

MICHELE ZORZI: Curriculum vitae

PERSONAL INFORMATION

Michele Zorzi, born in Venice, Italy, on Dec. 06, 1966
Department of Information Engineering, University of Padova
via Gradenigo 6/B, 35131 Padova, tel. +390498277762, zorzi@dei.unipd.it

EDUCATION

Ph.D. in Telecommunications Engineering, University of Padova, 1994
Laurea Degree (M.S. equiv.) in Electrical Engineering, University of Padova, 1990 (110/110 cum laude)
Exchange Ph.D. student, University of California at San Diego, Academic Year 1992/93.

CURRENT POSITION

Professor of Telecommunications, University of Padova, 2003-present.

PREVIOUS POSITIONS

Professor of Telecommunications, University of Ferrara, 2000-2003
Associate Professor of Telecommunications, University of Ferrara, 1998-2000
Research Scientist, University of California at San Diego, 1995-1998
Assistant Professor, Politecnico di Milano, 1993-1996
Various Visiting Summer appointments at the University of California at San Diego
Duties for these positions: teaching courses in Telecommunications and Networking; conducting and managing research in the area of wireless communications and networks.

FELLOWSHIPS AND AWARDS

IEEE Fellow, 2007
Several Laurea awards and research fellowships
Best Tutorial Paper Award, IEEE Communications Society, 2008
Stephen O. Rice Best Paper Award, IEEE Communications Society, 2018
Other best paper awards: IEEE Mobiwac 2005, IEEE CAMAD, 2006, IEEE GLOBECOM (Wireless Networks Symposium) 2007, European Wireless Conference 2009, European Wireless Conference 2016.

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

Since 1998, the PI has supervised 31 PhD students (24 graduated, 2 defending in Spring 2018, 5 ongoing, with two new ones starting in Fall 2017) and 16 post-docs. Students who worked under the PI's supervision have held or have been offered faculty/post-doc/staff positions at the following institutions/companies: Stanford, USC, UCSD, UCLA, UC Irvine, Purdue, NYU, University of Padova, CNR, DLR (German Aerospace Center), Rohde-Schwarz, CTTC (Barcelona), Woods Hole Oceanographic Institution, Qualcomm R&D, IMDEA Networks, Huawei R&D, RWTH Aachen, Mount Sinai Hospital.

TEACHING ACTIVITIES

Since 1998, full-time University teaching. Courses taught include: Network Modeling, Network Simulation and Analysis, Telecommunication Networks, Internet and Networking Lab, Digital Signal Processing, Communication Systems, Signals and Systems.

ORGANIZATION OF SCIENTIFIC MEETINGS

Member of the organizing committee for international conferences:

IEEE ICUPC97, Publicity co-chair;
ACM MobiCom99, Tutorial co-chair;
ACM MobiCom01, Technical Program co-chair;
ACM MobiHoc03, Publicity co-chair;
Mobiquitous 2004, General co-chair; Mobiquitous 2005, Member of the Steering Committee;
IEEE SECON 2006, Technical Program co-chair,
ACM WUWNET 2007, Technical Program co-chair
IEEE EHMEWC 2013 (ICC2013 Workshop), co-organizer
IEEE MASSAP 2014 and 2015 (ICC Workshop), co-organizer
IEEE WCNC 2016, Track co-chair

Member of the technical program committee for international conferences: more than 50, including most major conferences in the field. Invited speaker, keynote speaker, panelist at several international conferences.

INSTITUTIONAL RESPONSIBILITIES

Chair of the Masters program in Telecommunications Engineering, Univ. of Padova, 2013-present

COMMISSIONS OF TRUST

Editor in Chief of the IEEE Wireless Communications Magazine, January 2003 - December 2005;

Editor in Chief of the IEEE Transactions on Communications, January 2008 - December 2011;

Editor in Chief of the IEEE Transactions on Cognitive Communications and Networking, August 2014 - present;

Editor for Europe for the Wiley Journal on Wireless Comm. and Mobile Computing, 1999-2013;

Guest Editor for the IEEE Personal Comm. magazine (in particular, special issue on "Cognitive Networks," August 2007) and for three special issues of the IEEE Journal on Selected Areas in Comm. and several IEEE magazines (IEEE Wireless Communications and IEEE Network)

Member of the editorial board: IEEE Personal Communications magazine, 1996-2005; ACM Journal of Wireless Networks, 1998-2010; IEEE Journal on Selected Areas in Communications - Wireless Series, 1999-2000; IEEE Transactions on Wireless Communications, 2001-2007; IEEE Transactions on Mobile Computing, 2002-2005; IEEE Transactions on Communications, 2002-present.

