



UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II  
DIPARTIMENTO DI STRUTTURE PER L'INGEGNERIA E L'ARCHITETTURA  
Dottorato in Ingegneria Strutturale, Geotecnica e Rischio Sismico

**ACOUSTIC EMISSION FOR MONITORING STRUCTURAL INTEGRITY:  
FUNDAMENTALS AND APPLICATIONS**

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Dimitrios Angelis (born 1975, ORCID 0000-0002-6729-8556) is Professor of the Department of Mechanics of Materials and Constructions at the Vrije Universiteit Brussel since October 2012. Prior to this position he worked as an Assistant Professor in the Department of Materials Science and Engineering at the University of Ioannina, Greece (2008-2012) and as research fellow in the Research Institute of Technology, Tobishima Corporation, Japan (2006-2008). He received his PhD degree from the Mechanical Engineering and Aeronautics Department of the University of Patras in 2004 and his diploma in Mechanical Engineering from the same department in 1998. His main area of interest includes characterization of cementitious materials, expanding also to composites and metals by use of non-destructive inspection techniques focused on elastic wave propagation. He was the recipient of the world RILEM Robert L'Hermite medal of 2012 for his contribution in the field of construction materials and is active member of several technical committees of RILEM and the vice-chair of 269-IAM (Damage assessment in Consideration of Repair/ Retrofit-Recovery in Concrete and Masonry Structures by Means of Innovative NDT). He has published 170 papers in international journals and more than 220 in conference proceedings along with 25 chapters in books or stand-alone books. He is editor-in-chief of the journal *Developments in the Built Environment*, editor of the journal *Construction and Building Materials*, associate editor of *Materials and Structures*, associate editor of the journal of *Non-Destructive Evaluation*, the acoustics section-editor-in-chief of *Applied Sciences*, editor in *Sensors* and editorial board member of *NDT&E International*. He is currently or has been involved in teaching of *Experimental Techniques and Nondestructive Testing of Materials*, *Mechanics/Strength of Materials*, *Construction Materials*, *Dynamics of Structures*, *Structural Health Monitoring*.

The series of four seminars “Acoustic Emission for Monitoring Structural Integrity” provides a bird’s eye view of Acoustic Emission (AE) testing for structural integrity assessment, from fundamentals to applications, passing through the experimentation at DIST. This seminar introduces the fundamental principles of Acoustic Emission (AE) for monitoring the structural integrity of civil and mechanical systems.

**26/01/2026**

**10:30-11:30 and 11:45-12:45**