MTSR 2025 CONFERENCE PROGRAMME

19th International Conference on Metadata and Semantics Research
December 16–19, 2025
Thessaloniki, Greece — APEC Amphitheater of Perrotis College

📍 **Venue: APEC Amphitheater of Perrotis College / American Farm School**
📌 **Address: Marinou Antypa 54, Thessaloniki 57001, Greece**
🗺️ **Google Maps: https://maps.app.goo.gl/QMmC5gyALJrRJB9w5**

A conference-arranged bus service will collect participants from designated pick-up points in Thessaloniki city centre from Wednesday 17 to Friday 19 in the morning, and will return them to the same points in the afternoon at the end of each conference day.

Co-organized by:

Perrotis College — Department of History and Philosophy of Science National and Kapodistrian University of Athens — Department of Archives, Library Science and Museology Ionian University — University College London — School of Information Kent State University — Universidad Complutense Madrid — Georg Eckert Institute for International Textbook Research — Department of Informatics, Systems and Communication University of Milano-Bicocca, Italy — Department of Library Science, Archives and Information Systems — Cyprus University of Technology

Sponsors: ReasonableGraph.org, DISIGMA PUBLICATIONS, INTEROPTICS

Awards sponsored by: euroCRIS

Tuesday, 16 December 2025

Special Session – MTSR 2025

Metadata, Ontologies, and AI for GLAM Institutions: Innovation in Art, Museum, and Music Collections, Cultural Heritage Preservation, and Libraries as Data Spaces

📍 **Venue: Dimitris and Aliki Perrotis Library**

13.30 – 14:00	**Arrival** **followed by Welcome Coffee**
14:00 – 14:30	Welcome by Emmanouel Garoufallou, International Hellenic University Damiana Koutsomiha, Perrotis College / American Farm School *Short tour in the Main Library and Archive*
	Chaired by Georgia Zafeiriou
14:30 – 14:50	**The American Farm School and Perrotis College Libraries: A GLAM example of innovation** *Damiana Koutsomiha*
14:50 – 15:00	**Libraries: dynamic cultural and educational ecosystems based on structured knowledge** *Ioana Cornelia Cristina Crihana*
15:00 – 15:20	**Implementing a metadata schema for interoperable oral history collections through mappings to Dublin Core** *Andreas Vlachidis*
15:20 – 15:40	**Language Model-Driven Approach for Metadata Extraction from Scientific Publications** ***Muhammad Asif Suryani***, *Yousef Younes, Brigitte Mathiak*
15:40 – 16:00	**Development of an Ontology-based Decision Support System for Bulgarian Traditional Medicine with Herbals** *Sonya Chimpireva,* ***Maria Nisheva-Pavlova***
16:00 – 16:20	**Developing Open-Source Solutions for GLAM Institutions, School Libraries, and the Humanities: The Reasonable Graph Platform** ***Nikos Papazis, Emmanouel Garoufallou,*** *Pantelis Brattis, Georgia Zafeiriou, Eleni Fili, Iasonas Spanopoulos, Aliki Soultani, Chrysanthi Theodoridou*
16:20 – 17:00	**Discussion and closing**

