

CURRICULUM VITAE  
**MARCO DOMANESCHI, Ph.D.**

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**Education:** He graduated in 1998 at the University of Pavia in Civil Engineering, attended the military service and then a specialization course in Structural Control and Health Monitoring at the UPC in Barcelona Spain (1 year 1999) with a scholarship for the entire period abroad from the University of Pavia. He achieved in 2006 (with highest honors) the Ph.D. in Civil Eng. at the University of Pavia with a scholarship for the entire 3-years period. He was visiting scholar at UPC Barcelona (1999, 2011, 2014) and Princeton University (2013, 2015, 2017).

**Current and previous academic positions:** He is currently **Associate Professor** at the Department of Structural, Geotechnical and Building Engineering (DISEG) of Politecnico di Torino (Associate Professor from October 1, 2024), where he is teacher and/or course responsible of “Earthquake Engineering and Resilience of the Built Environment”, “Structural Design” and “Intelligent Infrastructure” courses (from 2016). **Board Member of the Doctoral Program ASTIS** - Environment, Sustainability, Territories, Innovation & Safety, University of Foggia (from 2023) where he is teacher of two doctoral courses: “Safety and resilience of critical infrastructures”, “Protection techniques for the built environment and communities”. **Board Member of the Doctoral Program in Civil and Environmental Engineering**, Politecnico di Torino (from 2024) where he is teacher of the doctoral course: “Safety and resilience of critical infrastructure”. **Visiting/Affiliate Professor** at the International Institute for Urban Systems Engineering (IIUSE), Southeast University, in Nanjing, China (From 2024). This appointment is for three years and can be renewed. IIUSE is a leading research center of excellence with a global reputation for pioneering and eminent research in sustainable materials, advanced sensors, structural health monitoring, and intelligent infrastructure.

Formerly, he was Research Associate and Contract Professor of Structural Engineering 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 2013-2023. He received the National Academic Qualification as Full Professor of Structural Engineering (2024).

He does have a number of demonstrated collaborations for different 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), from 1998 to 2018.

**PE and consultant employment history:** He has been employed as (i) professional structural engineer and consultant for dams, bridges and tunneling-caverns, structural and geotechnical analysis (Geotecna Progetti, Milan, Italy - 1999-2003), (ii) R&D consultant in industrial mechanical engineering (COES Company Milan, Italy - 2006-2015); Junior Engineer at Harpaceas Milan, Italy (manuals for FEM code, 2006), Milano Progetti Milan, Italy (energy assessment and fire safety in buildings and structures 1999); Student Engineer at Edilsuolo Pavia, Italy (structural, geotechnical and geophysical surveys, 1994-1998).

## Honors and awards:



- Included from 2020 in the Stanford's list of the top 2% most-cited scientists published by Elsevier: <https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw>.
- National Scientific qualification as Full Professor for the disciplinary field Structural Engineering (2024).
- Evaluator for the National Agency for the Evaluation of the University System and Research (2022).
- Wiley Top Downloaded Article Certification (1 January 2021 – 31 December 2021) M. Bartolozzi, J.R. Casas, M. Domaneschi (2022), "Bond deterioration effects on corroded RC bridge pier in seismic zone", Structural Concrete, 23(1), pp. 51–66.
- Takuji Kobori Prize 2014 for the best among all the papers published in Structural Control and Health Monitoring, Wiley. [https://onlinelibrary.wiley.com/page/journal/15452263/homepage/kobori\\_prize.html](https://onlinelibrary.wiley.com/page/journal/15452263/homepage/kobori_prize.html)
- Best Presentation Award at the 8th International Conference on Structural 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 Conference, November 30 - December 3, 2020, Christchurch NZ.
- Acknowledgment of the Lombardy Regional Council for participation in emergency operations and checks on structures - L'Aquila (April-May 2009).
- Research Assist Program Award - MSC Software Inc., Santa Ana, CA US, 3 years from October 2012.
- Federal Offshore Sailing Instructor's Certificate (Italian Sailing Federation - 2016).
- Expert Sailor Certificate (Italian Sailing Federation - 2017).
- Research Grant on seismic assessment of existing large concrete dams (1 year) - Politecnico di Milano (A.Y. 2014/15).
- Research Grant on finite element analysis of laminated paperboard (1 year) - Politecnico di Milano (A.Y. 2012/13).
- Research Grant on the seismic fragility assessment of nuclear power plants – traditional and base isolated (3 year) - Politecnico di Milano (from A.Y. 2008/09).
- First at the admission to the PhD Program in Civil Engineering at the University of Pavia, with scholarship award for the entire duration of the course (A.Y. 2002/03, A.Y. 2003/04, A.Y. 2004/05).
- Winner of the University of Pavia competition for a one-year scholarship for a Postgraduate Course Abroad at the Universitat Politècnica de Catalunya - UPC in Barcelona, Spain (A.Y. 1999/2000).

