COURSE DETAIL

KNOWLEDGE GRAPHS
Country United Kingdom - Scotland
Host Institution University of Edinburgh
Program(s) University of Edinburgh
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 169
UCEAP Course Suffix
UCEAP Official Title KNOWLEDGE GRAPHS
UCEAP Transcript Title KNOWLEDGE GRAPHS
UCEAP Quarter Units 4.00
UCEAP Semester Units 2.70

Course Description

This course provides the theory and practice of knowledge graph construction, reasoning, and question answering technologies. The students analyze case studies to construct knowledge graphs and apply reasoning services on them. The course covers the following topics: knowledge graph foundation and standards; RDF (Resource Description Framework); OWL (Web Ontology Language); SPARQL (Query Language for RDF and OWL); knowledge graph construction, embeddings, and completion knowledge graph reasoning and querying; tableaux algorithm; tractable schema reasoning in EL; tractable query answering in DL-Lite; and semantic parsing.

Language(s) of Instruction
English

Host Institution Course Number
INFR11215

Host Institution Course Title
KNOWLEDGE GRAPHS

Host Institution Course Details
http://www.drps.ed.ac.uk/23-24/dpt/cxinfr11215.htm?code=INFR11215

Host Institution Campus

Host Institution Faculty
School of Informatics

Host Institution Degree

Host Institution Department

Course Last Reviewed
2023-2024

Print