



# **14<sup>th</sup> International Joint Conference on Knowledge Graphs**

15-17 October 2025  
Heraklion, Crete, Greece

Venue: FORTH Main Building, Amphitheater

## **Detailed Program**





## Day 1 (15 October 2025)

8:45-9:15	Arrival and Registration	
9:15-9:30	<b>Welcome</b> from the General Chairs	
9:30-9:45	<b>Welcome</b> from the Director of FORTH-ICS, <i>Panagiotis Tsakalides</i>	
9:45-10:45	<b>Keynote Speech</b> <i>Katja Hose, <b>Sharp Edges in a Fuzzy World: Knowledge Graphs and LLMs</b></i>	
10:45-11:15	<b>Coffee Break</b>	
11:15-12:55	<b>P1 Session</b>	
	11:15-11:40	<i>Tapio Pitkäranta and Eero Hyvönen. <b>Semantic Web – A Forgotten Wave of Artificial Intelligence?</b></i>
	11:40-12:05	<i>Efstratios Skaperdas and Nick Bassiliades. <b>Ontology-Aware Relation Prediction over EurostatKG: A Unified Neural Framework</b></i>
	12:05-12:30	<i>Divya Baura and Diego Calvanese. <b>User Access Control in Policy-Protected Virtual Knowledge Graphs</b></i>
	12:30-12:55	<i>Jaime Osvaldo Salas, Paolo Pareti, Semih Yumusak, Soulmaz Gheisari. <b>Luis-Daniel Ibáñez and George Konstantinidis, Evaluation and Comparison Semantics for ODRL</b></i>
12:55-13:00	<b>Group photo at the entrance of the building</b>	
13:00-14:00	<b>Lunch Break</b>	

14:00-15:40	<b>P2 session</b>	
	14:00-14:25	Zhongtian Sun, Anoushka Harit, Alexandra Cristea, Christl Donnelly and Pietro Liò. <b>GLANCE: Graph Logic Attention Network with Cluster Enhancement for Heterophilous Graph Representation Learning</b>
	14:25-14:50	Rosario Napoli, Giovanni Lonia, Antonio Celesti, Massimo Villari and Maria Fazio. <b>Bi-View Embedding Fusion: A Hybrid Learning Approach for Knowledge Graph's Nodes Classification Addressing Problems with Limited Data</b>
	14:50-15:15	Jiafeng Xiong and Rizos Sakellariou. <b>Trajectory Encoding Temporal Graph Networks</b>
	15:15-15:40	Shu Zhao, Ying Zha, Ziwei Du, Huanjing Zhao, Xingsheng Lu, Ao Liu, Jie Chen and Zhen Duan. <b>MugraTAG: Multi-granularity Representation Learning on Text-Attributed Graphs</b>
15:40-16:00	<b>Coffee Break</b>	
16:00-16:30	<b>Invited Talk</b> Manolis Koubarakis. <b>Question answering over geospatial knowledge graphs</b>	
16:30-18:00	<b>Young Researchers Forum</b>	
	16:30-16:50	Jiaoyan Chen. <b>Embedding Complex Knowledge: From Geometric to Language Models</b>
	16:50-17:10	Vasilis Efthymiou. <b>Semantic Enrichment of Data Using Knowledge Graphs</b>
	17:10-17:30 (remote)	Ningyu Zhang. <b>Knowledgeable Agents</b>
	17:30-18:00	Panel
18:00	<b>Close of Day 1</b>	

## Day 2 (16 October 2025)

09:30-10:00	<b>Keynote Speech</b> <i>Kang Liu. Shuttle between Symbolic Knowledge and Neural Parameters</i>	
10:30-11:00	<b>Coffee Break</b>	
11:00-13:05	<b>P3 session</b>	
	11:00-11:25	<i>Julien Corman, Diego Calvanese, Ognjen Savkovic, Antonella Poggi, Maurizio Lenzerini, Lorenzo Marconi, Gianluca Cima and Roberto Maria Delfino. Answering MetaQueries over RDFS Ontologies under the Sparql Metamodeling Semantics Entailment Regime</i>
	11:25-11:50	<i>Milos Jovanovik, Marija Vecovska, Maxime Jakubowski and Katja Hose. RDFGraphGen: An RDF Graph Generator based on SHACL Shapes</i>
	11:50-12:15	<i>Ivan Gocev, Georgios Meditskos and Nick Bassiliades. Explaining Ontology Alignments via Abductive Graph Isomorphisms</i>
	12:15-12:40	<i>Romuald Esdras Wandji and Diego Calvanese. Realizing Bidirectional Virtual Knowledge Graphs Using Ontop</i>
	12:40-13:05	<i>Sophia Sideri, Iosif Oikonomakis, Petros Tsirmakos, Giorgos Flouris, Vasilis Efthymiou, Dimitrios Rompogiannakis, Elias Kyritsis, Ioanna Leonidaki and Andreas Zezas. HECATE at the Crossroads: Guiding Astrophysics into the Semantic Web</i>
13:05-14:00	<b>Lunch Break</b>	