## Administrative roles and institutional responsibilities:

- Responsible of the Memorandum of Understanding between Politecnico di Torino and University of Central Florida for synergy initiatives, student exchange (undergraduate, graduate, Ph.D.), research activities and developments, student internships (3 years from 2024).
- Academic Advisor and Coordinator of the Incoming Mobility for the Building Engineering School at the Politecnico di Torino (2020 – present).
- Departmental representative (Department of Structural, Building and Geotechnical Engineering - DISEG) in the Focus Group of the Politecnico di Torino for the Human Resources Strategy for Researchers (HRS4R) of the European Community (2023 – present).
- 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 (2022).
- Member of the "Laboratory Committee" of the Department of Structural, Geotechnical and Building Engineering, Politecnico di Torino (2019-2023).

- Member of the “Research committee” of the Department of Structural, Geotechnical and Building Engineering, Politecnico di Torino (2023 – present).
- Expert Member for the BIM4CE Interreg EU Project (Bridge monitoring using real-time data and digital twins for Central Europe) <https://www.interreg-central.eu/projects/bim4ce/>

### Membership in Doctoral programs, MSc supervisor and PhD advisor:

- Board Member of the Doctoral Program ASTIS - Environment, Sustainability, Territories, Innovation & Safety <https://www.unifg.it/en/node/3007> (2023-present).
- Board Member of the Doctoral Program in Civil and Environmental Engineering, Politecnico di Torino [www.polito.it/en/education/phd-programmes-and-postgraduate-school/](http://www.polito.it/en/education/phd-programmes-and-postgraduate-school/) (2024-present).
- Affiliated member of the National Doctorate in Artificial Intelligence (2022-present).
- Supervisor/co-supervisor of MSc students of Civil and Environmental Engineering, Building Engineering and Mathematical Engineering. In particular, of about 5 students at the University of Pavia, of 30 students at the Politecnico di Milano, of 20 students at the Politecnico di Torino. Some theses were carried out in collaboration with National and Foreign Universities (e.g., UPC Barcelona, University of California Berkeley, University of Orlando), contributed to research projects and publications in journals and proceedings of international conferences (1998-present).
- Advisor/co-advisor and tutor for Ph.D. students at Politecnico di Milano and Politecnico di Torino (2015-present).
- Reviewer and member of Ph.D. final examination boards in Italy and abroad (e.g., Politecnico di Torino, University of Florence, University of Messina, Princeton University).
- Advisor to visiting PhD student Renkang Hu from Central South University-China with a scholarship awarded by the Chinese Government Scholarship CSC NO. 202306370151 (12 months, 21 Sept. 2023 - 10 Sept. 2024). Topic: long-span bridges and structural control.

### Funding (current and past)

- Scientific Responsible for the Research Unit of the Politecnico di Torino - **Project RESUME "REsilient and SUsustainable envelope for vulnerable buildings in seisMic affected areas at the time of climatE crisis"**. Within the ERIES call (Engineering Research Infrastructures for European Synergies - <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. The research project involves shaking table tests at the Institute of Earthquake Engineering and Engineering Seismology - IZIS laboratory (<https://lnkd.in/e/pnGPnHA>) on an earthquake-resistant and sustainable thermal insulation envelope for AC frames composed of panels connected to an optimized structural exoskeleton (110K€ + 180 access days to the lab facility, 2023-present).
- Scientific Responsible for research project from competitive call P.O. ERDF SICILIA 2014/2020 - Thematic Objective 1 - Research, Technological Development and Innovation. "**Characterization by experimental dynamic identification of buildings of interest in the project using Experimental Modal Analysis (EMA) and Operational Modal Analysis (OMA) techniques**" (40K€, 2023 completed).
- Scientific Responsible for research project from competitive call P.O. ERDF SICILIA 2014/2020 - Thematic Objective 1 - Research, Technological Development and Innovation. "**Characterization by experimental dynamic identification and calibration of numerical models of buildings of interest in the project using "Machine Learning" and artificial intelligence techniques**" (40K€, 2023 completed).
- Co-PI for the Partner Organization of Politecnico di Torino **ReCharged** (<https://msca-recharged.eu/people/#partnership> - **Climate-aware Resilience for Sustainable Critical and interdependent Infrastructure Systems enhanced by emerging Digital Technologies**). Funding Body:

HORIZON-MSCA-2021-SE-01 European Commission. Objective: ReCharged is a transformative project that has the vision to develop a new integrated framework toward a practical visualization platform in order to optimize and streamline climate resilience and whole-life carbon emission assessments for interdependent Transport and Energy Systems, Lifelines and Assets. (total contribution 1.559 M€, 2023-present, 4 years total).

