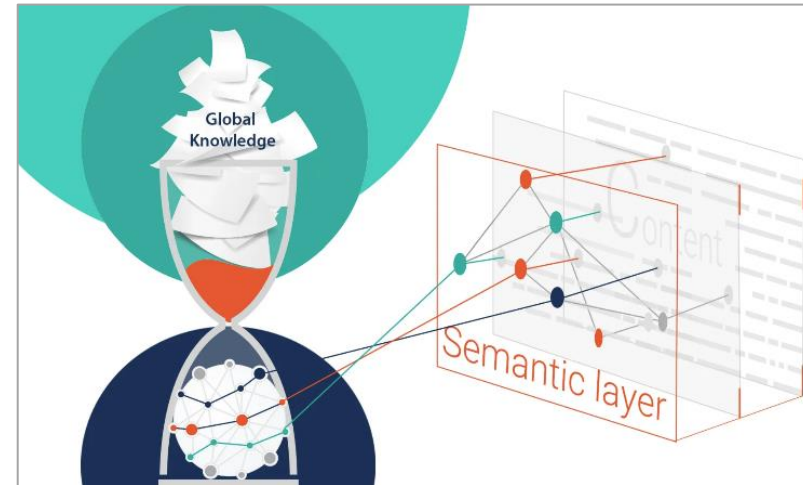


Our digitally-enabled world is made up of heterogeneous and complex systems, which have to communicate and exchange information. Enriching the existing Web with semantics, i.e. meaning for humans and machines, represents the next major evolution in connecting and representing information. It enables data to be linked from a source to any other source and to be understood by computers so that they can understand, interpret and reason about information. This facilitates greater interoperability, more precise querying, and the development of intelligent, automated applications. Ontoterminology building is at the heart of the effort to enrich web data with semantics.



©Ontotext

To illustrate the potential of Ontoterminology for the Digital Humanities and Cultural Heritage, the chosen domain of application is the study of ancient Chinese and Greek philosophers.

**Methodology:** This concise six-hour course (2 X 3h) provides students with a comprehensive understanding of Semantic Web Technologies, blending theory and practice. It covers essential principles, methods, and tools for modeling interoperable datasets crucial for AI systems.

**By the end of this course** participants will learn to create, manipulate and query semantic data structures, enabling machines to effectively comprehend, interpret, and reason with web-based information.

**Key areas:** Ontology, Terminology, Knowledge Graph, Semantic Web

Digital Humanities & Cultural Heritage

**Standards:**

- ISO Standards on Terminology: ISO 1087, ISO 704
- W3C Standards on Knowledge Graph, Ontology and Terminology: SPARQL, RDF, RDFS, OWL

**Platforms & Tools:** Querying Knowledge (RDF) Graph: SPARQL endpoint

Ontoterminology building: Tedi (ontoTerminology editor)

**Instructors:**



**Maria Papadopoulou:**

- Ass. Professor in Digital Humanities and Classics, Dept. of Philology, School of Philosophy, University of Crete
- Project Manager and Research Group Leader, European project TALOS AI for SSH (Artificial Intelligence for the Humanities and the Social Sciences)
- Guest Professor, College of Foreign Languages, NUAA
- ISO expert (representing France) on international standards for Terminology
- Website: <https://www.philology.uoc.gr/en/staff/maria-papadopoyloy>
- Contact: [maria.papadopoulou@uoc.gr](mailto:maria.papadopoulou@uoc.gr)



**Rafail Giannadakis:**

- Research assistant and social media manager of TALOS-AI4SSH TALOS AI for SSH (Artificial Intelligence for the Humanities and the Social Sciences)
- BA student of Classical Studies at Department of Philology (University of Crete)
- Researcher and Modeler to the RDF/OWL dataset on Ancient Chinese and Greek Philosophers (KELKIP and TALOS)

Website: <https://crete.academia.edu/RafailGiannadakis>

Contact: [giannadakis.uni@gmail.com](mailto:giannadakis.uni@gmail.com)



ΠΑΝΕΠΙΣΤΗΜΙΟ ΚΡΗΤΗΣ  
UNIVERSITY OF CRETE



Centre of Greek & Chinese Ancient Civilizations



Nanjing University  
of Aeronautics & Astronautics