Member-at-Large, IEEE Communications Society Board of Governors, 2009-2011

Member-at-Large, IEEE Communications Society Publications Council, 2012-2013

Director of Education and Training, IEEE Communications Society, 2014-2015

Member, IEEE PSPB Products and Services Committee, 2016

PUBLICATIONS

We provide here the main bibliometric data of the PI. Michele Zorzi has published more than 200 journal papers and 400 conference papers, all peer-reviewed.

Google Scholar statistics (<https://scholar.google.com/citations?user=Z7d93ZYAAAAJ>): total citations: 24117; most cited paper: 1586; papers with 1000+ citations: 2; papers with 100+ citations: 49; h-index: 72; i10-index: 377.. (all data as of Jun. 05, 2018, includes self-citations).

As shown by these citation records, the PI's research has had significant impact on the scientific community, and he has shown the ability to open new areas of investigation and/or be an early pioneer (examples include energy-efficient networking, Markov channel modeling, cross layer design, cognitive networks, underwater networking).

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

Institute of the Electrical and Electronics Engineers (IEEE), 1989-present (Fellow since 2007); Associazione Elettrotecnica Italiana (AEIT) , 1989-present; Association for Computer Machinery (ACM), 2002-present.

MAJOR COLLABORATIONS

The PI and his team have strong research contacts and scientific collaborations throughout the world. Academic institutions with which they had joint authorship or exchange of personnel include: (i) on topics related to cognitive networks: Stanford, USC, UIUC, UCSD, UCLA, Penn State Univ., NYU, NJIT, CTTC (Spain), DLR, RWTH Aachen (Germany); (ii) on other topics: NUS (Singapore), Scripps at UCSD, INRIA (France), MIT. Companies with which we had joint authorship or from which we received funding include: (i) on topics related to the project: Qualcomm, ST Microelectronics, Ericsson (ii) on other topics: NTT DoCoMo, Lucent Bell Labs, IBM, Telecom Italia, Alcatel, WASS (Finmeccanica group), Huawei, Intel.

GRANTED PATENTS

Zanella A., Zorzi M, Maguolo F, Merlin S, Baldo N, Siorpaes, D, Melpignano D., I. Polato, R. Maguolo, S. Maguolo (2008). "Cross layer optimization in multimedia communications," PCT/12/347,852, United States Patent Application 20100165856, Application Date: 2008-12-31, Publication Date: 2010-07-01, Patentee: STMicroelectronics S.p.A.

Zanella A., Zorzi M, Maguolo F, Merlin S, Baldo N., Siorpaes, D, I. Polato, R. Maguolo, S. Maguolo, "Link Adaptation In Wireless Networks," PCT/12/347,874 (2008), United States Patent Application 20100169723, Application Date: 2008-12-31, Publication Date: 2010-07-01. Patentee: STMicroelectronics S.p.A.

Zanella A., Zorzi M, Maguolo F, Fasolo E, Ruffino S, Stupar P. (2006). "Method for routing in a local mobile communication network." PCT/EP2006/010465. United States Patent Application 20100061352, Application Date: 2006-10-31, Publication Date: 2010-03-11. Patentee: Telecom Italia S.p.A.

Rossetto F., Zorzi M. (2009). "A data transmission method using OFDM, Physical Layer Network Coding, and decoding of a signal superposition." European Patent 2264929, Application Date: 2009-06-19, Publication Date: 2010-12-22. Patentee: DLR – Deutsches Zentrum für Luft- und Raumfahrt e.V.

INVITED PRESENTATIONS

Keynote speaker at the following eight conferences/events: IEEE ICNC 2017, MoWNet 2014, IEEE IWCMC 2012, UCOMMS 2012, Wireless Days 2010, European Wireless 2010, COST2100/CONET/NEWCOM++ Training School and Workshop 2010, 4th Euro-NGI Conf. 2008, INSS 2005.