- Scientific responsible for the Commercial Research Project "**Design and development of computational codes and multifunction SW platform for automatic modal analysis of structures and interpretation of data using machine learning algorithms**" (42K€, 2021-2022 completed).
- Scientific responsible for the Commercial Research Project "**Analysis and experimental research on the interaction between sensors embedded in composite materials, adhesives used for their application and building materials being monitored**" (31K€, 2021-2022 completed).
- Scientific responsible of the Commercial Research Project "**Implementation of system logic and integration with laboratory testing for electronic sensors for structural monitoring**" (51.5K€, 2021-2022 completed).
- Scientific Responsible for the Commercial Research Project "**Implementation of BIM models for structural analysis, seismic risk verification and vulnerability index assessment of three public heritage buildings of the Municipality of Melzo**" (40K€, 3 March 2019 – 21 March 2020).
- Formal support to coordination and project fulfillment, **IDEal reSCUE— Integrated DEsign and control of Sustainable CommUnities during Emergencies**, Grant Agreement n° ERC\_IDEALRESCUE\_637842, ERC-StG-2014 - European Research Council, (1.3 M€, 2015-2019 completed).
- Formal support to coordination and project fulfillment, **INTAS 5547 "The International Association for the Promotion of the Co-operation with Scientists from the New Independent States of the Former Soviet Union"** CORDIS-EC (238K€, 2004-2007 completed).
- Formal support to coordination and project fulfillment, **INCOMED WIND-CHIME "Wide-range Non-invasive Devices Toward Conservation of Historical Monuments in the Mediterranean Area"** CORDIS-EC (780K€, 2004-2007 completed).

#### Editorial activities (journals):

- Top Peer Reviewer from Web of Science (<https://www.webofscience.com/wos/author/record/1277654>)
- **Associate Editor of Structure and Infrastructure Engineering Maintenance, Management, Life-Cycle Design and Performance - Taylor & Francis** (2024-present).
- **Associate Editor: Journal of Vibration and Control - SAGE** (2017-present).
- **Associate Editor: Bridge Engineering – The Institution of Civil Engineers UK - Emerald Publishing** (2024-present)
- **Associate Editor: Frontiers in Built Environment** (2018-present).
- **European Editor: The Monitor - ISHMII** (2019-present)
- **Editorial Board Member: Advances in Engineering Software - ELSEVIER** (2023-present)
- **Editorial Board Member: Journal of Traffic and Transportation Engineering - ELSEVIER** (2018-present)
- **Editorial Board Member: Journal of Building Pathology and Rehabilitation – SPRINGER** (2023-present)
- **Editorial Board Member: Structural Monitoring and Maintenance - Techno-Press** (2014-present)
- **Editorial Board Member: Bridge Engineering – The Institution of Civil Engineers UK** (2014-2022)
- **Special Issue Editor** “Monitoring Approaches for Resilient Structures”. Editors: Maurizio Morgese, Marco Domaneschi, Necati Catbas. Journal of Building Pathology and Rehabilitation – SPRINGER (2023).
- **Special Issue Editor** "Study on Building Simulation" SI Editors, V. Villa, M Domaneschi. Buildings MDPI (2022).

- **Special Issue Editor** “Recent Advances in Sensing and Data Centric Methods for Structural Health Monitoring and Resilience” Editors: Mohammad N. Noori, Marco Domaneschi, Naiwei Lu. Journal: Sensors MDPI (2021).
- **Guest Editor:** “Bridge and transport network resilience”. Editors: Stergios A Mitoulis, Marco Domaneschi, Gian Paolo Cimellaro, Joan R. Casas. Proceedings of the Institution of Civil Engineers - Bridge Engineering, London UK (2021).
- **Guest Editor:** “Resilience of Bridges in Earthquake Regions”. Hosted by: Bruno Briseghella, Elias G. Dimitrakopoulos, Marco Domaneschi, Anastasios Sextos, David De Leon. Hosting Journal/Specialty: Frontiers in Built Environment - Bridge Engineering (2019).
- **Guest Editor:** “Resilience in the World: Share the Knowledge, See the Future, Help Communities”. International Journal of Sustainable Materials and Structural Systems, INDERSCIENCE. Guest Editors: Gian Paolo Cimellaro, Michel Bruneau, Aftab Mufti, Lili Xie, Marco Domaneschi (2019).
- **Guest Editor:** “A Special Issue in Honour of Professor Fabio Casciati and Professor Lucia Faravelli”. International Journal of Sustainable Materials and Structural Systems, INDERSCIENCE. Guest Editors: Sara Casciati, Gian Paolo Cimellaro, Marco Domaneschi (2019).

