

SEMINAR ANNOUNCEMENT

Thursday February 27th, 2025

at 10:00 am

Room "Sala Seminari" - Abacus Building (U14)

Graph-based Semantic Knowledge Representation and Management for Cultural Heritage

Speaker

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Abstract

While very useful, current Semantic Web technologies may not be perfectly suitable for application in some specific contexts. The GraphBRAIN framework aims at overcoming these limitations by superimposing semantic approaches to state-of-the-art database technology, so as to join the advantages of both. The new setting results in more efficiency and effectiveness, better control on data protection, and a wider range of reasoning and exploitation options, while still ensuring interoperability. Relevant applications of the framework have been developed in the field of Cultural Heritage, in order to replace the traditional record-based representations by more powerful and expressive graph-based ones.

Short Bio

Stefano Ferilli, PhD [born 1972, Graduated in Computer Science in 1996, Ph.D. in Computer Science 2001, Specialistic degree in Computer Science 2003]. Since 2004 Full Professor at the Department of Computer Science of the University of Bari (first appointment 2002), where he leads the Automated Reasoning and Machine Learning (ARA) research lab. 2006-2018 Director of the Inter-Departmental Center for Logic and Applications of the University of Bari. Since 2018 reference person for the UniBA node of the CINI National Lab on Artificial Intelligence and Intelligent Systems (AIIS). Since 2011 member of the Steering Committee of the Italian Association for Artificial Intelligence, where he served as Treasurer (2015-2024) and vice-president (2024-current). Since 2022 coordinator of the AIIA Working Group on Cultural Heritage. Since 2006 scientific director of the Museum of Computer Science at the University of Bari.

His research interests are centered on Logic and Algebraic Foundations of Machine Learning, Inductive Logic Programming, Theory Revision, Knowledge Representation, Multi-Strategy Reasoning, Expert Systems, Data Mining. Process Mining and Management. Applications include Digital Document Processing, Digital Libraries and Archives, Ambient Intelligence, Bioinformatics, Education..