Monday 23

8:15-8:45  
Hörersaal 3  
Hörersaal 4  
Hörersaal 5  
AULA  
Registration  
Opening (AULA)

10:00-11:30  
DADO-SI – Data Models, Ontologies in Open Science and Innovation  
Chair: A. Mosca  
J.S. Hughes et al. – An Ontology-Mediated Space Digital Replica  
R. Rezaei & C. Papatheodoridis – Towards a semi-automatic method for ontology evolution  
M. Wajnberg et al. – Concept Analysis Mining From Linked Data: A Case in Industrial Decision Making

11:30-12:30  
DADO-SI – A. Mosca:  
G. A. Braun et al. – Towards All-In-One OBDA Systems

Lunch Break

14:00-16:00  
WOMoCoE – 4th Intl. Workshop on Ontology Modularity, Contextuality, and Evolution – Chair: L. Rinderknecht  
Keynote: R. Hoehndorf – Evaluating ontology modules from the perspective of machine learning  
P. Rodler & M. Eichholzer – How You Ask Matters; A Simple Expert Questioning Approach for Efficient Ontology Focal Localization  
M. Codese et al. – Extensions of Generic DOL for Generic Ontology Design Patterns

16:30-17:00  
WOMoCoE – Chair: L. Rinderknecht  
F. Toyoshima – Contexts: A Grounding Perspective  
F. Giunchiglia & M. Fumagalli – On Knowledge Diversity

17:10-18:30  
BIG IAOA: AIOIS  
Kick-off Meeting of the “new” IAOA Interest Group on Applied Ontology in Industry and Standards

Coffee Break

19:00-20:00  
Welcome Reception – Orangerie Graz – Stadtpark 2, 8010 Graz – Traum 47 (-> Wetzelsdorf) until Mittelfreitag

Tuesday 24

8:00-9:00  
Hörersaal 3  
Hörersaal 5  
AULA  
Registration  

10:00-11:30  
WINKS-Z – 2nd Workshop on Interaction-Based Knowledge Sharing – Chair: D. Gromann  
J. Euzenat – Replactor-interaction in experimental cultural knowledge evolution  
A. Smirnov et al. – Human-Machine Collective Intelligence for Decision Support

11:30-12:30  
DADO-SI – Chair: D. Gromann  
M. Grombach – Ontology Validation as Dialogue  
K. Adrian & E. Plaza – Argumentation on Meaning: A Semantic Model for Contrast-Sets Alignment

Lunch Break

14:00-15:30  
MLO Tutorial – Semantic similarity and machine learning with ontologies – Chair: M. Hoehndorf  
R. Hoehndorf, M. Kulaev  
Ontologies have long provided a core foundation in the organization of domain knowledge and are widely applied in several domains. With hundreds of ontologies currently available and large volumes of data accessible through ontologies, there are a number of exciting new opportunities emerging in using ontologies for data analytics and predictive analysis

16:00-18:00  
MLO Tutorial (continued)  
We will review methods for data analysis through ontologies based on semantic similarity. Recent methods for machine learning with ontologies are introduced, focusing on how to translate knowledge graph embeddings into semantic similarity. Future work includes extending the translation between knowledge graphs and semantic similarity with a focus on defining new measures and a methodology to validate them.

19:00-21:30  
Conference Dinner – Weisseihof 7-8, 8010 Graz – Traum 47 (-> Wetzelsdorf) until Mittelfreitag

19:30-21:00  
IAOA (International Association for Ontology and its Applications) – General Meeting (AULA)

19:00-20:00  
Welcome Reception – Orangerie Graz – Stadtpark 2, 8010 Graz – Traum 47 (-> Wetzelsdorf) until Mittelfreitag
Wednesday 25

Seminarraum 04
Hörsaal 3
Hörsaal 4
Hörsaal 5
AULA

8:30-9:00 Registration

9:00-10:00 DONERCa – Tutorial on Data-driven ontology engineering with Relational Concept Analysis

P. Valtchev & M. Wajnberg
Data can successfully support ontology engineering tasks such as design or maintenance, assuming it has been properly analyzed to discover possible trends and groups.

10:00‐11:00 DONERCa – Tutorial (continued)

For instance, when an ontology is designed from a relational database, a full (rough) ontology can be enhanced by the result of a conceptual clustering task. It helps to visualize, and even properly formalize, the ontology. Similarly, when populating an existing ontology with independently created data...

11:30-12:30 Coffee Break

12:30-14:00 Lunch Break

14:00-15:00 DONERCa – Tutorial (continued)

... one might want to determine how well defined and structured the data fit the ontology w.r.t. the mapping of resources to ontological classes. This warrant analysis of data descriptions to detect characteristic associations among ontology types, on one hand, and own descriptions in terms of properties, on the other hand, which might reveal anomalous configurations.

15:00-15:30 DONERCa – Tutorial (continued)

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15:30-16:00 DONERCa – Tutorial (continued)

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16:30-17:00 Coffee Break

17:30-19:00 Ontology Pub Quiz – Brot & Spiele – Mariahilferstraße 17 – Room: CUBA – tram #7 (+ Wetzeldorf) until Sudtiroler Platz, 5 min

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