#### **Editorial activities (conferences):**

- **Editorial Board Member:** International Conference on Civil, Structural and Environmental Engineering Computing (from 2009)
- **Scientific Committee Member:** • The 7th International Conference on Material Strength and Applied Mechanics (MSAM 2024) July 29 – August 1, 2024 Győr, Hungary. • Academic Invited Member for Committee QL0202 “New generation seismic design theory and methodology for bridge resilience” for the World Transport Convention (<https://en.wtc-conference.com/track/QL02>), an international academic conference and exhibition platform in the field of transportation hosted mainly by the Chinese community. • 2nd International Workshop on Resilience, Nanjing-Shanghai, China October 31 - November 2, 2018. • ArCo 2020, 1st International Conference on Art Collections (1stArCo): Cultural Heritage, Safety and Digital Innovation. Florence, September 21-23, 2020. • 17th World Conference on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures (17WCSI) on behalf of the Anti-Seismic Systems International Society (ASSISi). September 11 – 16, 2022, Turin, Italy
- **Organizing Committee Member:** “EACS 2012 – 5th European Conference on Structural Control”, June 18-20, 2012, Genoa, Italy; “IABMAS 2012 – 6th International Conference on Bridge Maintenance, Safety and Management”, July 8-12, 2012, Stresa, Italy; “World Conference on Structural Control and Monitoring (6WCSCM)”, July 15-17, 2014, Barcelona, Spain; “1st International Workshop on Resilience”, September 20-22, 2016, Turin, Italy; “ANIDIS XIX & ASSISi XVII 2022 - Associazione Nazionale Italiana di Ingegneria Sismica & Associazione ASSISi - Anti-Seismic Systems International Society” September 11-15, 2022, Turin, Italy.
- **Organized Special Sessions:**
  - “Bridges and footbridges: control schemes and devices” in “6th World Conference on Structural Control and Monitoring (6WCSCM)”, July 15-17, 2014 Barcelona, Spain.
  - “Nuclear Power Plant and Related Analysis” in “The Thirteen International Conference on Civil, Structural and Environmental Engineering Computing (CC2011)”, 6-9 September 2011 – Chania, Crete, Greece.
  - “Structural Control of Bridges and Footbridges: Extreme and Every-day’s Events” in “6th International Conference on Bridge Maintenance, Safety and Management (IABMAS 2012)”, July 8-12, 2012, Stresa, Italy.
  - “Bridge control schemes and devices”, in “5th European Conference on Structural Control” - EACS 2012, Genoa, Italy – 18-20 June 2012.
  - “Dynamic Assessment, Control and Monitoring of Structures by Experimental and Numerical Methods” - SEMC 2016 - Sixth International Conference on Structural Engineering, Mechanics and Computation, 05 - 07 September 2016, Cape Town, South Africa.



