

PERSONAL INFORMATION**Barbara Mavi' Masini**

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Female | 07/11/1976 | Italian

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input type="checkbox"/> Full professor	<input checked="" type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	<input type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

- 01/01/2023 – **Director of Research**
National Research Council (CNR) – Institute of Electronics, Information Engineering and Telecommunications (IEIT)
- 01/01/2021 – 31/12/2022 **Senior Researcher**
National Research Council (CNR) – Institute of Electronics, Information Engineering and Telecommunications (IEIT)
- 01/04/2008 - 31/12/2020 **Researcher**
National Research Council (CNR) – Institute of Electronics, Information Engineering and Telecommunications (IEIT)
- 2002 – **Adjunct Professor**
University of Bologna, Telecommunications Engineering
 - Since 2002 adjunct Professors for courses on wireless communications.
Currently Adjunct Professor for the course of Signals and Systems for Vehicular Communications M in Electronic Engineering for Intelligent Vehicles (EEIV).
- 2006 - 2011 **Consultant** for: Almamater srl, Metasystem, Cosind SA, Wi4B.

EDUCATION

- 01/01/2002 – 13/05/2005 **PhD in Telecommunication Engineering**
University of Bologna, Italy
- 2002 **Qualified as Engineer (abilitazione alla professione di ingegnere)**

PERSONAL SKILLS

- Mother tongue **Italian**
- Other language **English**

RESEARCH INTERESTS

- Recent topics **Wireless communications declined in:**
 - Connected and automated vehicles (CAV).
 - Cooperative networks and relay assisted communications.
 - Beyond 5G networks.
 - Visible light communication.
 - Integrated sensing and communication.
- Experimental activities
 - Field trials related to safety applications for connected vehicles (intersection collision

- warning, virtual traffic light).
- Simulation platform with hardware in the loop (HiL) to test vehicular applications based on connectivity.
- Visible light communications indoor field trials.

RECENT PROJECTS COORDINATIONS

- 01/09/2022 – 28/02/2026 MOST – Centro Nazionale Mobilità Sostenibile, Spoke 6 – Veicolo autonomo e connesso (CAV), PNRR - Proposte di intervento per il Potenziamento di strutture di ricerca e creazione di “campioni nazionali” di R&S su alcune Key Enabling Technologies da finanziare nell’ambito del Piano Nazionale di Ripresa e Resilienza, Missione 4 Componente 2 Investimento 1.4 finanziato dall’Unione europea – NextGenerationEU.
COST OF THE PROGRAM: 320 Milion euro.
Cost of Spoke 6 - CAV: 11 Milion euro
Cost of CNR in Spoke 6: 1.358.654€.
Coordination of CNR in Spoke 6, coordination of WP1 and coordination of one test bed.
- 01/01/2022 – 28/02/2026 RESTART - RESearch and innovation on future Telecommunications systems and networks, to make Italy more smart
Focused project MoVeOver (MoVeOver is part of Spoke 5 – Industrial and Digital Transition Networks)
NextGenerationEU Call: National Recovery and Resilience Plan, Topic: Mission 4, Component 2, Investment 1.3
Cost of MoVeOver: 440.000€
Coordination of CNR in the Focused project MoVeOver.
- 01/04/2022 – 30/04/2024 UIISH - Urban Intelligence Science Hub for City Network”, Obiettivo specifico II.1 – “Progetti Pilota” – II.1 – “Azioni innovative” del Programma Operativo Complementare “Città metropolitane” 2014-2020. 4M€. **Coordination of CNR – IEIIT**.
- 01/06/2019 - 31/07/2022 Design and Development of a V2X and ADAS validation platform – funded by POR FESR 2014-2020 e PRO FSE 2014-2020, 2.5M€. **Coordination of CNR**.
- 2019 - 2023 Casa delle Tecnologie Emergenti di Matera (CTEM), 6.448.424 Euro. CNR **Responsible** for Smart Mobility Task.
- 1-9-2016 – 31-8-2019 V2X communication service and plug test technology, funded by Korean KIAT agency. **Responsible** for C-ITS test activities. CNR funding: 350,000,000 KRW (around 290,000 €)
- 01/07/2009 - 30/06/2012 PEGASUS, funded by MISE, 7.1 M€. **Coordinator of CNR** for V2V activities (608k€).