Invited speaker at international conferences (including several editions of IEEE/ACM IWCMC, all editions of ITA Workshop), IEEE ICNC 2015 and 2016

ORGANIZATION OF INTERNATIONAL CONFERENCES

Mobiquitous 2005, Member of the Steering Committee; IEEE SECON 2006, Technical Program co-chair; ACM WUWNET 2007, Technical Program co-chair; IEEE EHMEWC 2013 (ICC2013 Workshop), co-organizer, IEEE MASSAP 2014 (ICC2014 Workshop), co-organizer, IEEE MASSAP 2015 (ICC2015 Workshop), co-organizer, IEEE WCNC 2016 (Networking track co-chair).

INTERNATIONAL PRIZES/AWARDS/MEMBERSHIPS

IEEE Fellow, 2007; several Laurea awards and research fellowships; Best Tutorial Paper Award, IEEE Communications Society, 2008; COMSOC Education Award, IEEE Communications Society, 2016; Other best paper awards: IEEE CAMAD, 2006, IEEE GLOBECOM (Wireless Networks Symposium) 2007, European Wireless Conference 2009, European Wireless Conference 2016.

MAJOR CONTRIBUTION TO THE EARLY CAREER OF EXCELLENT RESEARCHERS

Among the young researchers the PI has supervised as students and post-docs are: Prof. Michele Rossi (PhD 2004, now Asst. Prof. Univ. of Padova, h-index: 30); Prof. Leonardo Badia (PhD 2004, now Assoc. Prof. Univ. of Padova, h-index: 25); Prof. Paolo Casari (PhD 2008, now Asst. Res. Prof. IMDEA Networks, h-index: 25); Prof. Marco Levorato (PhD 2008, now Asst. Prof. UC Irvine, h-index: 97);); Dr. Nicola Baldo (PhD 2009, now with CTTC, h-index: 25); Dr. Nicolo Michelusi (PhD 2013, now Asst. Prof. Purdue University, h-index: 14);

FUNDED RESEARCH

Michele Zorzi has been PI or co-PI for more than ten EU funded projects, as well as more than 20 other projects funded by different funding agencies in the EU and the US, including the European Commission, the Italian Government, the US Government and industrial companies (the total funding raised exceeds 8 MEur).

Funded projects during the past 10 years: (1) CLAM 06/2010-08/2013, on Underwater Acoustic Networking (EU STREP in FP7-ICT, 300 KEur); (2) MEDIEVAL, 07/2010-06/2013, on Video in Cellular Networks (EU STREP in FP7-ICT, 400 KEur); (3) IoT-A, 09/2010-08/2013, on Internet-of-Things Architecture (EU IP in FP7-ICT, 700 KEur); (4) ONR 04/2010-09/2012, on Underwater Acoustic Networking (funded by the US Gov., 200 KEur); (5) SAPHYRE 01/2010-12/2012 on Resource Sharing in Wireless Networks (EU STREP in FP7-ICT, 290 KEur); (6) NAUTILUS 02/2010-10/2013 on Underwater Acoustic Networking (funded by local Foundation, 790 KEur);

Funded projects during the past 10 years on topics related to the present proposal: (7) subaward to UniPD within ARO COGNET 09/2009-08/2014, on Cognitive Networking (funded by the US Government at UC San Diego, Phase I (55K\$) and Phase II (33K\$)); (8) project on cognitive networking funded by a local Foundation 09/2012-08/2015 (200KEur); (9) project on Energy and Context-centric IoT (EC-CENTRIC), funded by Intel Corp, 12/2015-11/2018 (500KEur).

Older EU projects include: EYES, Ambient Networks, ARAGORN, e-SENSE, SENSEI, NEWCOM, NEWCOM++, in addition to several projects funded by the Italian Government and by industrial companies. In 2003-2008, the PI was part of a team of 13 co-PIs for a large US ARO MURI project (5.9M\$).

INDUSTRY LEADERSHIP

The PI is the co-founder of Patavina Technologies s.r.l., a high-tech spinoff company of the University of Padova (2009) working in the area of telecommunications software systems for the Internet of Things, that was recently acquired by a multi-utility company based in Northern Italy.

<https://www.a2a.eu/en/a2a-acquires-start-patavina-technologies-develop-innovative-solutions-internet-things>