- “CIM: Community Information Modelling - the new frontier of Civil Engineering”, 9th International Conference on Bridge Maintenance, Safety and Management (IABMAS 2018), 9-13 July 2018, Melbourne, Australia.
- “Advances in Base Isolation Techniques”, 7th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering - COMPDYN 2019, 24-26 June 2019, Crete, Greece.
- “Advances in SHM of bridges and critical infrastructures”, 10th International Conference on Bridge Maintenance, Safety and Management (IABMAS 2020), June 28-July 2, 2020, Sapporo, Japan.
- “Safety and diagnostic”, ArCo 2020, 1st International Conference on Art Collections (1stArCo): Cultural Heritage, Safety and Digital Innovation, 21-23 September 2020, Florence, Italy.
- “Seismic vulnerability assessment and mitigation for existing buildings”, World conference on seismic isolation, ANIDIS XIX & ASSISi XVII – 2022, Turin, 11 September 2022 – 15 September 2022.
- “SHM for Transport Infrastructure Resilience”, 9th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering – COMPDYN 2023, 12-14 June 2023, Athens, Greece.
- “Structural Optimization Modeling and Simulation”. CIVIL-COMP-OPTI 2023 The Sixth International Conference on Soft Computing, Machine Learning and Optimization in Civil, Structural and Environmental Engineering, 28-31 August 2023, Pécs, Hungary.
- Design, retrofit and monitoring of arch bridges: challenges and experiences, ARCHBRIDGE202, Fuzhou, China, 25-28 October 2023
- “Sustainable Approaches in Optimum Design of Structural Systems and Optimal Identification of Control Devices”, 3rd International Conference on Resilience, Earthquake Engineering and Structural Health Monitoring, Turin, Italy, 24-27 June 2024.
- “RES-4: Reconstruction prioritisation for optimising critical infrastructure resilience and sustainability”. 18th World Conference on Earthquake Engineering (WCEE2024) in Milan, Italy, from 30th June to 5th July 2024.
- “IDD-11: Structural control devices to mitigate seismic vulnerability”. 18th World Conference on Earthquake Engineering (WCEE2024) in Milan, Italy, from 30th June to 5th July 2024.
- “SS 05 Underground and above-ground infrastructure resilience and sustainability”, IABMAS 2024, Copenhagen, Denmark, 24-28 June 2024.
- “SS 25 Vulnerability assessment and retrofit of in-service bridges: contributions and experiences”, IABMAS 2024, Copenhagen, Denmark, 24-28 June 2024.
- **Chaired Special Sessions:**
  - Parallel Session: “Control of Structures” in “The Twelfth International Conference on Civil, Structural and Environmental Engineering Computing (CC2009)”, 1-4 September 2009 - Funchal, Madera, Portugal.
  - Special Session: “Nuclear Power Plant and Related Analysis” in “The Thirteen International Conference on Civil, Structural and Environmental Engineering Computing (CC2011)”, 6-9 September 2011 – Chania, Crete, Greece.
  - Special Session 10: “Bridge control schemes and devices”, in “5th European Conference on Structural Control” - EACS 2012, Genoa, Italy – 18-20 June 2012.
  - Parallel Session: “Control” in “5th European Conference on Structural Control” - EACS 2012, Genoa, Italy – 18-20 June 2012.
  - Special Session 26: “Structural Control of Bridges and Footbridges: Extreme and Every-days Events” in “6th International Conference on Bridge Maintenance, Safety and Management (IABMAS 2012)”.
  - Special Session: “Bridges and Footbridges: Control Schemes and Devices”, in “World Conference on Structural Control and Monitoring (6WCSCM)”, Barcelona, Spain, July 15-17, 2014.
  - Parallel Session: “Civil Structures I”, in “International Workshop on Structural Health Monitoring 2015”, Stanford, CA-USA, September 1-3, 2015.
  - Special Session: “Virtual cities for real-world crisis management and resilience assessment of communities and infrastructures II”, in “6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering - COMPDYN 2017”, 15-17 June 2017, Rhodes Island, Greece.

