



## PROF. DR. MARIA PINA LIMONGELLI

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E-mail mariagiuseppina.limongelli@polimi.it  
Nationality Italian  
Date of birth 25.11.1965

### WORK EXPERIENCE

1996- Date **Professor** in Structural and Seismic Engineering. Department ABC of Architecture, Built Environment and Construction Engineering. Politecnico di Milano (PoliMI), Italy  
2014 -Date **Visiting Professor**. IFSTTAR: French Institute of Science Technology for Transports, Developments and Networks. Paris. Marne La Vallée.  
1998- 1999 **Visiting Researcher**. NTUA. Athen  
1997 **Visiting Researcher**. University of California, San Diego  
1995 **Consulting Engineer for ISMES** Bergamo. Istituto Sperimentale Modelli e Strutture.  
1991 **Consulting Engineer for Studio Mezzina-Dentamaro**. Bari, Italy

### EDUCATION

1995 **PhD in Seismic Engineering**. PoliMI, Milan-Italy  
*PhD Thesis: "Vibration-based damage identification of masonry structures".*  
1991 **M.Sc Civil Engineering**. Technical University of Bari, Bari-Italy  
*Dissertation title: "Seismic behaviour of structures under lateral loads".*

### PERSONAL SKILLS AND COMPETENCES

**Research focus and interests** Maria Pina Limongelli's research is presently directed on Structural Health Monitoring (SHM) with focus on:

- Vibration-based damage identification
- Value of Information analysis of SHM
- Seismic SHM
- SHM for infrastructures in multi-hazard environment
- Monitoring-based Performance Indicators for quality check of bridges
- Resilience of cultural heritage
- SHM technical codes
- Structural identification
- Dynamic behavior of dissipating and base isolation devices

**Communication skills** Maria Pina Limongelli has an extensive experience and training as a communicator originating her activity as a Professor of Structural and Seismic Engineering for the School of Architects, for the Master on Sustainable Constructions and the PhD School

of the ABC Department of PoliMI and for also as a frequently invited speaker at conferences, academic symposia and Training Courses and Schools.

### Languages

<b>Italian</b>	Mother tongue		
Other languages	<b>Reading skill</b>	<b>Writing skills</b>	<b>Verbal skills</b>
<b>English</b>	Excellent	Excellent	Excellent
<b>French</b>	Excellent	Good	Good

### FUNDED AND COOPERATIVE PROJECTS

2014-2018	<b>Leader of Working Group 6</b> on Dissemination for COST Action TU1402. <i>Quantifying the value of structural health monitoring.</i>
2015-2019	<b>Vice-Leader of Innovation Committee</b> for COST Action TU1406. <i>Quality specification for roadway bridges, standardization at a european level.</i>
2014-2017	<b>Project leader</b> of the POLIMI unit for the ReLUIS. <i>Special project Seismic Monitoring of structures.</i>
2003-2006	<b>Participant</b> to the Prin projects (Projects of high national interest) on <i>Structural Identification under ambient vibrations, 'Vibration-based damage identification of cultural heritage and bridges'.</i>
2001-2002	<b>Participant</b> to the Prin projects on <i>'Seismic behavior of beam-column joints', 'Identification of structures under ambient vibrations'.</i>

### ACADEMIC ACTIVITIES, NETWORKS AND SERVICES

<b>Academic activity</b>	<i>Appointed activities as Professor of Structural and Seismic Design at Politecnico di Milano</i>
2005- Date	Structural Design. School of Architecture. PoliMI
1996- Date	Seismic Constructions/Earthquake Architecture. School of Architecture. PoliMI
1996- 2004	Structural Mechanics School of Architecture. PoliMI
2013_Date	Seismic behavior of masonry structures. Master School on Seismic Design of Sustainable Constructions. PoliMI

**Membership in Scientific, Committees** *Appointed or proactively engaged activities in support of the organization of international conferences, symposia and workshops*

2018	<b>Member of the Scientific Committee RILEM SMSS.</b> Sustainable materials, systems and structures. <b>Member of the Scientific Committee IABSE.</b> International Association for Bridges and Structural Engineering.
2017	<b>Member of the Scientific Committee of IWSHM.</b> International workshop of Structural Health Monitoring. <b>Member of the Scientific Committee of DAMAS.</b> Conference on Damage

Assessment of Structures.

