

Self-Assessment and Guidance Board Cycle XL

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Self-Assessment Board

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ALESSANDRO FORMISANO

Alessandro Formisano (Senior Member, IEEE) is a Full Professor with the Università della Campania "Luigi Vanvitelli." His scientific activity started in 1996, in cooperation with several research groups active in the fields of electromagnetic fields and devices (e.g., EdF Paris, TU-Graz, TU-Budapest, TU-Ilmenau, TU-Bucharest, Slovak Academy of Science, and Grenoble University), and thermonuclear controlled fusion (KIT, ITER, Fusion For Energy, and EURATOM). His interests are electromagnetic fields computation, neural networks, robust design and tolerance analysis, thermonuclear plasmas identification, optimal design, and inverse problems in electromagnetism. He serves as an Editorial Board Member or a Reviewer for the most prestigious journals (IEEE TRANSACTIONS ON MAGNETICS, COMPEL, Sensors, and ACES Journal) in the field of numerical computation of electromagnetic fields.

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 glFEM. 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.

ROBERTA BOTTIGLIERO

Roberta Bottigliero is a PhD candidate at the Department of Engineering of the University of Campania "Luigi Vanvitelli", where she conducts research in the field of aerospace engineering and computational fluid dynamics.

She obtained her Master's degree in Aerospace, Mechanical and Environmental Engineering at the same university and is currently continuing her academic and scientific training through her doctoral studies.

Her research activity focuses in particular on aerodynamics and CFD simulations applied to the study of the dynamic stability of aircraft configurations. She is co-author of scientific publications in the field of computational aerodynamics, including studies on the estimation of stability derivatives in the transonic regime through numerical simulations.

She collaborates in the research activities of the Department of Engineering, contributing to the development of numerical models and advanced methodologies for the analysis of aerodynamic flows. Her work is part of the research activities of the university's aerodynamics and computational fluid dynamics group.

FRANCESCO PIZZO

Francesco Pizzo is a Project Manager in the Research & Innovation Department at ELT Group, where he is involved in the management of national and European defense research projects, with particular focus on electronic warfare systems and system engineering. He received his PhD in Industrial and Information Engineering from the University of Campania "Luigi Vanvitelli", where his research focused on computational electromagnetism and high-performance computing techniques applied to thermonuclear fusion devices. During his doctoral studies he was also a Visiting PhD researcher at the Joint European Torus (JET) in the United Kingdom, working on advanced models for the simulation and analysis of fusion plasmas. Before joining ELT Group, he worked as an R&D Innovation Engineer at RFI (Rete Ferroviaria Italiana), contributing to the design and development of safety-critical railway signaling systems using model-based systems engineering methodologies. Earlier in his career he worked as an Electronic Warfare Communication Engineer at Elettronica S.p.A. and as an engineer at Micron Technology. His main research and professional interests include electronic warfare, system engineering, high-performance computing, and advanced modelling techniques.

RAFFAELE SALVATORE DONELLI

Raffaele Salvatore Donelli is an aeronautical engineer with extensive experience in aerospace research and innovation. After graduating with honors in Aeronautical Engineering, he spent a large part of his career at CIRA – the Italian Aerospace Research Centre, where he held positions as senior researcher, unit manager, and programme manager, focusing in particular on aerodynamics and computational fluid dynamics.

Throughout his career, he has coordinated and managed numerous national and European research projects and has collaborated with major international organizations in the aeronautical sector. He also worked at the European Joint Undertakings Clean Sky and Clean Sky 2 in Brussels, contributing to the management and monitoring of research and innovation programmes in aviation.

His experience combines scientific expertise, complex programme management, and strategic research development. He is currently engaged in technological innovation activities and in transferring research outcomes to the aerospace industrial sector.

ANTONIO MANNA

Antonio Manna graduated (summa cum laude) in Electronic Engineering from the Second University of Naples in 2004. He obtained his PhD in 2008 with a thesis entitled "UWB Radiating Element Design for Electronic Defense Application". Since 2005 he has worked at Elettronica S.p.A. Since 2019 he has been responsible for Elettronica S.p.A. of all funded and co-funded research projects for the development of evolutionary and disruptive HW technologies. He is co-author of over 40 scientific publications in Antennas and Microwaves fields. Furthermore, he is the winner of 8 Innovation awards from Elettronica S.p.A. and holds 4 patents.

PASQUALE FRANCIOSA

Pasquale Franciosa received the PhD degree in Mechanical Engineering from the University of Naples Federico II, Italy, in 2010. He is a Professor with the University of Warwick, Coventry, U.K., and the Head of the Laser Welding Applications Laboratory, Warwick Manufacturing Group, University of Warwick. He has been Principal Investigator (PI) and Co-Investigator (Co-I) on several funded projects with a total income to the University of Warwick of circa £2.8M since 2015. He has authored or coauthored more than 80 papers. His research interests include smart manufacturing, process monitoring, closed-loop control, applications of machine learning/artificial intelligence, and multidisciplinary optimization, with specific attention on assembly systems and laser processes. Prof. Franciosa was the recipient of four Best Paper Awards. He is a Member of the Editorial Board of the ASTM Smart and Sustainable Manufacturing Systems journal.