- Parallel Session: “Civil Structures I”, in “International Workshop on Structural Health Monitoring 2017”, Stanford, CA-USA, September 12-14, 2017.
- Parallel Session: “Smart Sensors, Reliability Forecast, Resilience of Infrastructure Systems”, in 8th International Conference on Structural Health Monitoring of Intelligent Infrastructure 2017 (SHMII-8), Queensland University of Technology, Brisbane, Australia, 5-8 December, 2017.
- Parallel Session: “Damage Identification”, in 8th International Conference on Structural Health Monitoring of Intelligent Infrastructure 2017 (SHMII-8), Queensland University of Technology, Brisbane, Australia, 5-8 December, 2017.
- Special Session SS09 - CIM: Community Information Modelling - the new frontier of Civil Engineering, 9th International Conference on Bridge Maintenance, Safety and Management (IABMAS 2018), 9-13 July 2018, Melbourne, Australia.
- Special Session “Structural Assessment, Repair, Strengthening, Retrofitting”, SEMC 2019: THE SEVENTH INTERNATIONAL CONFERENCE ON STRUCTURAL ENGINEERING, MECHANICS AND COMPUTATION, 2 - 4 September 2019, Cape Town, South Africa.
- Special Sessions “Part 1: Seismic design, Assessment and Retrofitting of Structures”, in “The Sixteenth International Conference on Civil, Structural and Environmental Engineering Computing”, 16-19 September 2019, Riva Del Garda Congress Centre, Lake Garda, Italy.
- Special Sessions “Part 2: Seismic design, Assessment and Retrofitting of Structures”, in “The Sixteenth International Conference on Civil, Structural and Environmental Engineering Computing”, 16-19 September 2019, Riva Del Garda Congress Centre, Lake Garda, Italy.
- Technical Session: “Safety and diagnostic”, in ArCo 2020, 1st International Conference on Art Collections (1stArCo): Cultural Heritage, Safety and Digital Innovation, 21-23 September 2020, Florence, Italy.
- General Session 3 (Part V) “Evaluation and Assessment”, in “11th International Conference on Bridge Maintenance, Safety and Management (IABMAS 2022)”.
- Special Session SS03\_ASSISI - Seismic vulnerability assessment and mitigation for existing buildings, World conference on seismic isolation, ANIDIS XIX & ASSISi XVII – 2022, Turin, 11 September 2022 – 15 September 2022.
- Special Session 12 – IABSE SYMPOSIUM 2023 “Long Span Bridges” - Istanbul Turkey 26-28 April 2023.
- C-MS 39: “SHM for Transport Infrastructure Resilience”, 9th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering –COMPdyn 2023, 12-14 June 2023, Athens, Greece.
- C-C-OPTI-S1: “Structural Optimization Modeling and Simulation”. CIVIL-COMP-OPTI 2023 The Sixth International Conference on Soft Computing, Machine Learning and Optimisation in Civil, Structural and Environmental Engineering, 28-31 August 2023, Pécs, Hungary.
- Parallel Session: “Arch, Shell and Spatial Structures”, ARCHBRIDGE202, Fuzhou, China, 25-28 October 2023.
- “RES-4: Reconstruction prioritisation for optimising critical infrastructure resilience and sustainability”. 18th World Conference on Earthquake Engineering (WCEE2024) in Milan, Italy, from 30th June to 5th July 2024.
- “IDD-11: Structural control devices to mitigate seismic vulnerability”. 18th World Conference on Earthquake Engineering (WCEE2024) in Milan, Italy, from 30th June to 5th July 2024.
- SS 05 Underground and above-ground infrastructure resilience and sustainability, IABMAS 2024, Copenhagen, Denmark, 24-28 June 2024.
- SS 25 Vulnerability assessment and retrofit of in-service bridges: contributions and experiences, IABMAS 2024, Copenhagen, Denmark, 24-28 June 2024.
- SS “Innovative Methods for Structural Design and Optimization”, The Fifteenth International Conference on Computational Structures Technology, 4-6 September 2024, Prague, CZ.
- **Speaker at international conferences:**
  - “Confinement of Vibration Applied to a Benchmark Problem”, 2nd European Workshop on SHM, July 7-9, 2004, Monaco (DE).