**Membership in Technical and Professional Committees** *Appointed or proactively engaged activities in support of supranational and national organizations aiming to provide professional education as well as pre-normative best practices.*

- 2018 **Technical secretary** of the **FIB/Action Group 9**. Testing and Structural Health Monitoring.
- 2017 **Member of IABSE Commission 1**. Structural Performance, Safety and Analysis
- 2003-2005 **Member** of the CTE Special Commission for the Seismic Technical Code.
- 1995- Date **Member of the Continuing Learning and Training Commission**. Fondazione Ordine Ingegneri Milano (Milan Association of Engineers).

**University and faculty services** *Faculty services provided to support the further development and operation of the university*

- 2017 - Date **Coordinator and Delegate for Politecnico di Milano** for the Memorandum of Understanding on Research and Academic activities with IFSTTAR, France.
- 2013- Date **Coordinator of the Research Line** 'Risk assessment and emergency management' for the ABC Department of Politecnico di Milano
- 2013- 2016 **Member of the Scientific Committee** of the Department of Architecture, Built Environment and Construction Engineering, Politecnico di Milano, Italy.
- 2010- 2012 **Coordinator of the Dissemination activities** for the Department of Structural Engineering, Politecnico di Milano, Italy.
- 2000-2002 **Member of the Permanent Commission** of the Faculty of Building Constructions
- 2001-2005 **Representative** of Assistant Professors in the Department board
- 1993-1995 **Representative** of PhD students in the Department board

**Participation to evaluation panels** *Leadership or membership to evaluation committees responsible for the recruitment or promotion of academic and technical staff*

- 2012 **Reviewer** for Italian National Research Projects 'Futuro in Ricerca'..  
**Leader** of the assessment committee for the award of the PhD title -XXIV cycle - at the Department of Structural Engineering of Politecnico di Milano.
- 2002 **Component of the commission** for the selection of an Assistant Professor of Structural Design at Politecnico di Bari.
- 2001 **Component of the commission** for the selection of an Assistant Professor of Structural Design at Politecnico di Bari.
- 2001 **Component of the commission** for the selection of a technical assistant for the Department of Structural Engineering of Politecnico di Milano.

**Organization of workshops, Training Schools and Special Sessions at Conferences** *Proactively engaged activities in the organization of conferences, workshops, symposiums, Training schools, professional continuing education courses*

- 2018 **Organiser of the Special Session** on *SHM and decision making for infrastructures in multi-hazard environment*. at IALCCE. International Association of Life-Cycle Civil Engineering.  
**Organiser of the Special Session** on *Value of Information of SHM for life-cycle management of Civil Structures*. at IALCCE. International Association of Life-Cycle Civil Engineering.  
**Organiser of the Special Session** on *Bridge health management: from information to*

- decision*. Session at IABSE. International Association Bridges and Structural Engineering.
- Organiser of the Special Session** on *Innovations towards improved seismic resilience and upgrade of existing structures*. at IABSE. International Association Bridges and Structural Engineering.
- Organiser of the Special Session** on *Vibration-based SHM of bridges: research and applications*. at IABMAS. International Association of Bridge Maintenance, Safety and Management.
- Organiser of the Special Session** on *Seismic SHM: theoretical studies and successful applications*. at EWSHM. European Workshop on Structural Health Monitoring.
- Organiser of the Special Session** on *Open source software for seismic risk analyses: developments and applications* at 16ECEE. European Conference on Earthquake Engineering
- 2017 **Local organiser of the Training School** on the *Value of Structural Health Monitoring*. November 6-9, 2017. Cadenabbia, Italy. Local organizer.
- Local organiser 10<sup>th</sup> Workshop of COST Action TU1402** on the *Value of Structural Health Monitoring*. Cadenabbia, Italy November 9-10, 2017.
- Organiser of the Special Session** on *Seismic SHM for civil structures* at IWSHM. International Workshop on Structural Health Monitoring
- Organiser of the Special Session** on *Assessment of the Value of SHM Information* at IWSHM. International Workshop on Structural Health Monitoring
- Local organiser 6<sup>th</sup> Workshop of COST Action TU1406** on the *Quality specification for roadway bridges, standardization at a european level.*. Paris, France. May 12, 2017.
- 2014 **Coordinator of the international workshop:** *Build resilience through smartness. Monitoring as a tool to increase resilience*. Politecnico di Milano. 12 Giugno 2014.
- 2013 **Coordinator of the national workshop:** *I beni culturali di Mantova e il terremoto*. Politecnico di Milano sede di Mantova 29 Maggio 2013.
- Coordinator of the national workshop:** *Tra prevenzione e cura: La protezione del patrimonio edilizio dal rischio sismico*. Politecnico di Milano sede di Mantova 20 Maggio 2013.
- 2012 **Coordinator of the seminar:** *‘Il terremoto in Emilia. Primi dati e considerazioni*. 17 luglio 2012.
- 2002-2006 **Coordinator of short courses** of Professional Continuing Education for the Milan Association of engineers (FOIM)