14:00-15:40	P4 session		
	14:00-14:25	Zhiyu Pan, Yongli Mou, Fengshuo Hao, Yuting Gao, Stefan Decker and Antonello Monti. <b>Semantic Annotation of Energy Data Using Ensemble Decision-Making with Large Language Models</b>	
	14:25-14:50	Georgios Balanos, Evangelos Chasanis, Konstantinos Skianis and Evaggelia Pitoura. <b>KGRAG-Ex: Explainable Retrieval-Augmented Generation with Knowledge Graph-based Perturbations</b>	
	14:50-15:15	Zihao Song, Huang Peng. Weixin Zeng and Xiang Zhao. <b>RANA: Conflict Resolution for Knowledge Graphs with Better Representation learning</b>	
	15:15-15:40	Yannis Tzitzikas and Haridimos Kondylakis. <b>Knowledge Graphs and Quantum Computing: First Blood</b>	
15:40-16:00	Coffee Break		
Parallel Sessions			
16:00-18:00	Education Track		Workshop Knowledge Graphs in Cultural Heritage (& CRM SIG). “Stelios Orphanoudakis” Meeting Room
	16:00-16:20	Constance Jumbo, Rashed Al Amin, Hasan Abu Rasheed, Veit Wiese, Christian Weber and Roman Obermaisser. <b>A Knowledge Graph-Based Approach for Personalized Course and Curriculum Path Recommendation</b>	16:00-17:00 Tutorial Yannis Marketakis. <b>Building Interoperable Knowledge Graphs with X3ML Framework</b>
	16:20-16:35	(short) Amir Rajabi, Jan Schnieder and Daniel Schiffner. <b>Conceptual Design Considerations of a Knowledge Graph–Driven Framework for Scientific Knowledge Exploration</b>	17:00-17:15 Nicolò Pratelli, Emanuele Lenzi and Valentina Bartalesi. <b>Connecting Cultural Heritage Through Knowledge Graphs: A Case Study on Medieval Manuscripts</b>
	16:35-16:50	(short) T.Y. Emmy Lai, Ann-Kathrin Bernards,Dena Baghery, Marlena Flüh, Tobias Lang. <b>Héctor Allende-Cid and Diego Collarana. ABEL:</b>	17:15-17:30 Alexandros Makris, Ioanna Demeridou, Panagiotis Koutlemanis, Anastasios Roussos, Nikolaos Partarakis and Xenophon Zabulis.

		<b>Artificial Buddy for Effective Learning.</b>		<b>A Knowledge Graph-Driven Interactive 3D Simulation for Craft Training.</b>
	<b>16:50-17:00 (remote)</b>	<i>Qurat Ul Ain, Mohamed Amine Chatti, Jean Qussa, Amr Shakhshir, Rawaa Alatrash and Shoeb Joarder.</i> <b>An Optimized Pipeline for Automatic Educational Knowledge Graph Construction</b>	<b>17:30-17:45</b>	<i>Gerald Hiebel and Brigit Danthine.</i> <b>A Knowledge Graph for Archaeological Research based on CIDOC CRM with latest extensions implemented with RDFstar and Named Graphs.</b>
	<b>17:00-17:10 (remote)</b>	<i>Rawaa Alatrash, Mohamed Amine Chatti, Nasha Wibowo and Qurat Ul Ain.</i> <b>Inferring. Prerequisite Knowledge Concepts in Educational Knowledge Graphs: A Multi-criteria Approach.</b>	<b>17:45-18:00</b>	<i>Georgia Angelaki.</i> <b>Knowledge Representation of Intangible Cultural Heritage according to the UNESCO 2003 Convention definition.</b>
	<b>Evaluation Track</b>			
	<b>17:10-17:20</b>	<i>Jeff Pan.</i> <b>Archer: Bilingual Reasoning-aware Text-to-SQL Evaluation</b>		
	<b>17:20-18:00</b>	<i>Marianne Menglin Liu, Sai Ashish Somayajula, Syed Fahad Allam Shah and Dan Roth.</i> <b>OraPlan-SQL: A Planning-Centric Framework for Complex Bilingual NL2SQL Reasoning</b>		
<b>18:00</b>	<b>Close of Day 2</b>			
<b>20:00</b>	<b>Social Dinner</b>			