- “Active Control Schemes for Managing Nonlinear Passive Devices”, 3rd European Conference on Structural Control, 12-15 July 2004, Vienna (AT).
- “Passive Control Mitigation of the Wind Buffeting Effects on a Suspended Bridge”, 11th Int. Conf. on Civil, Structural and Environmental Engineering Computing, 18-21 September 2007, St. Julians (Malta).
- “Analysis of Plastic Pipes Subjected to Impact Ruptures”, 8th. World Congress on Computational Mechanics (WCCM8) - 5th. European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS 2008), June 30 – July 5, 2008, Venice (IT).
- “Modelling the ASCE Cable-Stayed Bridge Benchmark with Passive Devices”, 4th European Conference on Structural Control, September 8-12, 2008, San Petersburg (RU).
- “The computation of seismic fragility of equipment components in nuclear power plants”, 4th European Conference on Structural Control, September 8-12, 2008, San Petersburg (RU).
- “Damage Identification of Plastic Pipes Subjected to Impacts”, 4th European Conference on Structural Control, September 8-12, 2008, San Petersburg (RU).
- “Assessing the reliability of seismic base isolators for innovative power plant proposals”, 20th Int. Conf. on Structural Mechanics in Reactor Technology (SMIRT20), August 9-14, 2009, Espoo (FI).
- “Passive and Semi-Active Seismic Protection of the ASCE Cable-stayed Bridge”, 12th Int. Conf. on Civil, Structural and Environmental Engineering Computing, 1-4 September, 2009, Madeira (PT).
- “Mitigation of the Wind Buffeting on a Suspended Bridge by Smart Devices”, 5th European & African Conference on Wind Engineering (EACWE5), 19th-23th July 2009, Florence (IT).
- “A strategy for Modelling External User Element in ANSYS: the Bouc-Wen and the Skyhook case”, 34th IABSE Symposium 2010, September 22-24, 2010, Venice (IT).
- “When The Going Gets Tough the Tough Get Going: Skyhook Structural Control of a Suspended Bridge under Strong Wind Excitation”, 34th IABSE Symposium 2010, September 22-24, 2010, Venice (IT).
- “Seismic Mitigation of the ASCE Cable-stayed Bridge”, 34th IABSE Symposium 2010, September 22-24, 2010, Venice (IT).
- “Semi-active Systems for the Wind Effects Mitigation of a Suspension Bridge“, Structural Engineering World Congress (SEWC2011), 4-6 April 2011, Cernobbio (IT).
- “Decentralized Control of the Ansys Updated ASCE Benchmark Model”, EURODYN 2011, 4-6 July 2011, Leuven, (BE).
- “Fatigue Mitigation in a Long Span Suspension Bridge with a Steel Frame Deck”, 13th Int. Conf. on Civil, Structural and Environmental Engineering Computing, 6-9 September 2011, Crete (GR).
- “Numerical investigations of a base isolation system for NPP: safety domain definition and analytical model identification”, 13th Int. Conf. on Civil, Structural and Environmental Engineering Computing, 6-9 September 2011, Crete (GR).
- “Fatigue Mitigation in a Long Span Suspension Bridge”, Experimental Vibration Analysis for Civil Engineering Structures - EVACES 2011, October 3-5, 2011, Varenna (IT).
- “3D Numerical Characterization and Efficiency Assessment of RNC Isolator Experimental Prototypes”, 5th European Conference on Structural Control (EACS2012), 18-20 June 2012, Genoa (IT).
- “Some remarks on the mitigation of long-span bridges structural vibrations induced by wind and earthquake”, 5th European Conference on Structural Control (EACS2012), 18-20 June 2012, Genoa (IT).
- “Seismic Performance of a Wind Designed Control Strategy on a Suspension Bridge”, 6th Int. Conf. on Bridge Maintenance, Safety and Management (IABMAS 2012), July 8-12 2012, Stresa (IT).
- “Seismic Protection of the Updated Cable-Stayed Bridge Benchmark With RNC Passive Devices”, 6th Int. Conf. on Bridge Maintenance, Safety and Management (IABMAS 2012) , July 8-12 2012, Stresa (IT).
- “Vibration-based Damage Localization in a Cable-stayed Bridge”, World Conf. on Structural Control and Monitoring (6WCSCM), July 15-17, 2014, Barcelona (ES).
- “Modeling the Seismic Protection of the Updated Cable-Stayed Bridge Benchmark with Roll-N-Cage Devices”, World Conf. on Structural Control and Monitoring (6WCSCM), July 15-17, 2014, Barcelona (ES).