Wednesday, 17 December 2025

9:00 – 10:00	**Arrival and Registration** **followed by Welcome Coffee**
10:00 – 10:30	Day Conference Welcome by Emmanouel Garoufallou, International Hellenic University Miguel-Ángel Sicilia, University of Alcalá, General Chairs of MTSR 2025 Christos Ritzoulis, Vice President for Academic Affairs, American Farm School Kyriaki Zinoviadou, Dean of Perrotis College Zafeiriou Georgia, International Hellenic University Rania Siatri, General Hospital of Agios Nikolaos Chairs of MTSR 2025 General Information Announcements Kostouda Maria, Administrative and Resources Coordinator, Perrotis College
	Semantic Interoperability and Research Infrastructures - CIDOC CRM, Provenance and Ontological Modelling – Open repositories Chaired by Jane Greenberg
10:30 – 10:50	**Knowledge Graphs for Research Data Management: Use Cases in Germany's National Research Data Infrastructure** *Fidan Limani, Lozana Rossenova, Carsten Fortmann-Grote, Benjamin Zapilko, Atif Latif, Anja Gerber, Heike Fliegl*
10:50 – 11:10	**Leveraging LLMs to Build Text Narratives from CIDOC CRM** *Sofia Stamou, Eleftherios Kalogeros, **Matthew Damigos**, Manolis Gergatsoulis*
11:10 – 11:30	**A CIDOC CRM Based Data Model for Watermarks Documentation** *Ilektra Karageorgou, **Eleftherios Kalogeros**, Manolis Gergatsoulis, Matthew Damigos, Ilias Chrysostomidis*
11:30 – 11:50	**BERD@NFDI: Metadata Schema Specification** *Atif Latif, Fidan Limani, Klaus Tochtermann*
11:50 – 12:10	**AI Tools for Text Archive Document Management: Current State and Future Perspectives for AI Literacy Development** *Yasena Chantova, Marina Encheva, **Veselin Chantov***
12:10 – 12:30	**Representing Meta-Information in CIDOC CRM: A Case Study on Provenance Interpretation in Archaeology** ***Matthew Damigos**, Manolis Gergatsoulis, Eleftherios Kalogeros, Georgios Papaioannou*

12:30 – 13:30	**Lunch** **at the foyer of the APEC Amphitheater of Perrotis College**
	Agriculture, Food and Environment Chaired by Kyriaki Zinoviadou
13:30-13:50	**FAIR Metadata in Global Water Data: Insights from a Small-Scale Review of IHP-WINS** *Robert Bierck,* Robert Sammarco
13:50-14:10	**Multi-Temporal, Multi-Resolution, Multispectral UAV Datasets for Sunflower Development Monitoring and Early-Stage Density Estimation** *Pavel Genevski,* Kalinka Kaloyanova, Radoslav Stefanov
14:10-14:30	**A Data Model to Analyse Heterogeneous Data on Used Drinking Water: Case Study of Haute Matsiatra, Madagascar** *Jacques Aimé Razafindragy,* Vincent Armant, Lalaina Fanomezantsoa, Pierre Andrianajoro, Felipe Vargas-Rojas, Eric Delaitre, Desconnets Jean-Christophe, Aimé Richard Hajalalaina
	Digital Humanities, Cultural Semantics and Surveillance Systems Chaired by Fidan Limani
14:30 - 14:50	**Digital Repositories for STEAM Educators in an AI- and Data-Driven Educational Landscape (Agricultural Education Relevance)** *Konstantina Maidatsi,* Georgios Papaioannou
14:50 – 15:10	**Ontology Alignment for ESG Data Interoperability: A Case Study** *Giulio Macilenti,* Manuel Fiorelli, Armando Stellato
15:30	**End of the first day** **participants will gather in the foyer of the APEC Amphitheater at Perrotis College and then return to their hotels using the conference-arranged bus service**

