

Alessandro Guidotti received the Dr. Ing. Degree (*magna cum laude*) in Telecommunications Engineering and the Ph. D. in Electronics, Computer Science, and Telecommunications from the University of Bologna (Italy) in 2008 and 2012, respectively. In 2012 he joined the **Department of Electrical, Electronic, and Information Engineering (DEI)** at the University of Bologna, where he is currently **Professor** of "**Telecommunication Software and Laboratory**" for the First cycle degree programme in Electronics and Telecommunications Engineering.

The Ph. D., from 2008 to 2012, was funded by Fondazione Ugo Bordoni (Technical Body of the Italian Administration) and focused on "Cognitive Radios for Spectrum Management." During this period, he was **representative for the Italian Administration** within CEPT SE-43 working group on Cognitive Radios. He also attended to CEPT CPG PT-D meetings. During 2011, he was also visiting Ph. D. student at **SUPELEC (Paris, France)** working on "Stochastic Geometry: Modelling of the Interference of Distributed Wireless Networks and its Application to the Analysis and Design of Cognitive Radio Networks, Network-Coded Cooperative Systems, and MIMO Transceivers."

From 2012 to 2014, he was Post-Doctoral Researcher within DEI at the University of Bologna. During 2012, he was also visiting researcher at SUPELEC (Paris, France) working on "Stochastic Geometry for Interference Characterization and Performance Analysis in Heterogeneous Wireless Networks."

From 2014 to 2021, he was Research Associate within DEI at the University of Bologna. During 2018, he was visiting researcher at SnT (Interdisciplinary Centre for Security, Reliability and Trust), University of Luxembourg, working on Machine Learning and Neural Network solutions for precoding and 5G PHY/MAC in Non-Terrestrial Networks.

From 2021, he is a Senior Researcher within **Consorzio Nazionale Interuniversitario per le Telecomunicazioni (CNIT)**, working at the Research Unit of the University of Bologna, DEI department.

Dr. Guidotti participates in **National and International research projects** on satellite and terrestrial mobile communication systems, and contributes to the preparation and coordination of several projects funded by the **European Commission** and the **European Space Agency**. His research interests are in the area of wireless communication systems, Satellite Communications for 5G and 6G systems, Radio Resource Management, heterogeneous networks, and digital transmission techniques.

He is a member of the **Technical Panel on Glue Technologies for Space Systems Technical Panel** (IEEE Aerospace & Electronic Systems Society) and a member of the **Editorial Board of the Aerial and Space Networks journal** (Frontiers). Since 2016, he is **TPC and Publication Co-Chair of the IEEE ASMS/SPSC Conference**.

Dr. Guidotti authored and co-authored more than 45 scientific contributions in conference and journal papers or books. He was winner of the *Lions Club Prize for the Best Master Degree Thesis* in 2008, and co-recipient of the *2014 Newcom# Best Paper Award* and of the *2011 World University Network CogCom paper Award*.

Dr. Guidotti serves as Technical Programme Committee member for major conferences and is **IEEE member** since 2004. He was **Lead Guest Editor** of the Special Issue on the Wiley International Journal of Satellite Communications and Networking on "*Integrated Satellite-Terrestrial Networks in Future Wireless Systems*."