

PERSONAL INFORMATION

Sara Pizzi was born in Reggio Calabria, Italy, on 21th October 1981. She is married and she has a son and a daughter born in 2010 and 2015, respectively.

EDUCATION AND RESEARCH RESPONSIBILITIES

Sara Pizzi is an Assistant Professor (non-tenure track position) in Telecommunications at University Mediterranea of Reggio Calabria, Italy, where she is member of the Laboratory for Advanced Research into Telecommunication Systems (ARTS). From the same University she received the 1st (2002) and 2nd (2005) level Laurea Degree, both cum laude, in Telecommunication Engineering and the Ph.D. degree (2009) in Computer, Biomedical and Telecommunication Engineering. She received a grant for attending a second level Master in Information Technology at CEFRIEL/Polytechnic of Milan in 2005. Since 2009, she had 6 Post-Doc Research Fellowship contracts with University Mediterranea of Reggio Calabria.

RESEARCH TOPICS AND PUBLICATIONS

- Quality of Service (QoS) provisioning in wireless networks
 - Device-to-Device (D2D) and Machine Type Communications (MTC) over 5G/6G cellular networks
 - Radio resource management (RRM) for multicast service delivery
 - Integration of Non-Terrestrial Networks (NTN) in Internet of Things (IoT)
- Achieved results are reported in more than 70 scientific publications: 25 international peer-reviewed journals, 42 contributions to the major international conferences in the telecommunications field, and 4 book chapters. Some of these publications are invited papers. The scientific value of the conducted research has been recognized by the research community with several citations (more than 320, source Scopus), and an h-index equal to 9 (source Scopus).

NATIONAL AND INTERNATIONAL COOPERATION

- University of Bologna (Italy): joint research activity in the field of routing and resource allocation in multi-radio wireless mesh networks
- University of Roma Tre (Italy): joint research activity in the field of electromagnetic nanonetwork for sensing and drug delivery
- INRIA, Lille (France): joint research activity in the field of electromagnetic nanonetwork for sensing and drug delivery
- Peoples' Friendship University (Russia): joint research activity in the field of paging and data delivery for supporting group-oriented IoT traffic in 5G networks
- Ericsson Research: joint research activity on the integration of NTNs in IoT
- Dublin City University (Ireland): joint research activity in the field of efficient delivery of unicast and multicast wireless video services
- University of Cagliari (Italy): joint research activity in the field of multicast service delivery in D2D-based cellular networks
- King's College London (UK): joint research activity in the field of efficient delivery of unicast and multicast wireless video services
- Tampere University of Technology (Finland): joint research activity in the field of 5G New Radio Capabilities for directional access at mmWave frequencies

HONORS AND AWARDS

- 2021 Scott Helt Memorial Award for the best paper published in IEEE Transactions on Broadcasting (the award will be officially communicated at BMSB 2022)
- Author of the 5 invited papers
- Author of the paper "Channel-Aware Scheduling for QoS and Fairness Provisioning in IEEE 802.16/WiMAX Broadband Wireless Access Systems" that has been among the Top accessed Articles of IEEE Network
- Outstanding reviewer for Elsevier Ad Hoc Networks (2018)
- Outstanding reviewer for Elsevier Computer Networks (2017)

VISITING PERIODS

- Visiting researcher at INRIA (Institut national de recherché en informatique et en automatique), Lille, France, under the framework of the international project PALMARES [June 2013 – July 2013]
- Visiting student at the Department of Computer Science of Alma Mater Studiorum-University of Bologna, Italy, under the framework of the national project PRIN 2006 NADIR [May 2008 – January 2019]

ATTENDED CONFERENCES AS A SPEAKER

- WiMAN 2009 (IEEE International Workshop on Wireless Mesh and Ad Hoc Networks) within ICDCS 2009 (International Conference on Distributed Computing Systems), Montreal, Canada, June 2009
- European Wireless 2010, Lucca, Italy, April 2010
- European Wireless 2018, Catania, Italy, May 2018
- IFIP WWIC 2019 (International Conference on Wired/Wireless Internet Communications), Bologna, Italy, June 2019
- IEEE Globecom 2019, Waikoloa, HI, USA, December 2019

EDITORIAL ACTIVITES

- Guest Editor of the Special Issue “Smart Spectrum and Radio Resource Management for Future 5G Networks,” published by Elsevier Computer Networks
- Guest Editor of the Special Issue “Internet of Things and Sensors Network in 5G Wireless Communications,” published by Sensors
- Associate Editor for Elsevier Ad Hoc Networks (since February 2021)
- Associate Editor for IEEE Access (since February 2019)
- Academic Editor for Hindawi Wireless Communications and Mobile Computing (since June 2019)
- Review Editor for Frontiers (since July 2020)
- Reviewer for the main journals and conferences/workshops in the telecommunication sector

