



Associazione  
Italiana per  
l'Intelligenza  
Artificiale

# Spotlight Seminars on AI

Spring 2022

## FROM SEMANTIC NETWORKS TO KNOWLEDGE GRAPHS

Maurizio Lenzerini- *Sapienza University of Rome*

 <https://www.youtube.com/c/AIxIAit>

*live streaming, Q&A, and replay*

May 5 - 5:00 PM (CEST)

While data constitute one of the most important components of an AI system, the majority of research efforts today focus on ML models and algorithms, with the properties of data feeding such algorithms playing a secondary role. Thus, shifting the attention to data has been proposed as one of the most timely topics in AI research, under the name of Data-Centric AI. Arguably, the field of Knowledge Representation and Reasoning (KRR), and in particular its connection to the area of Data Management (DM), can provide important contributions towards shaping the research on Data-Centric AI. In this talk I will try to summarize the most important steps of the research done at the crossing between KRR and DM in the last decades, from the early work on Semantic Networks to the investigation on ontologies and Knowledge Graphs.

**Maurizio Lenzerini** is a Professor of Data and Knowledge Management at the Department of Computer, Control, and Management Engineering of Sapienza University of Rome. His research interests lie at the intersection of Artificial Intelligence and Data Management, with emphasis on Knowledge Representation, Automated Reasoning, Knowledge Graphs, Ontology-based Data Access and Integration. He is the author of more than 300 publications on the above topics, and has delivered around 40 invited talks. According to Google Scholar he has an h-index of 82, and a total of 28.766 citations (April 2022). He is a member of the Academia Europaea - The European Academy and the recipient of two IBM Faculty Awards, a Fellow of EurAI (European Association for Artificial Intelligence), a Fellow of the ACM (Association for Computing Machinery), a Fellow of AAAI (Association for the Advance of Artificial Intelligence) and an ER Fellow.

