

Self-Assessment and Guidance Board Cycle XLI

(Approved by the Faculty Board on 27/02/2026)

Self-Assessment Board

Prof. Raffaele Solimene

Professor, Engineering Department
raffaele.solimene@unicampania.it

Prof. Andrea Sellitto

Associate Professor, Engineering Department
andrea.sellitto@unicampania.it

Dott. Robert De Marco

PhD Student, Industrial and Information Engineering
robert.demarco@unicampania.it

Guidance Board

Prof. Raffaele Solimene

Prof. Andrea Sellitto

Dott. Robert De Marco

Prof. em. Reimund Neugebauer

President (retired), Fraunhofer-Gesellschaft, Munich, Germany
reimund@neugebauer.ch

Prof. Lucia Bilro

Chief Technology Officer, Watgrid, Aveiro, Portugal
lucia.bilro@av.it.pt

Dott. Ing. Luigi Buonanno

Director of System Testing and Validation, Hitachi Rail STS, Paris, France
luigi.buonanno@hitachirail.com
Former PhD student at University of Campania Luigi Vanvitelli

Dott. Ing. Domenico Giordano

Primo Ricercatore, INRIM, Turin, Italy
d.giordano@inrim.it

RAFFAELE SOLIMENE

Prof. Solimene (Senior Member, IEEE) received the Laurea degree (summa cum laude) in Electronic Engineering in 1999 and the Ph.D. degree in Electronic Engineering in 2003 from the Second University of Naples. In 2002 he joined the Mediterranean University of Reggio Calabria as Assistant Professor. Since 2006 he has been with the Department of Engineering of the University of Campania Luigi Vanvitelli, where he is currently Full Professor of Electromagnetic Fields. His research interests include electromagnetic inverse source and inverse scattering problems, information content and degrees of freedom of electromagnetic fields, microwave radar imaging, ground penetrating radar (GPR), through-the-wall imaging (TWI), biomedical microwave sensing, automotive radar, RCS estimation from near-field data, and array antenna synthesis and diagnostics. Prof. Solimene has authored or co-authored more than 300 scientific publications in international journals, conferences, and book chapters. He has been principal investigator or local coordinator of several national and international research projects and has delivered numerous invited talks at international conferences and research institutions. He has organized and chaired many scientific sessions in major conferences such as PIERS, URSI, ICEAA, and CAMA. He currently serves as Coordinator of the PhD Programme in Industrial and Information Engineering at the University of Campania Luigi Vanvitelli (XXXIX and XL cycles), and as a member of the Board of Directors of the National Inter-University Consortium for Telecommunications (CNIT). He is also Associate Editor for several journals, including IEEE Geoscience and Remote Sensing Letters. He is a Senior Member of IEEE and URSI and a member of the Italian Society of Electromagnetism (SIEM) and CNIT.

ANDREA SELLITTO

Dr. Sellitto works in the field of Aerospace Structures and Construction. He received his PhD in Aerospace Science and Technology from the University of Campania "Luigi Vanvitelli", where he carried out research on numerical methods for finite element models and structural simulation in aeronautics, in collaboration with CIRA (Italian Aerospace Research Centre) within the framework of the European FP7 project gFEM. His research activity mainly focuses on the modeling and simulation of aerospace structures, with particular emphasis on composite materials, damage initiation and evolution mechanisms, structural repair techniques, and the development of advanced design and structural optimization methodologies. He has participated in numerous national and international research projects and coordinated the international research group GARTEUR AG-37, dedicated to the study of shock absorbers for industrial applications. He is Associate Professor in IIND-01/D (Costruzioni e Strutture Aerospaziali) at the University of Campania "Luigi Vanvitelli", where he teaches Aeronautical Construction, Applied Aeroelasticity and Aerospace Structures and Construction. He is also co-founder of the academic spin-off Delphi 3D Technologies, focused on technology transfer in the field of innovative materials and additive manufacturing technologies.

ROBERT DE MARCO

Robert De Marco is a PhD student in Industrial and Information Engineering, cycle XLI. His research activity focuses on the development of finite element models for crashworthiness analysis of innovative aerospace structures. He received the MSc in Aerospace Engineering in 2025 at University of Campania Luigi Vanvitelli. He currently serves as a representative of the PhD students elected within the Faculty Board of the Doctorate.

