europass Curriculum vitae ai fini della pubblicazione

PERSONAL INFORMATION Manuel Namici

ACADEMIC POSITIONS

02/2022-08/2022
Research scholar at the Information Sciences Institute, USC
University of Southern California, Los Angeles, USA
INFORMATION SCIENCES INSTITUTE
TOPIC: Missing values imputation techniques in data exchange and data integration systems for federated learning tasks
SUPERVISOR: Prof. José-Luis Ambite

11/2018-05/2023
Ph.D. Student in Enginnering in Computer Science
Sapienza, University of Rome
DEPARTMENT OF COMPUTER, CONTROL, AND MANAGEMENT ENGINEERING
TOPIC: Data integration through semantic technologies, ontology-based data access and management
SUPERVISOR: Prof. Giuseppe De Giacomo

FELLOWSHIPS

07/2020-09/2023
Temporary Research Fellow
Sapienza, University of Rome
DEPARTMENT OF COMPUTER, CONTROL AND MANAGEMENT ENGINEERING
RESEARCH TITLE: Ontology-based Data Access under Views.
RESEARCH DESCRIPTION:
The Ontology-Based Access (OBDA) paradigm aims at providing to the users a unified conceptual view of the domain of interest, referred to as the ontology, while still enabling data to reside in different data sources. During this research project we have investigated and designed solutions for the introduction of the notion of views over the ontology in the context of an OBDA system.

04/2019-04/2020
Temporary Research Fellow
Sapienza, University of Rome
DEPARTMENT OF TRANSLATIONAL AND PRECISION MEDICINE
RESEARCH TITLE: Development of a patient-centered system for the management and analysis of data about health-related quality of life.
RESEARCH DESCRIPTION:
The goal of this research project was to address the need of integrating and comparing *patient-reported outcomes*, like those resulting from traditional clinical trials, with *medical records* in the evaluation of the effect on the quality of life of currently adopted pharmacological treatments for patients affected by oncological diseases. During this work we have designed a data preparation system, based on the *ontology-based data management approach*, that allows to gather multiple health-related patient data into a knowledge graph, by integrating subjective data (the patient-reported outcomes), physician-derived medical records, and objective data (primarily health-related data seamlessly collected by personal devices such as smartphones, laboratory data and radiological evaluation). The role of this knowledge graph is to collect real-life data to estimate both the efficacy and the impact on the patients' quality of life of current treatments, by providing a framework that acts as the base for modern data analysis algorithms.

06/2018-11/2018 **Scholarship**

Sapienza, University of Rome
DEPARTMENT OF COMPUTER, CONTROL, AND MANAGEMENT ENGINEERING
RESEARCH TITLE: Performance analysis for Ontology-based Data Access systems.
SUPERVISOR: Prof. Maurizio Lenzerini

EDUCATION

05/2023 **Ph.D. Engineering in Computer Science**

Sapienza, University of Rome
DEPARTMENT OF COMPUTER, CONTROL, AND MANAGEMENT ENGINEERING
THESIS TITLE: *Views in Ontology-based Data Management*
SUPERVISOR: Prof. Giuseppe DE GIACOMO

03/2018 **M.Sc. Engineering in Computer Science**

Sapienza, University of Rome
DEPARTMENT OF COMPUTER, CONTROL, AND MANAGEMENT ENGINEERING
THESIS TITLE: *R2RML Mappings in OBDA Systems: Enabling Comparison among OBDA Tools*
SUPERVISOR: Prof. Giuseppe DE GIACOMO
FINAL GRADE: 110/110 *e lode*

11/2013 **B.Sc. in Engineering in Computer Science**

Sapienza, University of Rome
DEPARTMENT OF COMPUTER, CONTROL, AND MANAGEMENT ENGINEERING
FINAL GRADE: 108/110

