Hot topic 3. Metamaterials in acoustics and vibrations

Organizer: Luís Godinho

Organizers and Key Trainers:

Luís Godinho received his PhD in 2004 and his Habilitation in 2018, both at the University of Coimbra. He is Full Professor of the Department of Civil Engineering of the University of Coimbra and has been Director of the Civil Engineering Department of the University of Coimbra (2017-2019). Presently, he is Subdirector of the Faculty of Sciences and Technology of the University of Coimbra (starting in February 2024). He is Secretary-General of the European Acoustics Association (EAA) and Vice-President of the Portuguese Acoustical Society. Since 2016, he has been member of the Director's Board of the Institute for Sustainability and Innovation in Structural Engineering (ISISE), coordinating the Research Group on Functional Performance. In October 2023 he was elected Director of the ISISE research unit. He has been developing experimental and numerical research in the field of acoustics, wave propagation and building physics. His main research interests are related to numerical methods for acoustic and vibration problems (including meshless and boundary element methods, coupling between different methods or solid-fluid interaction problems), acoustic materials and metamaterials (modelling, development and experimental characterization), building acoustics (including airborne and impact sound insulation) and railway/road noise and vibration (including modelling, characterization and mitigation). He published more than 130 papers in international peer-reviewed scientific journals, 10 book chapters and more than 200 scientific papers in the proceedings of national and international congresses and conferences. He supervised more than 50 concluded MSc and 9 concluded PhD theses. He participated and coordinated several

research projects, which received funding from official institutions and from the industry.