REIMUND NEUGEBAUER

Prof. Dr. Neugebauer is regarded as one of the most renowned scientists and researchers in the field of production technologies and forming technology in Germany. Elected in 2012 as the 10th President of the Fraunhofer-Gesellschaft, he drove global excellence through innovation and fostering collaboration between academia, industry, and government until 2023 boosting the development of Fraunhofer from 18.000 researchers and a budget of 1.9 billion Euro to 30.000 employees and a budget of 3 billion euros. From 1992 to 2012, Prof. Neugebauer was Director of the Fraunhofer Institute for Machine Tools and Forming Technology (IWU) in Chemnitz, transforming it into a globally respected partner for the automotive and mechanical engineering sectors. At TU Chemnitz, he held the position of managing director of the Institute for Machine Tools and Production Processes (IWP) from 2000 to 2012, as well as the position of Dean of the Faculty of Mechanical Engineering from 2003 to 2006. Prof. Dr. Neugebauer's influence extends way beyond his executive roles. He is a member of the German National Academy of Sciences Leopoldina, acatech (the German Academy of Science and Engineering), and advises the Fukushima Research, Innovation and Education Institute in Japan (F-REI) to name only a few. He also served on the steering committee of Germany's Innovation Dialogue, the Chancellor's Future Council as well as Hight-Tech-Forum, advising the Federal Government on high-tech strategy and innovation policy. Prof. Neugebauer is an honorary professor at Hebrew University, Michigan State University, KU Leuven and Technical University Munich, among others.

LUCIA BILRO

Dr. Bilro is the CTO and co-founder of Watgrid, where, together with an amazing team, she has been developing Winegrid® that is a proprietary solution designed to help winemakers better monitor their wine production processes in real time and remotely. On the academic front, she holds a PhD in Physics. As a Researcher at the Instituto de Telecomunicações in Aveiro (Portugal), Lucia Bilro worked extensively in the conceptual design of optical components, particularly in the development of fiber Bragg gratings and low-cost optical fiber sensors for different applications namely 3D optical printing, green photonics and water quality assessment.

LUIGI BUONANNO

Dr. Buonanno is the Director of System Testing and Validation at Hitachi Rail STS in France, with extensive international experience in the railway industry. Currently director of system testing and validation activities within the System Validation Department at Hitachi Rail STS, leading a large team of professionals. Luigi Buonanno has led major international railway signalling projects for Hitachi Rail STS. He currently serves as Principal Advisor for the Baltimore CBTC Project, coordinating integration activities and client validation. Previously, he managed the MBTA Northside ATC upgrade in Boston and directed the AutoHaul® driverless freight system in Australia. Earlier, he oversaw the technical delivery of four CBTC

Ankara Metro. Luigi Buonanno holds a GAP-L (Global Advanced Program for Leaders) from INSEAD in Singapore and completed the Future Leaders International General Management Program, jointly organized by The Wharton School and SDA Bocconi School of Management, between 2013 and 2016. He earned a PhD in Electronic Engineering in 2013 and an MSc in Electronic Engineering in 2003, both from the Second University of Naples (then University of Campania Luigi Vanvitelli), Italy.

DOMENICO GIORDANO

Dr. Giordano received his PhD in Electrical Engineering from the Polytechnic University of Turin in 2007. Since 2010, he has been a permanent Researcher at the National Institute of Metrological Research (INRIM), Turin, within the Quality of Life Division. He currently holds the position of Senior Researcher. He is the author of more than 100 scientific publications, the inventor of two patents, and the recipient of the prestigious Intellectual Property Award (IPA 2024) granted by the Italian Ministry of Industry and Made in Italy. He has participated in numerous European research projects in the energy sector and has coordinated the EMPIR 16ENG04 MyRailS, EPM 22NRM04 e-TRENY, and EPM 22NRM06 ADMIT projects, as well as three industrial research projects. His research activities focus on the development and characterization of voltage and current transducers and measurement systems for calibration and power quality assessment in medium-voltage networks and railway power supply systems. His work also includes the calibration of on-board train energy meters and the development of diagnostic techniques for railway pantographs, exploiting conducted effects generated by pantograph-catenary detachment phenomena. In addition, he is involved in the development of electromagnetic field generation and measurement systems for calibration and dosimetric applications. He is a member of the Italian Technical Committees CT 9 and CT 38, the European Technical Committees TC 9X and TC 38, and the International Technical Committees TC 9 and TC 38. He is currently engaged in the revision of European and international standards related to on-board electrical energy measurement for trains, and in the drafting of a new standard on reversible railway substations.