**Review Boards** *Appointed roles as reviewer of scientific publications in international journals*

**SHM.** Structural Health Monitoring

**EESD.** Earthquake Engineering and Structural Dynamics

Earthquake Spectra

**IJSE:** International Journal Seismic Engineering

**MSSP.** Mechanical Systems and Signal Processing

Engineering Structures

**JVC.** Journal of Vibration and Control

**EJECE.** European Journal of Environmental and Civil Engineering

Frontiers

**IJCSM.** International Journal of Concrete Structures and Materials

**IJEST.** International Journal of Engineering, Science and Technology

**IJSSD.** International Journal of Structural Stability and Dynamics

Intelligent Buildings International

Probabilistic Engineering Mechanic

**SEM.** Structural engineering and mechanics

## PUBLICATIONS

### Journal Papers *Dissemination of the research activity through peer-reviewed journals*

- 2018 Prendergast L. ; Gavin K.; Zanini M. ; Faleschini F.; Ademovic N.; **Limongelli M.P.** (2017) Structural Health Monitoring for Performance Assessment of Bridges under Flooding and Seismic Actions. Submitted to SEI.
- Iacovino C., Ditommaso R. , **Limongelli M.P.**, Ponzo F.C. (2016). The Interpolation Evolution Method for damage localization in structures under seismic excitation. *Submitted to Earthquake Engineering and Structural Dynamics*.
- Limongelli M.P.** (2016). "Damage localization in plates using the two dimensional interpolation method". Submitted to *MSSP*
- 2017 Quaglini V, Gandelli E, Dubini P, **Limongelli MP.** (2017) "Total displacement of curved surface sliders under nonseismic and seismic actions: A parametric study". *Struct Control Health Monit.* <https://doi.org/10.1002/stc.2031>
- 2016 **Limongelli M.P.**, Siegert D., Merliot E., Waeytens J., Bourquin F., Vidal R., Le Corvec V., Gueguen I., Cottineau L.M., (2016) "Damage detection in a post tensioned concrete beam - Experimental investigation", *Engineering Structures*. Vol. 128, p. 15-25. [dx.doi.org/10.1016/j.engstruct.2016.09.017](https://doi.org/10.1016/j.engstruct.2016.09.017)
- Domaneschi M., **Limongelli M.P.**, Martinelli L., (2016) "Wind-driven damage localization on a suspension bridge", *The Baltic Journal of Road and Bridge Engineering*, 11(1),pp. 11-21. doi:10.3846/bjrbe.2016.02.
- 2015 Domaneschi M., **Limongelli M.P.**, Martinelli L., (2015) "Damage detection and localization on a benchmark cable-stayed bridge", *Earthquake and Structures*, vol. 8(5), p.1113-1126.
- Busca G., **Limongelli M.P.** (2015). An experimental evaluation of the reliability of a damage localization algorithm based on FRF interpolation. *Journal of Civil Structural Health Monitoring*, vol. 5, p. 427-439, ISSN: 2190-5452, doi: 10.1007/s13349-015-0126-7
- 2014 **Limongelli M.P.**, Martinelli L., Zambrano A. (2014) "Damage localization in a high-rise building using seismic excitation", *International Journal of Earthquake Engineering- Special Issue on Seismic SHM*, **31(3)**, pp. 17-27.
- Dilena M., **Limongelli M.P.** Morassi A. (2014). "Damage localization in bridges via FRF interpolation method". *Mechanical Systems and Signal Processing*, 52-53, pp 162-180.
- Limongelli M.P.** (2014). "Seismic health monitoring of an instrumented multistorey building using the Interpolation Method". *Earthquake Engng. Struct. Dyn.* 43, pp 1581-1602. doi: 10.1002/eqe.2411
- 2013 Domaneschi M., **Limongelli M.P.**, Martinelli L. (2013). "Multi-Site Damage Localization in a Suspension Bridge via Aftershock Monitoring", *International Journal of Earthquake Engineering*, **3**, pp. 56-72.
- Domaneschi M., **Limongelli M.P.**, Martinelli L., (2013) "Vibration Based Damage Localization Using MEMS on a Suspension Bridge Model", *Smart Structures and Systems*, **12(6)**, pp 679-694.

