

## **CURRICULUM VITAE ADRIANA BRANCACCIO (updated February 2022)**

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**Adriana Brancaccio** graduated summa cum laude in Electronic Engineering in January 1991 at the University of Naples Federico II, where in 1994 she obtained the Ph. D. in Electronic Engineering. From 1994 to 2000 she was a researcher and from 2001 she is an associate professor of Electromagnetic fields at the Università degli Studi della Campania Luigi Vanvitelli (formerly Second University of Naples), where she is a member of the Department of Engineering.

She is a member of the National Inter-University Consortium for Telecommunications (CNIT), of the Italian Society of ElectroMagnetism (SIEM), of the European Microwave Association (EuMA), and of the Institute of Electrical and Electronics Engineers (IEEE).

She has been a founding member in 2011 and National Secretary of the CoNPAss (National Coordination of Associate Professors).

She has carried out her teaching activity mainly in the degree courses of the Information Engineering class at the University of Campania Luigi Vanvitelli, "Antennas and Propagation" and " Electromagnetic fields and microwave engineering " course for the master's degree in Electronic Engineering; "Electromagnetic fields" and "Laboratory of electromagnetic fields" for the three-year degree in Computer Engineering and Electronics; "Electromagnetic Technologies for Wireless Systems" for the Master's Degree in Computer Engineering. She has also held courses in 2nd level master's programs.

She has been a member of colleges of Ph.D. professors, in which she held courses and seminars, and was a member of examining commissions for admission to the courses and of national commissions for the final doctoral examination.

Adriana Brancaccio carries out her scientific activities in inverse electromagnetic scattering, with contributions on mathematical models and the application aspects, and with verification of both simulated and experimental data. The main interests are the non-destructive diagnosis of masonry, the tomographic processing of georadar data for subsurface prospecting, the localization and shape reconstruction of metallic and dielectric objects.

In 1996 she founded the Applied Electromagnetics Laboratory at the Engineering Department of the Luigi Vanvitelli University of Campania, where she is still in charge.

She collaborated in research projects on electromagnetic diagnostics funded by the Ministry, the European Community, the Campania Region, the Italian Space Agency, including TEMPES (Innovative Technologies and Technologies for the Seismic Protection of Historic Buildings, within the NOP "Research, Technological Development, Higher Education" 2000-2006), PRIN 2005 "Innovative non-invasive system for the measurement of the high frequency electromagnetic field", MODIS "Diagnostics and monitoring of civil structures and networks of transport and service through distributed sensors in fiber optics that can be integrated with the telecommunications networks ", as part of measure 3.17 of the POR Campania 2000/2006," Development and Industrialization of Radiofrequency Systems and Electromagnetic Windows (SIRena) ", financed by the Ministry of Economic Development and WISCH funded by the POR Campania ERDF 2007-2013.

She participated as a member of the CNIT in the European project funded under the 7th framework program "D-BOX Demining tool-BOX for humanitarian clearing of large scale areas from anti-personnel landmines and cluster munitions" (<http://www.d-boxproject.eu/>).

She has been scientific coordinator for the Engineering Department of the IDROS project funded by MISE (2018 - 2020).

She is a member of the advisory board of the ALIGNER - Artificial Intelligence Roadmap for Policing and Law Enforcement project, funded by the EU - H2020, ongoing from 2021 to 2024.

She participates in the PON project "FORCE- Formation flying of Cubesat assemblies for remote sensing".

She has been the scientific manager of third-party research agreements stipulated by the Department. She took part in the activation and implementation of agreements with important industries, including Selex Galileo with the project "Active sparse multi-sensor network for quick detection/imaging".

She was a member of the Commission for the qualification exam as an engineer in 2014. She was a member of the Fondimpresa Scientific Technical Committee Notice 3/2015 PIANO AVI / 18/15 "INNOVATING THE TERRITORIAL INFORMATION SYSTEMS" approved by the CDA Fondimpresa on 03/12/2015 (GEOS LAB). She

has been an elective member of the Board of the Engineering Department and of the Council of the Polytechnic and Sciences School since March 2018.

She is the coordinator of the Master's degree course in Electronic Engineering. She takes part in the departmental permanent commission AVA-2 for the quality of teaching. She is a reference point for the quality of the Degree Program in Electronic Engineering LM-29.

She has worked as a reviewer for numerous international journals, including IEEE Transaction on Geoscience and Remote Sensing; IEEE Geoscience and Remote Sensing Letters; IEEE Journal of Selected Topics in Applied Earth Observations, and Remote Sensing; IEEE Transactions on Computational Imaging; Inverse Problems; IEEE Open Journal on Antennas and Propagation; Near Surface Geophysics; Subsurface Sensing Technologies and Applications; Acta Astronautica; Journal of Electromagnetic Waves and Applications; International Journal of Geophysics; International Journal of Antennas and Propagation; Journal of Geophysics and Engineering. She has been guest editor of the special issue "Computer Methods for Direct and Inverse Modelling and Simulation" and she is serving as the guest editor for the special issue "Advances in Non-Destructive Diagnosis of Masonry" on MDPI Applied Sciences.