

**Marco Domaneschi** is currently Assistant Professor at DISEG of Politecnico di Torino, where he is the main teacher of Earthquake Engineering and Structural Design courses (from 2016). Formerly, Research Associate and Contract Professor of Structural Engineering at Politecnico di Milano (2007-2016), professional structural engineer and consultant for dams, bridges and tunneling, structural and geotechnical analysis (1999-2003, 2013-2016), R&D consultant in industrial mechanical engineering – piping division (2006-2015). He has taught over 6 different courses in Structural Mechanics, Structural and Seismic Engineering at undergraduate and graduate level at Politecnico di Milano and Politecnico di Torino in 2013-2022. He had his Ph.D. from University of Pavia, and was visiting at UPC Barcelona (1999, 2011, 2014) and Princeton University (2013, 2015, 2017). He is Associate Editor of the (i) Journal of Vibration and Control - SAGE, (ii) Frontiers in Built Environment – Earthquake Eng. and Bridge Eng., (iii) European Editor of The Monitor - ISHMII. Editorial Board Member of • Bridge Engineering - ICE (2014-2022), • Structural Monitoring and Maintenance - Techno-Press, • Journal of Traffic and Transportation Engineering - ELSEVIER, • Journal of Building Pathology and Rehabilitation – SPRINGER. He is Reviewer for more than 40 international journals. He was Speaker, Sessions Chair, Editorial Board Member and Organizer in more than 20 international conferences. He is owner and inventor of patent granted for industrial invention “Negative stiffness modular device for vertical seismic isolation”. He received the Takuji Kobori Prize 2014 and other Awards for Presentations of Research Studies. He supports/ed PIs in coordinating EU ERC Projects (ongoing and past), and has/d scientific responsibility of commercial and EU funded research programs (ongoing and past). He has authored more than 70 journal and 130 international conference papers, 1 book (Data Driven Methods for Civil Structural Health Monitoring and Resilience – CRC Press) and some book chapters. He is Member of Professional and Research Societies as EACS, IABMAS, ISHMII, SPONSE. Bibliometric indices (Scopus 2023-06-07): 152 documents, 1557 total citations, h-index 24. He obtained the National Academic Qualification as Associate Professor of Structural Engineering (July 2017).



Included from 2020 in the Stanford's list of the top 2% most-cited scientists published by Elsevier, that can be found for 2022 at the following link:

<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw>

**Researcher unique identifier:** ORCID Id 0000-0002-6077-8338

**Previous positions** He graduated in 1998 at the University of Pavia in Civil Eng., attended the military service and then a specialization course in Structural Control and Health Monitoring at the UPC in Barcelona (1 year 1999) with a scholarship for the entire period abroad from the University of Pavia. Then he was professional structural engineer and consultant for dams, tunneling and special structures (3 years), consultant in mechanical and computational engineering for the piping industry (8 years). He achieved in 2006 the Ph.D. in Civil Eng. at the University of Pavia with a scholarship for the entire period.

He was Research Associate and Professor with contract in Structural Engineering courses at Politecnico di Milano (2007-2016). He has taught over 6 different courses in Structural Mechanics, Structural Engineering and Earthquake Engineering at undergraduate and graduate level at Politecnico di Milano and Torino in 2013-2022.

National Academic Qualification as Associate Prof. of Structural Eng. (2017).

**Prizes and awards** • Included in the Stanford's list of the top 2% most-cited scientists published by Elsevier. • Takuji Kobori Prize 2014 ([https://onlinelibrary.wiley.com/page/journal/15452263/homepage/kobori\\_prize.html](https://onlinelibrary.wiley.com/page/journal/15452263/homepage/kobori_prize.html)) for the best among all the papers published in Structural Control and Health Monitoring, Wiley. • Best Presentation Award at the 8th International Conf. on Struct. Health Monitoring of Intelligent Infrastructure 2017 (SHMII-8), Brisbane AU, 5-8 December, 2017. • Best Presentation Award at the 5th Australasia and South-East Asia Structural Engineering and Construction Conf., Nov 30 - Dec 3, 2020, Christchurch NZ. • Recognition of the Regional Council of Lombardy Italian Region for participation in emergency operations for the earthquake event in Abruzzo (April - May 2009).

**Visiting academic positions** Visiting researcher at the Department of Civil and Environmental Engineering, Princeton University (USA). 26/08/2013 - 13/09/2013, 24/08/2015 - 31/08/2015, 01/05/2017 - 31/05/2017

Visiting researcher at the Department of Structural and Materials Engineering and Applied Mathematics of the UPC in Barcelona (E). March 2011, June 2014

**Teaching activities and PhD supervision** Member of the Teaching Board of the Doctoral Program entitled ASTIS - ENVIRONMENT, SUSTAINABILITY, TERRITORIES, INNOVATION & SAFETY at the University of Foggia (Italy).

In recent years he has taught over 7 different courses in Structural Mechanics, Structural and Seismic Engineering at undergraduate and graduate level at Politecnico di Milano and Politecnico di Torino (2013-2023). In addition, since 2003, he

does have a number of demonstrated collaborations for teaching activities at the University of Pavia, Politecnico di Milano and Politecnico di Torino in the field of Structural and Seismic Engineering (laboratory tests, classroom exercises, tutoring, lectures, written and oral evaluation of thousands students).

