

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

9:200 – 9:40

Opening Ceremony KGSWC 2025

Chairs and Prof. Dr. Jean-Alexander Müller (Rector) HTWK

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

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

11:40 – 12:10

Aleksandr Gashkov, Maria Eltsova, Aleksandr Perevalov and Andreas Both

Towards dynamically generated KGQA benchmarks for memorization-resistant evaluations

SCHEDULE

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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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

Jan-David Stütz, Oliver Karras, Allard Oelen and Sören Auer

A User-Centered Neuro-Symbolic Approach for Knowledge Graph Creation from Text

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

SCHEDULE

**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

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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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

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

Victor Wang, Ricky Sun and Jason Zhang

13:40 – 14:10



eccenca
mastering complexity



HTWK

Hochschule für Technik,
Wirtschaft und Kultur Leipzig

SCHEDULE

	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



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