PUBLICATIONS

– Maria Rosaria Fraraccio, Manuel Namici, and Valerio Santarelli. From OWL to graphol: Importing ontologies into eddy the editor. In Paul Groth, Anisa Rula, Jodi Schneider, Ilaria Tiddi, Elena Simperl, Panos Alexopoulos, Rinke Hoekstra, Mehwish Alam, Anastasia Dimou, and Minna Tamper, editors, *The Semantic Web: ESWC 2022 Satellite Events - Hersonissos, Crete, Greece, May 29 - June 2, 2022, Proceedings*, volume 13384 of *Lecture Notes in Computer Science*, pages 143–147. Springer, 2022

– Marco Console, Giuseppe De Giacomo, Maurizio Lenzerini, and Manuel Namici. Intensional and extensional views in dl-lite ontologies. In Zhi-Hua Zhou, editor, *Proceedings of the Thirtieth International Joint Conference on Artificial Intelligence, IJCAI 2021, Virtual Event / Montreal, Canada, 19-27 August 2021*, pages 1822–1828. ijcai.org, 2021

– Manuel Namici, Giuseppe De Giacomo, and Maurizio Lenzerini. Extending DL-LiteR TBoxes with View Definitions. In Stefan Borgwardt and Thomas Meyer, editors, *Proceedings of the 33rd International Workshop on Description Logics (DL 2020) co-located with the 17th International Conference on Principles of Knowledge Representation and Reasoning (KR 2020), Online Event [Rhodes, Greece], September 12th to 14th, 2020*, volume 2663 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2020

– Valerio Santarelli, Lorenzo Lepore, Manuel Namici, Giacomo Ronconi, Marco Ruzzi, and Domenico Fabio Savo. Monolith: an OBDM and Knowledge Graph Management Platform. In Mari Carmen Suárez-Figueroa, Gong Cheng, Anna Lisa Gentile, Christophe Guéret, C. Maria Keet, and Abraham Bernstein, editors, *Proceedings of the ISWC 2019 Satellite Tracks (Posters & Demonstrations, Industry, and Outrageous Ideas) co-located with 18th International Semantic Web Conference (ISWC 2019), Auckland, New Zealand, October 26-30, 2019.*, volume 2456 of *CEUR Workshop Proceedings*, pages 173–176. CEUR-WS.org, 2019

– Lorenzo Lepore, Manuel Namici, Giacomo Ronconi, Marco Ruzzi, and Valerio Santarelli. The Mastro Ecosystem: Ontology-Based Data Management from Theory to Practice. In *2nd IEEE International Conference on Artificial Intelligence and Knowledge Engineering, AIKE 2019, Sardinia, Italy, June 3-5, 2019*, pages 101–102. IEEE, 2019

– Manuel Namici and Giuseppe De Giacomo. Comparing query answering in OBDA tools over w3c-compliant specifications. In Magdalena Ortiz and Thomas Schneider, editors, *Proceedings of the 31st International Workshop on Description Logics co-located with 16th International Conference on Principles of Knowledge Representation and Reasoning (KR 2018), Tempe, Arizona, US, October 27th - to - 29th, 2018.*, volume 2211 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2018

– Manuel Namici. R2RML mappings in OBDA systems: Enabling comparison among OBDA tools. *CoRR*, abs/1804.01405, 2018

TEACHING

Fall 2020 TA for the course “Progettazione del Software”, bachelor degree in Engineering in Computer Science, A.Y. 2020-21.

Fall 2019 TA for the course “Progettazione del Software”, bachelor degree in Engineering in Computer Science, A.Y. 2019-20.

SOFTWARE DEVELOPMENT

During my career I gained expertise in developing applications in several programming languages, including Java, Python, JavaScript and C/C++.

The following is a list of software projects for which I have contributed:

– EDDY: a desktop application for the specification and visualization of GRAPHOL ontologies.
– MASTRO: an Ontology-based Data Management System.
– MONOLITH: an OBDM and knowledge graph management platform.
– BLACKBIRD: an ontology-based relational database migration system.

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C1

AI FINI DELLA PUBBLICAZIONE

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003 n. 196 Codice in materia di protezione dei dati personali.

Firmato, Manuel Namici