CONFERENCE ORGANIZATION

- Track chair of “Electromagnetic-Body Area NanoNETworks (E-BANNET)” within the 9th International Conference on Body Area Networks (BodyNets 2014)
- Track Chair of “5G and Towards 6G” within the IEEE CCNC 2021 Conference
- Workshop Chair for “NTN-6G: Non-Terrestrial Networks in 6G Wireless” within the IEEE WoWMoM 2021 Conference
- Track Chair of “5G and Towards 6G” within the IEEE CCNC 2022 Conference
- Workshop Chair of “NTN-6G: Non-Terrestrial Networks in 6G Wireless” within the IEEE WoWMoM 2022 Conference
- Promotion Chair of the IEEE BTS Young Professionals Workshop 2018
- Session chair at IFIP WWIC 2019
- Technical Program Committee (TPC) Member for the following workshops and conferences: BWCCA 2012-2013-2014, IEEE CORAL Workshop 2015-2016, IFIP WWIC 2018, IEEE VTC-Fall 2018-2019 Recent Results Track, IEEE INFOCOM WKSHP MiSARN 2019, IEEE M&N 2019, IEEE Globecom Workshop on Cellular UAV and Satellite Communications 2021, IEEE ICC 2022 Workshop on Integrating UAVs into 5G and Beyond, MedComNet 2021-2022, IEEE INFOCOM 2021 workshop WiSARN 2020-2021

NATIONAL AND INTERNATIONAL PROJECTS

- Coordinator of the FIRB project proposal “NanoNet: Novel communication techniques based on metamaterial nanorobots for diagnostic and drug delivery nanomedicine applications” which passed the first selection phase
- WP Leader of the FESR FSE CALABRIA 2014/2020 iCare
- Task Leader of the e-Brewery “Virtualization, sensing and IoT for the innovation of the industrial beverage production process”, funded by MIUR under the initiative “P.O.N. Ricerca e Innovazione 2014-2020
- Participation to DOMUS “Intelligent platform for monitoring and managing the in-home security of people and facilities”, funded by MIUR under the initiative “P.O.N. Ricerca e Competitività 2007-2013”

- Participation to “PALMARES: An Internet of Smart Objects”, International research project funded by MIUR under the framework of Cooperlink (Cooperazione Interuniversitaria Internazionale – A.F. 2011) initiative, in cooperation with INRIA, Lille, France and Stellenbosch University, South-Africa [2011-2013]
- Participation to FINGERIMBALL “Anti-counterfeiting technologies and materials and nanotechnological applications for the authentication and protection of excellent agri-food products”, funded by MIUR under the initiative “P.O.N. Ricerca e Competitività 2007-2013”
- Participation to SALICE “Satellite-Assisted Localization and Communication Systems for Emergency Services”, funded by MIUR under the initiative PRIN 2007
- Participation to NADIR “STEM devices for self-organizing wireless networks”, funded by MIUR under the initiative PRIN 2006

AFFILIATIONS AND CHAIRING

- Vice-chair of the IEEE Broadcasting Technology Italy Chapter
- Member of the Italian Group of Telecommunications and Information Theory (GTI, Gruppo Nazionale Telecomunicazioni e Teoria dell'Informazione)
- Member of the Italian Consorzio Nazionale Interuniversitario per le Telecomunicazioni (CNIT)
- Member of the Institute of Electrical and Electronics Engineers (IEEE)

TEACHING ACTIVITIES

- Instructor of the minicourse entitled “Non-Terrestrial Networks in 5G & beyond” at the Doctoral School of University Mediterranea of Reggio Calabria, Academic Year 2020/2021
- Evolution of Internet (Master Degree), Regular course in the Academic Years 2020/2021 – 2021/2022, University of Reggio Calabria
- Fundamentals of Telecommunications (Master Degree), Regular course in the Academic Years 2020/2021 – 2021/2022, University of Reggio Calabria
- Wireless Pervasive Networks (Master Degree), Regular course in the Academic Year 2018/2019, University of Cosenza
- Foundations of telecommunications and networks (Bachelor Degree), Regular course in the Academic Year 2008/2009 - 2009/2010 - 2010/2011, University of Catanzaro
- Advanced Systems for Personal Communications (Master Degree), Regular course in the Academic Year 2009/2010, University of Reggio Calabria
- Architectures and Protocols for Internet (Training Course), From September to December 2016, under Project PILOT-Misura FAR
- Networks for Personal Communications (Training Course), From January to March 2017, under Project PILOT-Misura FAR
- Telematics (Bachelor Degree), Practical lessons in the Academic Years 2006/2007, 2007/2008, 2008/2009
- Telecommunication Networks (Bachelor Degree), Practical lessons in the Academic Years 2006/2007, 2007/2008
- Advanced Systems for Personal Communications, Practical lessons in the Academic Year 2007/2008
- Advanced Systems for Personal Communications, Seminars on WiMAX technology in the Academic Years 2007/2008, 2008/2009
- Tutor in Telecommunications, From December 2005 to March 2006, University Mediterranea of Reggio Calabria

STUDENTS ACTIVITIES

- Co-tutor of undergraduate and graduate Internships at University Mediterranea of Reggio Calabria on topics about network simulations tools
- Co-supervisor of several undergraduate and graduate student thesis on different topics in the field of wireless networking