

Despoina Trivela is a PhD student in the Image, Video and Multimedia Systems Laboratory of the National Technical University of Athens (IVML-NTUA).

She obtained her diploma from the the school of Electrical and Computer Engineering of the National Technical University of Athens in 2009. Her research interests include knowledge representation and reasoning, description logics, query rewriting techniques over ontologies.

Her PhD thesis is focusing mainly on conjunctive query answering algorithms for expressive ontologies. She has designed optimisation techniques for query rewriting in the DL-Lite, ELHI and Horn-SHIQ description logic languages. The designed algorithms aim to reduce the number of redundant inferences conducted during the rewriting procedure, as well as to minimise the number of query rewritings.

The algorithms have been implemented into the query rewriting system Rapid that has been developed in IVML.

She has conducted an internship in Paris Sud 11 University where she worked on ontology-based data access and query rewriting techniques over inconsistent lightweight ontologies. During the last two years, she is also working in applying the specific techniques for semantic query answering in the area of cultural content web access, in the framework of EU funded projects