



Fabrizio Mangione

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🌐 LinkedIn Profile

EDUCATION

- **PhD student in Information and Communication Technologies** March 2024
Research : Generative AI for Green and Smart IoT Applications University of Calabria, Italy
- **M.Sc. in Computer Engineering Artificial Intelligence and Machine Learning** October 2023
University of Calabria Italy - DIMES dept. Grade: 110 laude honors/110
- **B.Sc. in Computer Engineering** September 2023
University of Calabria, Italy - DIMES dept. Grade: 106/110

EXPERIENCES

- **Teaching assistant** Winter 2024
2nd level Master University of Calabria, Italy
- **Exchange student** February 2023 – July 2023
Institut Polytechnique De Paris, France
 - Main research activity was focused on vehicle trajectory prediction with the aim to enhance traffic management, reduce congestion, and improve overall transportation efficiency, developing ML models.
- **Internship** October 2022 - December 2023
SPEME Lab (DLab director Prof. G. Fortino) University of Calabria, Italy
 - Development of a platform based on UWB devices for Human Activity Recognition in small indoors areas.
- **Participant student** May 2024
at Ital-IA conference on Artificial Intelligence Naples, Italy
- **Participant student** March 2023
at 26 th Conference on Innovation in Clouds, Internet and Networks Paris, France
- **Participant student** September 2023
at The International Conference on Embedded Wireless Systems and Networks University of Calabria, Italy

AWARDS

- **M.Sc. student of “Percorso di Eccellenza”** University of Calabria, Italy
 - The “Percorso di Eccellenza” aims to enrich the personal education of students particularly deserving through the expansion of general culture, the deepening of technical-scientific knowledge and the improvement of professional skills. “Percorso di Eccellenza” consists of educational activities in addition to those of the course of study in which the student is enrolled.

PUBLICATIONS

A generative ai-driven architecture for intelligent transportation systems

Fabrizio Mangione, Vincenzo Barbuto, Claudio Savaglio, Giancarlo Fortino
2024, accepted at IEEE 10th World Forum on Internet of Things,

Generative Digital Twins: A Novel Approach in the IoT Edge-Cloud Continuum

Claudio Savaglio, Vincenzo Barbuto, Fabrizio Mangione, Giancarlo Fortino
2024, published at IEEE Internet of Things Magazine

Development and Validation of a Proximity-based Wearable Computing Testbed for Community-oriented Wearable Systems

Qimeng Li, Fabrizio Mangione, Francesco Porreca, Raffaele Gravina, Giancarlo Fortino

2024, published at IEEE International Conference on Pervasive Computing and Communications Workshops and other Affiliated Events (PerCom Workshops)

TECHNICAL SKILLS AND INTERESTS

Languages: Italian - native speaker, English - B2 CEFR

Programming languages: Python, Java, C++, C

Developer Tools: Visual studio code, Git Hub, IntelliJ

Frameworks: Pytorch, Tensorflow, SpringBoot

Cloud: Microsoft Azure, AWS

Soft Skills: Teamwork, Problem solving, Resilient, Motivated