- 2011 **Limongelli, M.P.**, (2011). "The interpolation damage detection method for frames under seismic excitation". *Journal of Sound and Vibration*. 330, 5474–5489.
- 2010 **Limongelli M.P.**, (2010), "Frequency Response Function Interpolation for Damage Detection under Changing Environment" *Mechanical Systems and Signal Processing*, 24, Issue 8, pp 2898-2913.
- 2009 **Limongelli M.P.** (2009). "Un indice per la valutazione rapida del danno prodotto da un sisma". *Ingegneria Sismica* **1**, pp. 65-80.
- 2005 **Limongelli M.P.**, (2005). "Performance evaluation of instrumented buildings" *ISET Journal of Earthquake Technology*, 42, pp. 47-62.
- 2003 **Limongelli M.P.**, (2003), "A new procedure to estimate seismic response parameters from a limited number of records" *European Earthquake Engineering*, 2, pp.45-55.
- Limongelli M.P.**, (2003), "Optimal location of sensors for reconstruction of seismic responses through spline function interpolation". *Earthquake Engineering and Structural Dynamics*, 32, pp. 1055-1074.
- 2002 Benzoni G., **Limongelli M.P.**, Priestley M.N.J., (2002). "Assessment of shear forces on bridge abutments. A simplified method". *ASCE. Journal of bridge engineering*. 8, pp. 29-38.
- 2001 **Limongelli M.P.**, Benzoni G., Dusi A. (2001). "Full scale dynamic tests on dissipating antiseismic devices". *Studies and researches*. 22, pp. 189-201.
- Benedetti D., Carydis P., **Limongelli M.P.** (2001) "Evaluation of the seismic response of masonry buildings based on energy functions". *Earthquake Engineering and Structural Dynamics*, 30, pp. 1061-1081.
- Limongelli M.P.** (2001). "Prove su tavola vibrante di telai in cemento armato riparati con calcestruzzo fibrorinforzato". *Ingegneria Sismica* **2**, pp. 65-80.
- 2000 Benedetti D., Carydis P., **Limongelli M.P.** (2000). "Influenza della componente verticale sul danno". *Ingegneria Sismica*, **2**, pp. 5-19.
- 1996 Benedetti D., **Limongelli M.P.** (1996) "A model to estimate the virgin and ultimate effective stiffnesses from the response of a damaged structure to a single earthquake". *Earthquake Engineering and Structural Dynamics*, 25, pp. 1095-1108.
- Benedetti D., **Limongelli M.P.** (1996). "Una procedura per l'identificazione dello stato di danno di costruzioni soggette a sisma". *Ingegneria sismica*, **2**, pp. 22-31.
- 1994 **Limongelli M.P.**, Pezzoli P. (1994). "Analysis of the seismic response of masonry buildings excited by a shaking table". (1994). *European Earthquake Engineering*, 2, pp. 18-30.
- 1992 Bosco D., **Limongelli M.P.** (1992). "Sui meccanismi di collasso di pareti murarie sottoposte a spinta orizzontale". *Ingegneria sismica*, **1**, pp. 44-54.

**Conference Papers** *Dissemination or the research activity through peer-reviewed papers presented at international and national conferences*

- 2018 **Limongelli M.P.**, Orcesi A. (2018) The Parameter Readiness Level for the classification of innovative performance indicators for road bridges. **Submitted** to IALCCE. Ghent
- Limongelli M.P.** (2018) The Interpolation Method: detection, localization and quantification of stiffness losses. **Submitted** to IALCCE. Ghent
- Miraglia S., **Limongelli M.P.** (2018). **The Value of monitoring for emergency management of bridges under seismic hazard.** **Submitted** to IALCCE. Ghent