- “Assessing the performance of a high damping rubber bearing in beyond-design conditions”, Int. Workshop on SHM, September 1-3, 2015, Stanford (CA-US).
- “Challenges in damage identification based on finite element analyses and monitoring of neutral axis and curvature of concrete-steel composite structures”, Int. Workshop on SHM, September 1-3, 2015, Stanford (CA-US).
- “Exploring simulation tools for urban seismic analysis and resilience assessment”, 6th Int. Conf. on Computational Methods in Structural Dynamics and Earthquake Engineering COMPDYN 2017, 15-17 June 2017, Rhodes Island (GR).
- "Resilience assessment of high damping rubber bearings in beyond-design conditions", 8th Int. Conf on SHM of Intelligent Infrastructure 2017 (SHMII-8), 5-8 December, 2017, Brisbane (AU).
- "Modal identification of a flexible footbridge using output-only methods", 8th Int. Conf on SHM of Intelligent Infrastructure 2017 (SHMII-8), 5-8 December, 2017, Brisbane (AU).
- “A Methodology to Quantify Debris Generation After a Seismic Event”, 16th European Conf. on Earthquake Eng. (16thECEE), 18-21 June, 2018, Thessaloniki (GR).
- “Seismic Damage Assessment of a Virtual Large Scale City Model”, 9th Int. Conf. on Bridge Maintenance, Safety and Management (IABMAS 2018), 9-13 July 2018, Melbourne (AU).
- “Seismic resilience of bridges in transportation networks”, 9th Int. Conf. on Bridge Maintenance, Safety and Management (IABMAS 2018), 9-13 July 2018, Melbourne (AU).
- “Monitoring Footbridges Using Wireless Mesh Networks”, 9th Int. Conf. on Bridge Maintenance, Safety and Management (IABMAS 2018), 9-13 July 2018, Melbourne (AU).
- “Seismic Resilience of Electric Power Networks in Urban Areas”, 9th Int. Conf. on Bridge Maintenance, Safety and Management (IABMAS 2018), 9-13 July 2018, Melbourne (AU).
- “Some Aspects on 3D Base Isolation of Heavy and Lightweight Structures with TMD”, 7th Int. Conf. on Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2019), 24-26 June 2019, Crete (GR).
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  - “Structural Control and Health Monitoring Contributions to Service-life Extension of Bridges”, EUROSTRUCT 2023 - 2nd Conference of the European Association on Quality Control and Structures September 25-29, 2023, Vienna, Austria.
  - “Resilience Analysis of Different Retrofitting Solutions for a Prestressed Concrete Viaduct”, EXISTING BRIDGES, VIADUCTS AND TUNNELS: RESEARCH, INNOVATION AND APPLICATIONS – FABRE 2024, 12 - 15 February 2024, Genoa.
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  - “A Combinatorial Analysis for the Assessment of the Optimal Tie Rods’ Configuration in Historical Masonry Buildings”, The Fifteenth International Conference on Computational Structures Technology, 4-6 September 2024, Prague, CZ.
- **Invited speaker and keynotes:**
    - INVITED. “Resilienza per la Gestione di Emergenze e Disastri”, Primo Workshop Nazionale “L’emergenza: la Prevenzione e la Gestione, 16 ottobre 2017, Auditorium Grattacielo Intesa San Paolo, Torino (IT).
    - INVITED. "Dighe in calcestruzzo e sicurezza delle scuole alla luce delle nuove normative", Workshop: Emergenza, prevenzione e resilienza del territorio, 11 giugno, 2018, Sala Consiglio di Facoltà del Politecnico di Torino, Torino (IT).
    - INVITED. “Resilience of bridges in infrastructural networks”, WORKSHOP: Monitoraggio strutturale per migliorare la RESILIENZA delle infrastrutture, 21 Novembre 2018, Salone d’Onore, Castello del Valentino, Torino (IT).
    - INVITED. “Immediate resilience: numerical simulation and implementation issues”, 1st International Workshop on Resilience, 20-22 September 2016, Turin & JRC – Ispra (IT).
    - INVITED. “Resilience of bridges in infrastructural networks”, 2nd International Workshop on Resilience, October 31 - November 2, 2018, Nanjing-Shanghai (PRC).
    - INVITED. “Numerical simulations of fire-following-earthquake events at urban scale”, 7th Int. Conf. on Structural Engineering, Mechanics and Computation (SEMC 2019), 2 - 4 September 2019, Cape Town (ZA).
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    - INVITED. Technical Session Title: ART COLLECTIONS: VULNERABILITY ASSESSMENT AND DESIGN PROPOSALS. Prof. Stefania Viti, Prof. Marco Tanganelli, 18th World Conference on Earthquake Engineering: WCEE2024. Milan, Italy, from 30th June to 5th July 2024.
    - KEYNOTE. “Monitoring toward structural resilience: analysis, collapses and research developments”, 4th International Conference on Health Monitoring of Civil & Maritime Structures - HeaMES 2023, 12th-13th June 2023, ONLINE.
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- INVITED. “Seismic vulnerability of the Neptune statue in Florence within a multi-hazard study”, 18th World Conference on Earthquake Engineering (WCEE2024), Milan, Italy, June 30 - July 5, 2024.

**Membership of scientific societies:**

- ISHMII (International Society for Structural Health Monitoring of Intelligent Infrastructure)
- IABMAS (International Association for Bridge Maintenance and Safety)
- ITCOLD (The Italian National Committee for Large Dams)
- EACS (European Association for the Control of Structures)
- SPONSE (International Association for the Seismic Performance of Non-Structural Elements)

**Patents:**

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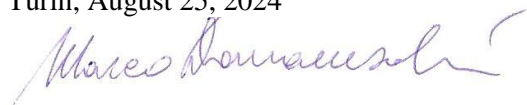
**Researcher unique identifier:** ORCID Id 0000-0002-6077-8338

**Google Scholar:** [https://scholar.google.com/citations?user=ImtBF\\_YAAAAJ&hl=it](https://scholar.google.com/citations?user=ImtBF_YAAAAJ&hl=it)

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Marco Domaneschi

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