra Díaz de la Paz, José Antonio Senso Ruiz, Amed Abel Leiva Mederos and Alberto Taboada Crispi
Author Name Disambiguation in LAGOS-AND using a Hybrid Approach **ONLINE**

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9:30 – 9:40

Conferences Day 2 Opening

Session 3

9:40 – 10:10

Charly Bernard, Nathalie Abadie, Bertrand Duménieu and Julien Perret

Reconstructing the Temporal Evolution of Geographic Entities from Fragmentary Knowledge

10:10 – 10:40

James Nevin and Ryutaro Ichise

Knowledge Graphs in the Real-World: Noisy Data and Embedding-Based Entity Alignment Algorithms

10:40-11:10

Claudia D'Amato, Giuseppe Rubini, Fatima Zahra Amara and Nicola Fanizzi

A Bottom-Up Framework for Legal Knowledge Graph Construction: A Case Study on Gender-Based Violence

11:10–11:30

Break

11:30-12:00

Anmol Saini, Chris Davis Jaldi, Jeffrey Ethier and Cogan Shimizu

Research Directions for Ontology-Guided Domain-Specific Knowledge Graph Population Using LLMs

12:00 – 12:30

Younes Hamdani and Ezgi Türkarslan

Bridging Property Graphs and Knowledge Graphs: A Category Theory Approach to Interoperable Graph Transformation

12:30 – 13:30

Break - Lunch

Conferences Day 2

Session 4

SCHEDULE

13:30 – 14:00

Xianhao Liu, Sven Hertling and Michael R. Hansen
Beyond Equivalence: Benchmark Datasets for Ontology Alignment

14:00 – 14:50.

Keynote by Prof Dr. Soren Auer
From Neuro-symbolic to Agentic AI

14:50 – 15:10

Break

15:10 – 15:30

Sponsors Talk

15:30 – 16:00

Chris Davis Jaldi, Anmol Saini, Elham Ghiasi,
Oluomachukwu Divine Eziolise and Cogan Shimizu
Knowledge Conceptualization Impacts RAG Efficacy

16:00 – 16:50

Keynote by Prof Dr. Maria-Esther Vidal
Neuro-Symbolic AI for Biomedicine: Integrating Semantics and Causality for Trustworthy Scientific Discovery
ONLINE

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9:30 – 9:40

Opening Conference Day 3

Session 5

9:40 – 10:10

Bharath Chand, Thara Prabhakaran and Sanju Tiwari
Context Specific Refinement of Protein Interaction Network for Knowledge Graph Completion

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10:10 – 10:40 **Muhammad Ismail, Abid Ali Fareedi and Mian Hammad Nazir**
Ontop-driven Federated Virtual Knowledge Graphs: A Robust Framework to Revolutionizing Fragmented Battery Data Integration

10:40 – 11:10 **Aija Valleala, Heikki Rantala, Jouni Tuominen and Eero Hyvönen**
Using Legislative Change History of Statutes Based on a Linked Open Data Knowledge Graph

11:10 – 11:40 **Sponsors Talk**

11:40 – 12:40 **Break – Lunch**

Conference Day 3

Session 6

12:40 – 13:10 **Henna Poikkimäki, Petri Leskinen and Eero Hyvönen**
Tools for Analyzing Aggregated Knowledge Graphs on a Global Level for Better Data Literacy: Case LetterSampo Finland

13:10 – 13:40 **Ahlem Rhayem and Diana Peters**
How ontology can improve explainable AI techniques: A review of existing approaches and a proposed roadmap in the Information Extraction area **ONLINE**

13:40 – 14:10 **Victor Wang, Ricky Sun and Jason Zhang**
Breaking the Latency Barrier: Real-time Incremental Community Detection with Live Graph Data on a Unified Graph Database Framework

14:10 – 15:00 **Keynote Talk by Prof Dr. Sahar Vahadati**
AI for Science

15:00 – 15:20 **Closing KGSWC 2024**