- Limongelli M.P.**, Orcesi A., Vidovic A. (2018). Bridge Performance Indicators at the research level: a proposal for classification. **Submitted** to IABSE. Nantes
- Miraglia S., Giordano P.F., **Limongelli M.P.**, (2018). The benefit of permanent monitoring for seismic emergency management. **Submitted** to IABSE. Nantes
- Limongelli M.P.**, Fathi A. (2018). The Interpolation Method: influence of feature uncertainties. **Submitted to** 9th International Conference on Bridge Maintenance, Safety and Management. Melbourne 9-13 July 2018.
- Anzlin A., Prendergast L., Gavin K., **Limongelli M.P.** (2018) The effect of local scour of a single pier on the vibration parameters of a multi-span bridge under seismic excitation (2018). **Submitted to** 9th International Conference on Bridge Maintenance, Safety and Management. Melbourne 9-13 July 2018.
- Bosco G., **Limongelli M.P.**, Corus M., Bourquin F. (2018). Vibration-based damage identification in a scaled asymmetric building. **Submitted to** 16th European Conference on on Earthquake Engineering. Thessaloniki June 2018.
- Makhoul N., Jaoude R.A., **Limongelli M.P.**, (2018) Structural health monitoring of buried pipelines under seismic hazard: damage scenarios and sensing techniques. **Submitted to** 16th European Conference on on Earthquake Engineering. Thessaloniki June 2018.
- Prendergast L.; Gavin K.; Zanini M.; Faleschini F.; Ademovic N. ;**Limongelli M.P.** (2018) Monitoring-based performance parameters for assessment of bridges under scour and seismic hazards. **Submitted to** 16th European Conference on Earthquake Engineering.
- 2017 **Limongelli M.P.**, Omenzetter P., Yazgan U., Soyoz S. (2017). Quantifying the value of monitoring for post-earthquake emergency management of bridges *Procs 39th IABSE Symposium – Engineering the Future* September 21-23 2017, Vancouver, Canada
- Limongelli M.P.**, Orcesi A. (2017). A proposal for classification of key performance indicators for roadbridges. *Procs 39th IABSE Symposium – Engineering the Future* September 21-23 2017, Vancouver, Canada.
- Thöns S. **Limongelli M.P.**, Mandic Ivankovic A., Val D., Chryssanthopoulos M., Lombaert G., Döhler M., Straub D., Chatzi E., Köhler J., Wenzel H., Sørensen J. (2017). Progress of the COST Action TU1402 on the Quantification of the Value of Structural Health Monitoring. *Proc of the IWSHM 2017. The 11th International Workshop on Structural Health Monitoring*. September 12-14, 2017, Stanford, California, USA.
- Iacovino C., Ditommaso R., Auletta G., Ponzio F.C., **Limongelli M.P.** (2017). Interpolation evolution method: analysis of the influence of higher modes retrieved from nonlinear numerical analyses performed on two different models of reinforced concrete framed structures. *Compdyn 2017 and 6th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, M. Papadrakakis, M. Fragiadakis (eds.), Rhodes Island, Greece, 15–17 June.
- Limongelli M.P.** (2017). The 2d-modal interpolation method for damage localization in plates. 12th International Conference on Damage Assessment of Structures. IOP Conf. Series: *Journal of Physics: Conf. Series* 842. 012004 doi :10.1088/1742-6596/842/1/012004
- M. A. Zanini, F. Faleschini, N. Ademovic, L. J Prendergast, K. Gavin, **Limongelli M. P.** (2017). Structural Health Monitoring and Design Code compliance for performance assessment of bridges under scour and seismic hazards, *Procs of the JOINT COST TU1402 - COST TU1406 - IABSE WC1 WORKSHOP: The Value of Structural Health Monitoring for the Reliable Bridge*

*Management*. DOI: <https://doi.org/10.5592/CO/BSHM2017.3.3>

Omenzetter P., **Limongelli M.P.**, Yazgan U., Soyoz S. (2017). Quantifying the value of SHM for emergency management of bridges at-risk from seismic damage based on their performance indicators. *Procs of the JOINT COST TU1402 - COST TU1406 - IABSE WC1 WORKSHOP: The Value of Structural Health Monitoring for the Reliable Bridge Management*. DOI: <https://doi.org/10.5592/CO/BSHM2017.4.5>

**Limongelli M.P.**, D. Siegert D., Merliot E., Waeytens J., Bourquin F., Vidal R., Le Corvec V., Gueguen I., Cottineau L. M. (2017). Experimental investigation and damage assessment in a post tensioned concrete beam. *European Geosciences Union General Assembly*, Vol. 18, EGU2017-19225, 2017. Vienna, 17 - 22 April 2016.