Thursday, 18 December 2025

8:00 – 09:00	**Arrival and Registration**
	AI, LLMs and Semantic Technologies - Applied Metadata, Decision Support and Repositories Chaired by Maria Claudia Cavalcanti
09:00 – 09:20	**Machine Learning with Graphs for Incident Classification** *Kristina Arnaoudova, Maria Nisheva-Pavlova*
09:20 – 09:40	**SIMONE: Semantic Representation of Model Outputs for Scientific Knowledge Graph Enrichment** *Felipe Vargas-Rojas, Vincent Armant, Isabelle Mougenot*
09:40 – 10:00	**Semantic Query Expansion for Job Recommendation: A RAG Approach with LLMs and ESCO Ontology** *Hakim Mokeddem*
10:00 – 10:20	**Exploiting Metadata Features of Hugging Face Models to Uncover Insights and Opportunities for Open Research** *Muhammad Asif Suryani, Saurav Karmakar, Kanishka Silva, Brigitte Mathiak*
10:20 – 10:40	**Additive Manufacturing Data Integration to Enable Artificial Intelligence Based Closed-loop Control** *Antonios Kontsos and Ahmed Ben Sidhom*
10:40 – 11:00	**Coffee Break**
	AI, LLMs and Semantic Technologies - Applied Metadata, Decision Support and Repositories Chaired by Antonios Kontsos
11:00 – 11:20	**Metadata and 3D Shape Similarity: Establishing a Ground Truth Dataset** *Bahareh Shakibajahromi, Edward Kim, Jane Greenberg and* **David Breen**
11:20-11:40	**Insights into the Mapping Structure of the Human Phenotype Ontology and SNOMED CT for Deep Phenotyping** *Miguel-Angel Sicilia, Elena Garcia-Barriocanal, Marçal Mora-Cantallops, Alberto Nogales, Alberto Ballesteros, Luis Usero*
11:40 – 12:00	**ODQA: A Starting Point for Agentic Open Data Question Answering** *Lisa Wenige, Lena Tohoff, Doreen Strass*
12:00 – 12:20	**A Contextually Comprehensive Metadata Model: Bridging Simplicity and Expressiveness for GenAI-based Metadata Generation** *Burak Toptas, Richard Lenz and Rainer Groß*
12:20 – 12:40	**Metadata and metrics for cybersecurity dataset evaluation** *Thaísa S. Hernandez, Caroline D. Gandolfi, Luiz Olavo B. S. Santos, Anderson F. P. dos Santos and* **Maria Claudia Cavalcanti**
12:40 – 13:00	**Serving Data Right: A Data Steward's Guide to RDM Tool Evaluation** *Hajira Jabeen*

13:00 – 14:00	**Lunch Break** **Walk to the Aliki Perrotis Residence Hall Restaurant**
14:00 – 15.30	**Guided Tour of AFS Schools, Libraries, Museum and Archive** **Coffee in the Library Commons**
	AI, LLMs and Semantic Technologies - Applied Metadata, Decision Support and Repositories Chaired by Hakim Mokeddem
15:30 – 15:50	**Combining LLMs-based Conversational Agents and Ontologies for Open Data Research** *Antoine Dupuy, Nathalie Aussenac-Gilles, Christophe Baehr, Cassia Trojahn*
15:50 – 16:10	**Defining Axioms to Address the Cultural Snapshot Phenomenon: Introducing the Spatiotemporal States Reference Model (SStaRM)** *Spiridon Mousouris, Evangelia Kavakli, Konstantinos Kotis*
16:10 – 16:30	**LLM-Enhanced Sub-Ontology Development for Improved Interdisciplinary Discoverability in Scientific Investigation Methods and Tooling** *Nina Gialoussi, **Maria Ioanna Maratsi**, Yannis Charalabidis and Charalampos Alexopoulos*
16:45	**End of the second day** **participants will gather in the foyer of the APEC Amphitheater at Perrotis College and then return to their hotels using the conference-arranged bus service**

20:30-22:30	**Gala Dinner Venue** **Les Zazous** **All Day Seafront Bar Restaurant** 📍 **Themistoklis Sofoulis 118, Kalamaria, Thessaloniki, Greece** **Les Zazous is an all-day seafront bar restaurant located in Kalamaria, offering a relaxed atmosphere with views of the Thermaic Gulf. It is a popular venue combining Mediterranean cuisine with a modern setting.** 🔗 **Instagram: https://www.instagram.com/les.zazous/** 🗺 **Google Maps: https://maps.app.goo.gl/vdRFVRdLGvr6H1yi6**

Friday, 19 December 2025

9:30 – 10:00	**Arrival**
	Digital Libraries, Knowledge Extraction and Open Data Chaired by Miguel-Angel Sicilia
10:00 – 10:20	**An Extensible Ontology for Describing Time Series Data in an Industrial Setting** *Alexander Ebner,* **Tobias Schwarzinger,** *Gernot Steindl*
10:20 – 10:40	**ChemDCAT-AP: Enabling Semantic Interoperability with a Contextual Extension of DCAT-AP** ***Philip Strömert, Hendrik Borgelt**, David Linke, Mark Doerr, Bhavin Katabathuni, Oliver Koepler, Norbert Kockmann*
10:40 – 11:00	**Creating Access through Digital Objects: Links Between Digital Collections and Archival Finding Aids** *Ann Abney*
11:00 – 11:20	**Human-in-the-Loop and AI: Crowdsourcing Metadata Vocabulary for Materials Science** ***Jane Greenberg**, Scott McClellan, Addy Ireland, **Robert Sammarco**, Colton Gerber, Christopher B. Rauch, Mat Kelly, John Kunze, Yuan An and Eric Toberer*
11:20 – 12:00	**Coffee Break**
12:00 – 12:45	**KEYNOTE SESSION** **Keynote Speaker:** *Nikos Manouselis* Founder and CEO of Agroknow ***"My 20-Year Journey in Metadata and Semantics"*** **Moderators:** **Miguel-Ángel Sicilia**, University of Alcalá, Spain **Emmanouel Garoufallou**, International Hellenic University, Greece