## Day 3 (17 October 2025)

09:15-10:30	<b>P5 session</b> (In Use 1/2)	
	9:15-9:40	<i>Dessislava Petrova-Antonova, Paolo Pareti, Petar Tomov, Semih Yumusak, Christopher Maidens, Shanshan Jiang, George Konstantinidis and Dumitru Roman.</i> <b>Knowledge Graph-Driven Policy Enforcement in Urban Dataspace</b>
	9:40-10:05	<i>Michalis Mountantonakis, Dimitris Papadopoulos and Yannis Tzitzikas.</i> <b>Basketball Question Answering using Knowledge Graphs and Large Language Models</b>
	10:05-10:30	<i>Sophia Sideri, Emmanouil Patronakis, Evangelos Nikiforos, Isidoros Chatzichrysos, Apostolos Baniotis, Valantis Zervos, Stavros Tzormpatzakis, Michalis Saridakis, Iosif Oikonomakis, Michalis Mountantonakis, Pavlos Fafalios and Yannis Tzitzikas.</i> <b>To Automate or not to Automate the Transcription of Ancient Earthquakes: Toward a Global Knowledge Graph about Ancient Earthquakes</b>
10:30-11:00	<b>Coffee Break</b>	
11:00-11:50	<b>P6 session</b> (In Use 2/2)	
	11:00-11:25	<i>Sophia Sideri, Vasilis Efthymiou, Dimitris Plexousakis and Haridimos Kondylakis.</i> <b>PG2RDF: Schema-Guided Transformation of Property Graphs to RDF</b>
	11:25-11:50	<i>Yannis Marketakis, Yannis Tzitzikas, Alessandro Petrocelli, Sara Pittonet Gaiarin, Siân Astley, Christine Absil, Michelle Boonstra, Tim Huntington, Tracy Murai and Nicolas Baily.</i> <b>Construction, Access, and Application of a Knowledge Base for Sustainable Aquafood Communication</b>
11:50-13:05	<b>Industrial Forum</b> (talks)	
13:05-14:00	<b>Lunch Break</b>	



14:00-15:10	Demo Papers and Posters		
	14:00-14:10	Michalis Mountantonakis and Yannis Tzitzikas. <b>TCRMQ: Question Answering by Multi-Hop SPARQL Queries over Event-Based Knowledge Graphs</b>	
	14:10-14:20	Nicolò Pratelli, Claudio De Martino, Emanuele Lenzi and Valentina Bartalesi. <b>Building Geospatial Knowledge Graphs for Cultural Heritage with the GeoLinks API</b>	
	14:20-14:30	Birte Caesar, Solveig Peter, Celsa Diaz Tejada, Matthias Werner, Oskar Krafft and Michél Mahler. <b>Process Copilot for the German Public Sector</b>	
	14:30-14:40	Paul Danielse, Shashikant Ilager and Zhiming Zhao. <b>Towards Knowledge Retrieval for Agentic Systems in the Cloud: Learning, Analysis and Control</b>	
	14:40-14:50	Giannis Vassiliou, Georgia Eirini Trouli, Nikolaos Papadakis and Haridimos Kondylakis. <b>3T: Triple Stores Triggers</b>	
	14:50-15:00	Gabriel Dumont, John Puentes and Pedro Merino-Laso. <b>Unsupervised Linking of Unstructured Data Entities to a Knowledge Graph</b>	
	15:00-15:10	Iakovos Giannakos, Giannis Vassiliou, Georgia Eirini Trouli, Haridimos Kondylakis and Nikos Papadakis. <b>ULYSSES: Demonstrating Automated FreqUentLY ASKed QueStions for KnowlEdge GraphS</b>	
15:10-15:30	Coffee Break & Free Discussion at the Posters		
Parallel Sessions			
16:00-17:00	Tutorial Paolo Pareti. The Shapes Constraint Language (SHACL): an Overview and its Future Directions	15:30-17:00	Workshop Quantum Computing and Data / Knowledge Management (QC&DKM) “Alkiviades Payatakes” Meeting Room
			15:30-16:30 Tutorial George Stamatiou. Introduction to Quantum Computing

			16:30-16:45 (remote)	<b>Invited Talk</b> <i>Dimitris Angelakis.</i> <b>Analog and qubit efficient quantum computing</b>
			16:45-17:00	<b>Paper</b> <i>Giorgos Theodorakis, Michalis Touloupakis and Yannis Tzitzikas.</i> <b>On Encoding Big Knowledge Graphs as Quantum States and on Running Grover's algorithm</b>
17:00-18:00 (remote)	<b>Keynote Speech</b> <i>Pascal Hitzler.</i> <b>Knowledge Graphs in the Neurosymbolic AI Age</b>			
18:00-18:15	<b>Close of Day 3</b>			