Iacovino C., Ditommaso R., **Limongelli M. P.**, Ponzo F. C. (2017). Experimental damage localization in a full-scale 7 story benchmark building under seismic excitation *Proc. SPIE. 10169, Nondestructive Characterization and Monitoring of Advanced Materials, Aerospace, and Civil Infrastructure 2017*, 101691B. (April 19, 2017) doi: 10.1117/12.225791

**Limongelli M.P.**; Tirone M.; Surace C. (2017) Non-destructive monitoring of a prestressed bridge with a data-driven method *Proc. SPIE. 10170, Health Monitoring of Structural and Biological Systems 2017*, 1017033. (April 05, 2017) doi: 10.1117/12.2258381

2016 Iacovino C., Ditommaso R. , **Limongelli M.P.**, Ponzo F.C. (2016). Un approccio integrato per la localizzazione del danno su strutture sottoposte a terremoti di media e forte intensità. 35° Convegno Nazionale GNGTS. Lecce, 22-24 novembre 2016.

Auletta G., Ditommaso R., Iacovino C., Ponzo F.C., **Limongelli M.P.** (2016). Damage evaluation on a multi-story framed structures: comparison of results retrieved from algorithms based on modal and non-modal parameters. *European Geosciences Union General Assembly*, Vol. 18, EGU2016-18196, 2016. Vienna, 17 - 22 April 2016.

**Limongelli M.P.**, Domaneschi M., Martinelli L., (2016). Vibration-based damage severity estimation basing on a non-model damage feature. *IALCCE 2016*. Delft, The Netherlands

Iacovino C., Ditommaso R., **Limongelli M.P.**, Ponzo F.C. (2016). Comparison of the performance of two different approaches for damage detection on framed structures. *8th European Workshop On Structural Health Monitoring (EWSHM 2016)*, 5-8 July 2016, Spain, Bilbao.

**Limongelli M.P.**, Chatzi E., Dohler M., Lombaert G., Reynders E. (2016). Towards extraction of vibration-based damage indicators. *8th European Workshop On Structural Health Monitoring (EWSHM 2016)*, 5-8 July 2016, Spain, Bilbao.

Omenzetter P., **Limongelli M.P.**, Yazgan U., (2016). Quantifying the value of seismic monitoring for the building owner. *8th European Workshop On Structural Health Monitoring (EWSHM 2016)*, 5-8 July 2016, Spain, Bilbao.

**Limongelli M.P.** (2016). Structural damage localization using the modal interpolation method. *8th European Workshop On Structural Health Monitoring (EWSHM 2016)*, 5-8 July 2016, Spain, Bilbao.

2015 **Limongelli M.P.**, Siegert D., Merliot E., Vidal R. , Waeytens J., Bourquin F., Le Corvec V., Gueguen I., Cottineau L. M. (2015). Experimental damage identification in a post tensioned concrete beam. *IABMAS 2016. Foz du Iguacu, Brazil*.

Martinelli L., Domaneschi M., **Limongelli M.P.** (2016). Vibration-based damage assessment basing on a data driven damage feature. *IABMAS 2016. Foz du Iguacu, Brazil*.