13:00 – 14:15	***ROUNDTABLE*** ***on Applying Metadata and Semantics in Viticulture*** *(see MTSR2025 website for more information)* **Panelists** *The panel will feature leading experts in viticulture, wine science, and agri-food innovation:* **Stefanos Koundouras |** Associate Professor of Vineyard Natural Environment, School of Agriculture, Aristotle University of Thessaloniki **Maritina Stavrakaki |** Assistant Professor of Viticulture, Department of Crop Science, Agricultural University of Athens

Kiki Zinoviadou | Dean of Perrotis College, American Farm School
Michalis Boutaris | Vice President of Kir-Yianni Winery, responsible for viticulture, sustainability, investments, and innovation
Ilias Kalfas | Senior Researcher, The Hub, American Farm School

Moderator: Nikos Manouselis, CEO of Agroknow

Discussion Topics
– Challenges of organizing and standardizing specialized information on vines and wines
– Metadata schemas and ontologies suitable for viticulture and oenological data
– Managing diverse scientific, historical, geographic, sensory, and cultural information sources
– Linking data on vineyards, grape varieties, and wine products through semantic technologies
– The role of digital libraries, archives, and museums in preserving wine heritage
– Interoperability and integration with broader agricultural and cultural heritage repositories

This roundtable aims to highlight how metadata and semantics can enhance innovation in viticulture, support sustainable wine production, facilitate research, and preserve the cultural and scientific knowledge embedded in wine-related collections. It will provide a unique interdisciplinary bridge between information science and the world of viticulture, enriching the thematic landscape of MTSR and offering participants practical insights into a rapidly evolving field.

14:15 – 14:30	**Best Paper and Best Student Paper Awards Ceremony** **Sponsored by** EuroCRIS: The International Organisation for Research Information
	Final remarks – Closing ceremony Closing Ceremony and Announcement of MTSR 2026 Chaired by Emmanouel Garoufallou, International Hellenic University Georgia Zafeirou, International Hellenic University
14.30	**Lunch** **at the foyer of the APEC Amphitheater of Perrotis College & Farewell**
15:30	**End of the third day** **participants will gather in the foyer of the APEC Amphitheater at Perrotis College and then return to their hotels using the conference-arranged bus service**

Saturday 20 December 2025

One-Day Excursion
Saturday 20 December 2025

08:00 - 17:00

The one-day excursion offers participants an immersive cultural and educational experience, highlighting the rich historical, intellectual, and viticultural heritage of Northern Greece.

The program includes guided visits to:
- Public **Library of Veria** – An internationally recognized library known for its innovative services, exceptional community engagement, and award-winning programs. The library is a recipient of the Bill & Melinda Gates Foundation Access to Learning Award, reflecting its global impact and leadership in modern library practices.
- • **Vergina (Aigai)** – The ancient capital of the Macedonian kingdom and burial site of Philip II, father of Alexander the Great. The recently opened Archaeological Museum of Aigai is considered one of the most impressive museums in Greece, featuring the royal tombs and priceless treasures that illuminate the grandeur of the Macedonian dynasty.

• **Kir-Yianni Winery in Naoussa** – One of Greece's most renowned wineries, situated on the slopes of Mount Vermion. Participants will enjoy a guided tour of the vineyards and wine cellars, followed by a curated wine-tasting session and a traditional Macedonian lunch at the winery's restaurant.

At the end of the day, participants will return to their hotels using the conference-arranged bus service.