KGMDSE

Workshop@ ISWC BARI 2026

Knowledge Graphs *and* Model-driven Systems Engineering

https://www.omilab.org/activities/events/ iswc2026_kgmdse/

Submission Deadline
24 July 2026

Decision Notification
21 August 2026

Bari, Italy
25-26 October 2026

Workshop Chairs:
Robert Buchmann, Babeș-Bolyai University, Romania
Dimitris Karagiannis, University of Vienna, Austria
Dimitris Plexousakis, Institute of Computer Science (FORTH), University of Crete, Greece

Workshop Program Committee
Full Details on the Workshop Page.

Relevant Topics:

- Model-driven integration of KGs and LLMs
- Enterprise models completion, alignment and enrichment based on KG techniques
- Enterprise models for orchestration and delegation in Agentic AI
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- KGs as mediators for metamodeling and LLMs
- Information Systems engineering methods based on KGs
- Visual syntaxes and low-code approaches to building KGs
- Model-driven Context Graphs and context engineering
- KG-based Enterprise Architecture and Business Process Management
- Requirements engineering, system design and analysis augmented by KGs
- KGs for model-based Digital Twins
- Linking and transforming domain-specific diagrammatic models with KGs
- Enriching KGs with domain-specific and enterprise models
- Empirical studies and experience reports

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GOAL: Cross-over event to stimulate convergence between the communities focusing on Knowledge Graphs (KGs) and those working on Model-driven Engineering of Information Systems. The initiative is motivated, among other factors, by the emerging notion of „Context Graphs“ highlighting the importance of traceable decision-making and process knowledge, something that has been traditionally captured through enterprise modeling languages. The recent uptake of the Agentic AI paradigm, with renewed interest in workflow orchestration and contextualized delegation, further suggests a growing relevance of this convergence.

FOCUS: To investigate mutual support and convergence between enterprise modeling methods, model-driven engineering practices and KG-based AI systems.

OBJECTIVES:

- Investigate the place of KGs in the semantics-driven systems engineering paradigm
- Explore how enterprise modeling and context graphs can contribute to KG-based agentic AI
- Discuss application scenarios and systems engineering methods benefiting from KGs

Submission via Easychair (in CEURART 1-column format) of

- **FULL PAPERS** which can be regular research or experience papers (9-12 pages) or
- **SHORT PAPERS** which can be position or vision papers (6-8 pages)

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