EDITORIAL ACTIVITIES

- 2023-2024 Guest Editor of Sensors, Special Issue on Joint Communication and Sensing in Vehicular Networks
2018 – IEEE Access (outstanding associate editor in 2022, 2024)
2016 – Computer Networks - Elsevier
2018-2019 Guest Editor of Journal on Sensor and Actuator Networks, Special Issue Advances in Vehicular Networks
2017-2018 Guest Editor of Sensors, Special Issue on “Sensor Networks for Smart Roads
2016-2017 Guest Editor of Mobile Information Systems, Special Issue on Connected Vehicles: Applications and Communication Challenges
2015 - 2016 Guest Editor of Ad Hoc Networks, Special Issue on Vehicular Networks for Mobile Crowd Sensing

RECENT ACTIVITIES and AWARD

- 2025 - Keynote Speaker at international events: one6G Summit, MAN Truck and Bus
2024 - Nominated among the 10 women shaping the landscape of 6G technology.
2024 - IEEE Vehicular Technology Conference (VTC) Spring 2024 **Track Chair** of Spectrum Management, Green Communications, Services and Security
2023 - Qualified as full professor (**abilitazione a professore di I fascia** nel settore concorsuale Ing-Inf-03)

- 2022 - IEEE International Smart Cities Conference 2022 – **Track Chair**
- 2022 - IEEE MELECON 2022 - **Track Chair**
- 2021 - **Keynote speaker** at Automotive Circuits and Systems Workshop (AutoCAS), Korea, 25 May 2021.
- **Invited speaker** at AEIT on “Connected and Automated Vehicles: toward a new paradigm of mobility” 16 feb 2021.
- **Invited speaker** at Milano Digital Week, 25-28 May 2020 on Connected and Automated Vehicles
- 2020 - **Organizer** of workshop “ICT technologies and COVID-19 emergency” within ComSoc/VTS Italian Chapter, 16 Jul. 2020.
- 2020 - **Co-Director** of the Wireless Communication Laboratory (WiLab) within CNIT
- **CNR Representative** in Technical Committee “CT322 Communication Technologies and Architectures”.
- 2019 - **Invited speaker** at IEEE ComSoc School Spring School, Marrakech 9 April 201 at Mohammed VI Polytechnic University on Cellular V2X for Cooperative Connected and Autonomous Vehicles.
- **Invited Speaker** at Workshop “Roboethical elements in self-driving vehicles” at I-RIM 3D, Roma 18-20 Oct. 2019 talking on “Smart Mobility: Smart vehicles in a smart city.”
- 2019 – - **CNR-IEIT responsible** for i) Smart Mobility strategic research line, ii) GTTI
- **CNIT-Wilab co-founder**
- 2018 - **Co-organizer** del Young author best paper award 2018 within IEEE ComSoc/VT Joint Chapter ITALY Section Committee announced at IEEE PIMRC 2018.
- **Co-chair** della Conferenza di Dipartimento CNR-DIITET – Area Strategica AS.10 – Ingegneria dei Sistemi e delle Comunicazioni, Sessione Wireless Communications, Torino, 14 novembre 2018.
- **Publicity Chair** of the 16th edition of the International Conference on Intelligent Transport Systems (ITS) Telecommunications (ITST’2018) Lisbon, Portugal, in October 15-17
- 2017 - **Invited paper speaker** at IEEE VTC fall 2017, Toronto, Canada, on Radio Access for Future 5G Vehicular Networks.
- **Tutorial instructor** on Next Generation Vehicular Networks (When Vehicles will Talk to Each Other) IEEE ISWCS, Bologna 28-31 Aug. 2017.
- 2019 - 2022 - **CNR-IEIT responsible for CNIT** research unit
- 2018 - 2022 - **Secretary of Chapter VT06/COM19** of IEEE Italy Section
- 2017 - Reviewer for the Minister of Economic Development (MISE)
- 2010 – 2022 - Tutor of around 100 degrees and master thesis in Telecommunication Engineering
- 2010 - Tutor of 10 research grant positions
- 2007 - **TPC** of hundreds international conferences.

PUBLICATIONS

Authors of more than 100 publications.

<https://publications.cnr.it/authors/barbaramavi.masini>