Federico Maria Scafoglieri

preferred programming language : JAVA

Summary

Federico Maria Scafoglieri is a PostDoc researcher in Computer Engineering at the University of Rome La Sapienza. He belongs to the Artificial Intelligence & Knowledge Representation research group (head of lab Prof. Maurizio Lenzerini). During his Ph.D he spent a time aboard as research scholar at IBM Research Almaden working on Ontology-Based Information Extraction and Entity Resolution (collaborators Dr. Ronald Fagin, Dr. Lucian Popa, Prof. Phokion Kolaitis, Dr. Yunyao Li, Dr. Kun Qian).
Research Interests: Knowledge Representation and Automated Reasoning, Ontology Based Data Integration, Information Extraction, Entity Linking.

Education

- **University of Rome La Sapienza** — Rome, Italy
  PhD Candidate — *Nov 2017 – Oct 2021*
  Supervisor: Prof. Domenico Lembo
- **University of Rome La Sapienza** — Rome, Italy
  Master's Degree in Computer Engineering — *Jun 2013 – Jan 2017*
  Supervisor: Prof. Domenico Lembo
- **University of Rome La Sapienza** — Rome, Italy
  Bachelor's degree in Computer Engineering — *Sept 2009 – Dec 2012*

Experience

- **IBM's Almaden Research Center** — San Jose, CA
  Research Scholar — *Oct 2019 - Present*
  Managers: Dr. Lucian Popa / Yunyao Li
  - **Ontology-Mediated Information Extraction**: I Introduced a new paradigm for Information Extraction and Ontology based Data Integration, that seeks to exploit the semantic knowledge expressed in ontologies to improve query answering over unstructured data. I developed an Ontology-Mediated Information Extraction based on the information extraction tool System-T and the Ontology-based data access tool MASTRO. I won a best demo paper at ISWC2020 for the related publication.
  - **Entity Resolution**: I introduced a new methodology for Entity Resolution and Query Answering over Ontology-based Data Integration systems (publication to be appear)
- **OBDA Systems** — Rome, Italy
  Research & Development — *March 2017 - Present*
  - **Mastro Studio**: The lead developer for the Mastro Studio project. Mastro Studio is a web-based platform for data management through the OBDA paradigm.
- **University of Rome La Sapienza** — Rome, Italy
  · Teaching Assistant *of Programming Language I* — *Oct 2020 - Oct 2021*
  · Professor *of Multimedia Design II* — *March 2019 - Sept 2019*
  · Teaching Assistant *of Programming Language I* — *Oct 2017 - Apr 2018*
- **PricewaterhouseCoopes (PWC)** — Rome, Italy
  Technology Consultant — *Sept 2016 – March 2017*

Leadership and Awards

- Starting Grant La Sapienza 2017
- Mobility Grant La Sapienza. 2019 - 2020
- Research Scholar IBM to cover the aboard period 2019-2020
- **Best Demo Award** ISWC2020

Relevant Publications

For a complete list of publications check my google scholar. Authors in alphabetical order as the norm in theoretical Computer Science.

- Domenico Lembo, Yunyao Li, Lucian Popa, Kun Qian, Federico Scafoglieri. Ontology Mediated Information Extraction with MASTRO SYSTEM-T ISWC 2020 (**Best Demo Award**)
- Domenico Lembo, Federico Scafoglieri. Ontology-based Document Spanning Systems for Information Extraction. International Journal of Semantic Computing. 2020
- Giulio Ganino, Domenico Lembo, Massimo Mecella, Federico Scafoglieri: Ontology population for open-source intelligence: A GATE-based solution. Softw., Pract. Exper. 48(12): 2302-2330 (2018)