

CV: Marco Chiani

CURRICULUM VITAE

Name: Marco Chiani
 Present Occupation: Professor
 Affiliation: Dept. of Electrical, Electronic and Information Engineering "G. Marconi"
 University of Bologna
 E-mail:

EDUCATION

University of Bologna, Italy, Dr. Ing. degree (*summa cum laude*), 1989
 University of Bologna, Italy, Ph.D. (Electronic and Computer Engineering), 1993

PROFESSIONAL HISTORY

2001-present Professor, University of Bologna, Italy
 1998-2001 Associate Professor, University of Bologna, Italy
 1994-1998 Assistant Professor, University of Bologna, Italy

AWARDS

- IEEE Fellow for "Contributions to wireless communication systems"
- The 2012 IEEE Communications Society Fred W. Ellersick Prize for to the best article published in a Communications Society magazine
- The 2012 IEEE Communications Society Stephen O. Rice Prize in the Field of Communications Theory
- Distinguished Visiting Fellow of the Royal Academy of Engineering, UK, 2012.
- Distinguished Lecturer, IEEE COMSOC, 2011-2013.
- The 2011 Leonard G. Abraham Prize in the Field of Communications Systems from the IEEE Communications Society.
- ICNEWS award, "For Fundamental Contributions to the Theory and Practice of Wireless Communications"
- Outstanding Service Award, 2008 IEEE ComSoc Radio Communications Committee
- Best Paper Award, IEEE ICC2008
- Best Paper Award, 2007 IST Mobile & Wireless Communication Summit
- Best Paper Award, IEEE ICC2008, IWCMC 2006.
- Technical Recognition Award, 2010, IEEE COMSOC Radio Communications Committee for "Contributions to high-spectral efficiency wireless communications".

PROFESSIONAL SERVICES

Professor Chiani has chaired, organized sessions and served on the Technical Program Committees at several IEEE International Conferences, such as IEEE-ICC 2002 (New York, USA), IEEE-Globecom 2002 (Taipei, Taiwan), UWBST 2003, IEEE-Globecom 2003 (S. Francisco, USA), UWBST&IWUWBS 2004, Japan, IEEE-ICC 2004 (Paris), IEEE-Globecom 2004 (Dallas, USA). He was Co-Chair of the Wireless Communications Symposium at ICC 2004, Co-Chair of PIMRC 2010 (track 3), Co-chair of the IEEE Communication Theory Symposium at ICC 2011, TPC Co-chair of the IEEE Comm. Theory Workshop 2011, general co-chair of IEEE ICUWB 2011, Tutorials Co-Chairs for the 2013 IEEE International Conference on Communications, TPC Co-chair of the IEEE ICC 2016 - Communications Theory Symposium, Track Chair of EUSIPCO 2016, Track Chair of EUSIPCO 2017, TPC Chair of IEEE ISWCS 2017, Co-chair of the "IEEE Communication Theory Symposium" IEEE Globecom 2020, Industry Panel Chair IEEE Globecom 2021.

He is the past chair (2002–2004) of the Radio Communications Committee of the IEEE Communication Society and past Editor of Wireless Communication (2000–2007) for the journal IEEE Transactions on Communications.

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He was/is evaluator for research projects proposals presented for funding to the Research Grants Council, Hong Kong, China.

On invitation, he was a panelist to evaluate, in 2003, research proposals presented to the USA National Science Foundation (NSF) for the “Wireless & Optical Communications Research Panel”.

He has been (2009-2014) the appointed member for Italy within the COST ICT Domain Committee.

He is an evaluator for research projects for the Italian ministry of research “Ministero dell’Università e della Ricerca Scientifica”.

He served as chair (2013-2014) of the international prize IEEE "Eric E. Sumner Award", assigned for outstanding contributions to communications technology.

He served as chair (2016-2017) of the international prize IEEE "Kiyo Tomiyasu Award", assigned to recognize outstanding early to mid-career contributions to technologies holding the promise of innovative applications.

PUBLICATIONS

Prof. Chiani has published more than 300 papers in international journals and conferences in the wireless communications area with special emphasis on: theoretical (Shannon) capacity of multiple input multiple output (MIMO) wireless communication systems; analysis of the distribution of Wishart random matrices: statistical distribution of the eigenvalues for uncorrelated and correlated Wishart matrices, and applications to wireless communication systems; design and analysis of low-density parity-check codes (LDPC) for terrestrial and space applications; ultra Wide Bandwidth communication and localization systems (UWB); joint source and channel coding/decoding for wireless multimedia communication; signals detection and estimation; Spectrum Monitoring and Cognitive Radio; Compressive Sensing; Internet of Things; quantum information.