

Gaetano Marrocco Short Bio

Gaetano Marrocco MS in Electronic Engineering and Ph.D. in Applied Electromagnetics from the University of L'Aquila, Italy, in 1994 and 1998, respectively. Researcher at the University of Roma Tor Vergata in 1994-2014. Associate Professor of Electromagnetics in 2013-2017, Full Professor at the University of Roma Tor Vergata since 2018. He currently serves as Director of the Medical Engineering School.

The first phase of his career was devoted to the research on Time-Domain electromagnetics with application to structural, broadband, and ultra-wideband antennas for Satellite (ESA, ASI), Avionic, and Naval (Leonardo) communications. Then, since 2002 he is investigating sensor-oriented miniaturized antennas for Biomedical Engineering and Radiofrequency Identification (RFID), contributing to the move from the RF labeling of objects to the passive sensor networks in the Internet of Things era. He carried out pioneering research on bodycentric battery-less wireless sensors concerning textile RFID antennas, tattoo-like sensors (flexible and stretchable epidermal electronics), and radio-sensors embedded inside implanted prostheses.

He served for many years as Associate Editor for the IEEE Journal of Radiofrequency Identification, as member of the IEEE Antennas and Propagation Society Awards committee, and currently he is AE of the IEEE Journal of Flexible Electronics. Moreover, he is the chair of the Italian delegation URSI Commission D Electronics and Photonics. He was the chair of the Local Committee of the V European Conference on Antennas and Propagation (EUCAP-2011), TPC chair of the 2012 IEEE-RFID TA in Nice, France, TPC track-chair of the 2016 IEEE Antennas and Propagation Int. Symposium, TPC track-chair of IEEE-RFID 2018-22, USA and co-chair of the 2024 IEEE FLEPS in Finland.

Prof. Marrocco is the director of the Pervasive Electromagnetics Lab (www.pervasive.ing.uniroma2.it) and the co-founder and president of the University spin-off RADIO6ENSE (www.radio6ense.com), which is active in the short-range electromagnetic sensing for the Industrial Internet of Things, Smart Manufacturing, Automotive and Medical Device.

He is listed in the PLOS ranking of Top 2% Scientists Worldwide (source Univ. Stanford, 2023).