

SMART TECHNOLOGIES AND MODELLING FOR AVIONICS

The aircraft industries need intense research activities to improve the flight services and in particular to increase performances and safety. New trends about structural aspects and devices development are in progress every day exploiting innovative materials, shapes, components and electrical and electronic systems. All these efforts are dealing to a modern avionic environment where the new technologies can be helpful for atmospheric and space vehicles, such as fixed-wing aircraft, rotary-wing aircraft, launchers, return vehicles, satellites, space stations, etc. This sector concerns the study of aeroelastic phenomena, static and dynamic analysis, active control of structures, non invasive systems for monitoring, structural safety, electrical safety, electromagnetic compatibility, repairs and maintenance. The aim of this Technical Session is to encourage exchange experiences and knowledge between researchers active on these scientific aspects and give an useful contribution for the aircraft industries enhancement.

Short Curriculum Vitae

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Short Curriculum Vitae

Alberto Milazzo was born in San Cataldo (CL), Italy. He received the M.Sc. degree in Aerospace Engineering in 1994, the Ph.D. degree in mechanics Design in 1998. From 20161 he is Full Professor of Aerospace Structures in the Department of Civil, Environmental, Aerospace, Material Engineering of the University of Palermo where he is head of the Aerospace Structures and Design research group. He is member of the Italian Association of Aeronautics and Astronauts (AIDAA) and senior member of the American Institute of Aeronautics and Astronautics (AIAA). His research activities are focused on the modeling of smart materials and structures and structural health monitoring. He is author of more than 60 papers published in international journals, and he has been invited speaker and session chair in several international conferences.

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Short Curriculum Vitae

Antonio Faba was born in Pescara, Italy. He received the M.Sc. degree in Electrical Engineering in 1998, the Ph.D. degree in Industrial Engineering in 2006 and the habilitation for Associate Professor in Electrical Engineering in 2013. From 2001 he is Assistant Professor of Electrical Engineering in the Department of Engineering of the University of Perugia where he is head of the Laboratory of Electromagnetic Characterization. He is secretary of the Italian Chapter of the IEEE Magnetic Society. His research activities are focused on the modeling and experimental characterization of magnetic materials, non-destructive diagnostic systems and electromagnetic compatibility. He is author of more than 80 technical refereed papers, two patents and he has been invited speaker and session chair in several international conferences.