



UNIVERSITÀ DEGLI STUDI DELL'AQUILA

Prof. Walter D'Ambrogio

Curriculum scientifico

(Aggiornato il 2023/03/17)

PERSONAL DATA AND ACADEMIC POSITION

Walter D'Ambrogio, born in Vallecorsa (FR) on 2.06.1959, graduated in Mechanical Engineering in 1983 at the University of Rome La Sapienza. From 1985 to 1988, he completed his Ph.D. in Applied Mechanics at the same University, earning his degree in 1989. His research and teaching activity was carried out until October 1992 at the Department of Mechanics and Aeronautics of the University of Rome La Sapienza with the following qualifications:

? Assistant Professor since August 1989

Since November 1992, the research and teaching activity has been held at the DIMEG (Department of Mechanical, Energy and Management Engineering, former Department of Energy) of the University of L'Aquila with the following qualifications:

? Associate Professor of Applied Mechanics since November 1992

? Full Professor of Applied Mechanics since September 2000

TEACHING ACTIVITY

The following courses were held at the University of L'Aquila:

? Mechanics of Machines (Old system of Italian Higher Education)

? Fundamentals of Applied Mechanics (Bachelor's Degree)

? Mechanical Devices and Systems (Bachelor's Degree)

? Applied Mechanics (Bachelor's Degree)

? Mechanical Vibrations (Master's Degree)

? Principles of Flight Mechanics (Bachelor's Degree)

? Vehicle Dynamics (Master's Degree)

He is a member of the Board of the Ph.D. Program in Industrial Engineering and Information and Economics at the DIIE of the University of L'Aquila.

From November 2004 to October 2012, he was the Director of the undergraduate and graduate programs in Mechanical Engineering.

SCIENTIFIC ACTIVITY

He is the author of about 180 journal and conference papers on topics related to dynamic analysis of mechanical systems and modal analysis, and more specifically on vibration control, parametric identification of mechanical structures (dynamic model updating), substructuring and coupling, on the effect of uncertainties on the dynamics of structures, on friction induced vibrations. He has an H-index=18 evaluated by Scopus.

[Link to publication list](#)

Public profile on [Google scholar](#) (includes only part of the publications).

He was the scientific coordinator of the national research project 'Structural vibration control through modal techniques and specifically developed materials', funded by PRIN 2001.

He participated in the European program 'COST F3 Action in Structural Dynamics, Working Group 1: Finite Element Model Updating Methods'.

Staff member (2004-2006) in the international cooperation program 'Applied research and education in bioengineering' within P.O.I. 'Disposizioni per la partecipazione italiana alla stabilizzazione, alla ricostruzione e allo sviluppo dei Paesi dell'area balcanica', funded by the Abruzzo Region..

He organized the Special Session on Experimental Dynamic Substructuring within the International Congress ISMA 2010: International Conference on Noise and Vibration Engineering.

He organized the Special Session on Friction Induced Vibrations within ISMA 2014: International Conference on Noise and Vibration Engineering.

He is member of the IFToMM Technical Committee for Vibrations, formerly Technical Committee for Nonlinear Oscillations.

He is President of the Italian Association for Theoretical and Applied Mechanics (AIMETA), an adhering organization to IUTAM (International Union of Theoretical and Applied Mechanics).

He is Chair of the SEM Technical Division on Dynamic Substructures.

He is a member of the Editorial Board of Machines, an open access international journal, ISSN: 2075-1702.

He is a regular reviewer for the following international journals:

- ? Mechanical Systems and Signal Processing
- ? Journal of Sound and Vibration
- ? Shock and Vibration
- ? ASME Journal of Vibration and Acoustics
- ? Meccanica
- ? Structural Control and Health Monitoring
- ? Journal of Intelligent Materials, Systems and Structures
- ? Computer Methods for Applied Mechanics and Engineering
- ? Applied Sciences

He is a member of the Scientific Committee of several International Conferences, most recently ISMA 2022: International Conference on Noise and Vibration Engineering.

OTHER QUALIFICATIONS

He was a member of the Scientific Committee of the International Master Course in "Analysis and Control of Vibration in Civil and Industrial Applications", hosted by the University of Rome "La Sapienza" (2005, 2006)

He was a member of the Scientific Committee of the Master Course in Product Design, hosted by University of L'Aquila (2007-2008).

He is an expert appointed by MUR (Ministero Università e Ricerca) to review national research proposals.

He was a member of the panel of experts in the area of Industrial and Information Engineering, set up by ANVUR (Italian Agency for the Evaluation of University and Research) for the evaluation of research quality in years 2004-2010.

From July 2012 to June 2015, he was a member of the Academic Senate of the University of L'Aquila.

From December 2015 to June 2018, he was the Coordinator of the Evaluation Unit at the University of L'Aquila.

Since May 2018, he has been Director of the Department of Industrial and Information Engineering and Economics of the University of L'Aquila.

Since June 2018, he has been a member of the Academic Senate of the University of L'Aquila.