Tutoring and advising a number of MSc and PhD students, and post doc cooperators involved in different research activities and contracts. Adjunct in the Ph.D. program in Civil and Environmental Engineering at the Polito with teaching assignments. Reviewer and internal full member of preliminary defense for different PhD students (e.g. UIC and Princeton).

**Other experience (e.g. patents, consultancy)** Patent No.: 102018000007222, Granted on: August 24, 2020 Owner: DOMANESCHI Marco, Resiltronics S.r.l. Inventor: DOMANESCHI Marco, CIMELLARO Gian Paolo. Modular device with negative stiffness for vertical seismic isolation. Accepted August 24, 2020.

Sector R&D COES Company S.p.A. Milan (I): 2007-2015. Research activities, for the purpose of the realization of a research project called Sustainable Mobility Project "New Generation Naval Systems" of the Ministry of Economic Development, and inventive activity, aimed at the design, industrial production and patenting of innovative connection systems for civil construction piping made of composite plastic materials.

Structural analysis and design activity for Geotecna Progetti - Milan (I): 1999-2002. It has been carried out particularly on special structures such as large arch and concrete gravity dams, underground structures, retaining structures, rock mass excavations.

**Administrative role and position responsibility** Operations manager for the College of Civil Engineering for the Dual Degree (e.g. Civil Eng. & ICT) and Diploma Supplement projects at Politecnico di Torino. Academic Advisor for Incoming Mobility for Building Engineering School at the Politecnico di Torino. Member of the laboratory committee of the Department of Structural, Geotechnical and Building Engineering, Politecnico di Torino.

**Scientific organizations/Coordination of academic activities** Coordination in cooperation with two colleagues of the annual course "Smart Infrastructures" for "ENTERPRISING" students at Politecnico di Torino. It is a multidisciplinary course for an interdisciplinary audience of students coming from different fields of Engineering and Architecture. The course consists in front lectures from the coordinators and external personalities, coming from industry and academia, national and international, invited to give lectures reporting their testimony on research activities, real-world technology implementation, protocol development and innovation in the field of infrastructures (e.g. transport).

Responsible for the Civil Engineering sector at the Department of Structural, Geotechnical and Building Engineering, Politecnico di Torino of the study for the realization of the department shaking table facility.

**Editorial activity** Top Peer Reviewer from Web of Science (<https://www.webofscience.com/wos/author/record/1277654>)

**Associate Editor:** • Journal of Vibration and Control – SAGE, • Frontiers in Built Environment - Earthquake Engineering, • Frontiers in Built Environment - Bridge Engineering

**Editorial Board Member:** • Structural Monitoring & Maintenance - Techno-Press, • Proceedings of the Institution of Civil Engineers - Bridge Engineering, • Proceedings of the Institution of Civil Engineers UK (2014-2022), • Journal of Traffic and Transportation Engineering – ELSEVIER, • Journal of Building Pathology and Rehabilitation – SPRINGER.

**Regional Editor (Europe):** The Monitor, ISHMII

**Membership of scientific societies** SPONSE, ISHMII, IABMAS, EACS

#### **Funding (current and past)**

ReCharged (Climate-aware Resilience for Sustainable Critical and Interdependent Infrastructure Systems enhanced by emerging Digital Technologies) Research UE - HE - Excellent Science – MSCA HORIZON-MSCA-2021-SE-01, European Commission

MADI (Automated and Dynamic Integrated Monitoring System) POR-FESR, Action I.1.b.1.2 of the Piedmont Region

Scientific Responsible for the Research Unit of the Politecnico di Torino in the ERIES: Engineering Research Infrastructures for European Synergies call (<https://eries.eu/> - Horizon Europe Framework Programme Grant No. 101058684) in consortium with the University of Naples Federico II, Universidade do Minho and Universite de Lorraine for the project "RESUME - REsilient and SUstainable envelope for vulnerable buildings in seisMic affected areas at the time of climatE crisis." This is a research project involving vibrating table tests at the Institute of Earthquake Engineering and Engineering Seismology - IZIS laboratory (<https://lnkd.in/gPnHA>).

Scientific Responsible for research project from competitive call P.O. ERDF SICILIA 2014/2020 - Thematic Objective 1 - Research, Technological Development and Innovation - Specific Objective 1.1 - Increasing business innovation activity - Action 1.1.5 - Supporting business technological advancement through funding - of pilot lines and early product validation and large-scale demonstration actions. "Characterization by experimental dynamic identification of buildings of interest in the project using Experimental Modal Analysis (EMA) and Operational Modal Analysis (OMA) techniques."

**Paper publishing in the past 5 years:** about 40 Journals' Papers and 60 Conferences' Papers (source Scopus).

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# Domaneschi, Marco

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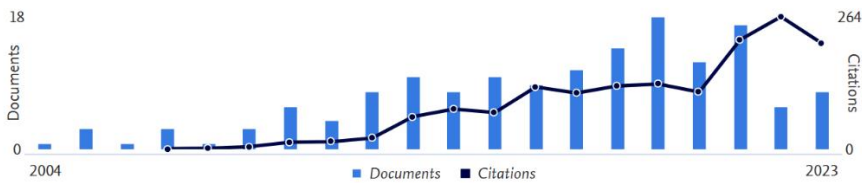
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