- Limongelli M.P.**, M. Domaneschi, L. Martinelli, M. Dilena, A. Morassi (2015). A monitoring-based indicator of local stiffness reduction. *eBook of the 1st Workshop Meeting COST Action TU1406*, Geneva, September 21st-22nd 2015. ETH-Zürich.
- Limongelli M.P.**, Martinelli L., Zambrano A., (2015). "Wind driven damage localization in a high-rise building ". *IWSHM 2015. 10<sup>th</sup> International Workshop on Structural Health Monitoring* September 1-3, 2015. Stanford University, CA. USA.
- Limongelli M.P.**, Siegert D., Merliot E., Vidal R., Waeytens J., Bourquin F., Le Corvec V., Gueguen I., Cottineau L. M. (2015). "Static and dynamic testing of a damaged post tensioned concrete beam". *EVACES 2015 - 6<sup>th</sup> International Conference on Experimental Vibration Analysis for Civil Engineering Structures* – Empa, Dübendorf, Switzerland. 19-21 Ottobre 2015..
- Limongelli M.P.**, Morassi A., (2015). Experimental verification of the Interpolation Method on a real damaged bridge ". *DAMAS 2015 - 11th International conference on damage assessment of structures*. Ghent University, Belgium. 24-26 August 2015. *Key Engineering Materials*.
- Limongelli M.P.**, Martinelli L., Zambrano A., (2015). "Wind Driven Damage Localization in a High-rise Building ". In *Structural Health Monitoring 2015: System Reliability for Verification and Implementation - Proceedings of the 10th International Workshop on Structural Health Monitoring, IWSHM 2015*, vol. 2 - ISBN:978-160595111-9.
- Limongelli M.P.**, Carvelli V., (2015). Damage localization in a glass fiber reinforced composite plate via the surface interpolation method". *DAMAS 2015.- 11th International conference on damage assessment of structures*. Ghent University, Belgium. 24-26 August 2015. *Key Engineering Materials*.
- Limongelli M.P.**, Martinelli L., Zambrano A., (2015). Damage localization in a multistorey building under seismic excitation "SHMII 2015 - 7th International conference on Structural Health Monitoring of Intelligent Infrastructure. Torino, Italy. 1-3 July 2015.
- Waeytens J., **Limongelli M.P.**, Merliot E., Siegert D., Chapeleau X., Vidal R., Le Corvec V., Cottineau L.M., (2015). "Détection d'endommagement dans une poutre en béton précontraint par recalage de modèles et mesures par fibres optiques". *33èmes Rencontres de l'AUGC, ISABTP/UPPA, Anglet, 27 au 29 mai 2015*
- M.P. Limongelli**, M. Domaneschi, L. Martinelli, M. Dilena, A. Morassi, A. Zambrano, A. Gecchelin . (2015). "The interpolation method for the detection of localized stiffness losses". *Proceedings of the 1st Workshop of COST Action TU1402*. ISBN: 978-8-77-877426-2 DTU Civil Engineering Report: R-336.
- 2014 Gandelli E., **Limongelli M.P.**, Quaglino V., Dubini P., Vazzana G., Farina G. (2014). "Recentring capability of friction pendulum system: parametric investigation". *Proceedings of 2nd European Conference on Earthquake Engineering and Seismology*, Istanbul 24-29 August 2014.
- Domaneschi M., **Limongelli M.P.**, Martinelli L. (2014). "Vibration-based Damage Localization in a Cable-stayed Bridge". *6WCSCM. The Sixth World Conference on Structural Control and Monitoring*. Barcellona, Spain 15-17 July 2014.
- Domaneschi M., **Limongelli M.P.**, Martinelli L. (2014). Damage identification in a benchmark cable-stayed bridge using the Interpolation Method. *7EWSHM. The Seventh European Workshop on Structural Health Monitoring*. Nantes, France July 7-11, 2014
- 2013 **Limongelli M.P.** (2013). "Monitoraggio strutturale per la protezione sismica del patrimonio edilizio" *Atti della giornata di studio "Tra prevenzione e cura: la protezione*

- del patrimonio edilizio dal rischio sismico*". Mantova, 20 Maggio 2013. ISBN 9788890871900.
- Domaneschi M., **Limongelli M.P.**, Martinelli L. (2013). "Damage Localization on a Suspension Bridge basing on wind induced vibrations". CC2013. *The Fourteenth International Conference on Civil, Structural and Environmental Engineering Computing*. Cagliari, Sardinia 3-6 September 2013.
- Domaneschi M., **Limongelli M.P.**, Martinelli L. (2013). "Interpolation Damage Detection Method on a Suspension Bridge Model: Influence of Sensors Disturbances". 10th International conference on damage assessment of structures. DAMAS 2013. Dublin Ireland. July 8-10 2013. *Key Engineering Materials*. Vol. 569-570, 734-741
- Limongelli M.P.** (2013). "Two dimensional damage localization using the interpolation method". DAMAS 2013. 10th International conference on damage assessment of structures. DAMAS 2013. Dublin Ireland. July 8-10 2013. *Key Engineering Materials*. Vol. 569-570, 860-867
- 2012 **Limongelli M.P.** "The Interpolation Method for damage localization in an instrumented steel frame structure". *15<sup>th</sup> World Conference on Earthquake Engineering*, Lisbona, 24-28 September, 2012.
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