

## Short CV of Antonio M. CAZZANI

1986: M. Sc Civil Engineering (with Full Honors), Technical Univ. of Milan

1988-2001: Assistant Professor (tenured since 1991) of Structural Mechanics, Univ. of Trento

1991-1992: Visiting Scholar at Computational Mechanics Center, Georgia Tech, Atlanta, USA

2001-2007: Associate Professor (tenured since 2004) of Structural Mechanics, Univ. of Trento

2007-2018: Associate Professor of Structural Mechanics, Univ. of Cagliari

2017: Recipient of National Scientific Habilitation (ASN 2016) as a Full Professor in Structural Mechanics

2018: Visiting Scholar at Department of Ocean and Mechanical University, FAU, Boca Raton, USA

2018-current: Full Professor of Structural Mechanics, Univ. of Cagliari

### Research topics.

- Methods for elastic-plastic structural analysis
- Hybrid and mixed finite element models
- Multifield variational principles in solid and structural mechanics, with applications to homogeneous and layered plates and beams
- Static and dynamic analysis of straight and curved beams and taut cables
- Numerical simulation of high-speed dynamics (impact phenomena)
- Extrema of linear elastic moduli in anisotropic materials
- Soil-structure interaction for applications to vibration problems
- Mechanics of materials and structures for special applications

### Publications and bibliometric data

49 papers already published on international journals indexed on Scopus and/or Web of Science: a recent survey (July 28, 2023) provided the following values:

- Citations: 2291 (Scopus); 1595 (Web of Science)
- H-index: 25 (Scopus); 20 (Web of Science)

### Scientific responsibility of funded research projects

[PI= Principal Investigator; AI = Associated Investigator]

- 2004 National research project MIUR-PRIN: *Microstructural models and problems: applications in the field of engineering* (AI)
- 2009 Autonomous Region of Sardinia (RAS) research project according to Regional Law 7/2007, call for year 2008: *Isogeometric Methods for Curved Structures* (PI)
- 2010-2011 National research project MIUR-PRIN: *Dynamic, Stability and Control of Flexible Structures* (AI)
- 2020-2023 Fondazione di Sardegna (FdS): *Surveying, Modeling, Monitoring and Rehabilitation of Masonry Vaults and Domes*

### Scientific papers review

Reviewer for the following international journals:

Acta Applicanda Mathematicae, Acta Mechanica Sinica, Applied Mathematics and Computation, Canadian Journal of Civil Engineering, Communications in Applied and Industrial Mathematics, Computational Mechanics, Computer Modeling in Engineering & Sciences, Computers, Materials & Continua, Continuum Mechanics and Thermodynamics, Earthquake Engineering and Engineering Vibration, European Journal of Mechanics - A/Solids, International Journal of Mechanical Sciences, International Journal of Non-Linear Mechanics, International Journal of Physical Sciences, International Journal of Structural Stability and Dynamics, Journal of Applied Mathematics, Journal of Mechanics of Materials and Structures, Journal of Porous Media, Journal of Sound and Vibration, Mathematics and Mechanics of Solids, Mathematical Methods in the Applied Sciences, Meccanica, Nonlinear Dynamics, Ocean Engineering, Quarterly Journal of Mechanics and Applied Mathematics, Royal Society Proceedings A, Structural Engineering and Mechanics, Technical Sciences, Thin Solid Films.

**Research projects review**

Reviewer of research projects for *MIUR - Italian Ministry of Education University and Research* (PRIN 2008; SIR 2012)

Reviewer of research projects for the *Vigoni Programme*

Reviewer of research projects for the *Shota Rustaveli Georgia National Science Foundation*

Referee of VQR 2015-2019 for *ANVUR - Italian National Agency for the Evaluation of University and Research*

**Conference organization**

Member of the Organizing Committee of *GIMC'98*, Trento, July 13-15, 1998

Member of the Organizing Committee of *SIMAI 2010*, Cagliari, June 21-25, 2010

**Affiliations.**

Faculty Member (2007-2012; 2016-current) of the Ph.D. School in *Civil Engineering and Architecture*, Univ. of Cagliari.

Member (since 1986) of the *Italian Society of Theoretical and Applied Mechanics* (AIMETA).

Founding Member (2017) of the *Italian Society of Structural Mechanics* (SISCO).