

CURRICULUM VITAE ET STUDIORUM

PROF. FILIPPO UBERTINI

(updated in February 2015)

PROFESSIONAL INFORMATION

Date of birth: June 22nd, 1982 Place of birth: Perugia (Italy)

Academic Position: Associate Professor of Structural Design

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WEB

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Scopus profile: <http://www.scopus.com/authid/detail.url?authorId=55891659200>

Google Scholar profile: <http://scholar.google.it/citations?user=G9GTpfAAAAAJ&hl=it>

Researchgate profile: https://www.researchgate.net/profile/Filippo_Ubertini

ACADEMIC CAREER

March 2015 - today	Associate professor of Structural Design at the Department of Civil and Environmental Engineering of University of Perugia.
December 2008 - March 2015	Assistant Professor of Structural Design at the Department of Civil and Environmental Engineering of University of Perugia.
December 2013	Qualified for Italian Associate Professorship of "Structural Design".
December 2011	Tenured as Assistant Professor of Structural Design.
October 2008	First classified in the competitive evaluation exam for the admission to the PhD course in Civil Engineering at University of Pavia, Italy.

EDUCATION

Academic Titles

February 2009	Ph.D. in Civil Engineering, University of Pavia.
October 2005	M.Sc. in Civil Engineering, cum laude, University of Perugia, Italy.
October 2003	B.S. in Civil Engineering, cum laude, University of Perugia, Italy.

Other Professional Titles

2006 - today	Registered as Professional Engineer in the Association of Engineers of the Province of Perugia.
2006 - today	Registered as Technical Consultant for the Tribunal of Perugia, Italy.
March 2006	Qualified as Professional Engineer, in the sector of Civil and Environmental Engineering, with 240/240 final marks.

Other Educational Experiences

May 2014	Visiting scholar at the "Department of Civil, Construction, and Environmental Engineering", Iowa State University, Ames, USA.
September 2010	Visiting scholar at the "Department of Civil Engineering and Engineering Mechanics", Columbia University, New York, USA.
May 2010	Visiting scholar at the "Department of Civil Engineering and Engineering Mechanics", Columbia University, New York, USA.
June 2009	Visiting scholar at the "Department of Civil Engineering and Engineering Mechanics", Columbia University, New York, USA.
2005 - 2008	Ph.D. fellow at University of Pavia, Italy.
May 2008 - June 2008	Visiting scholar at the "Department of Civil Engineering and Engineering Mechanics", Columbia University, New York, USA.
February 2008	Attendance, with Marie Curie fellowship, of the International Course "TC2: Nonlinear Dynamics and Control of Structural and Mechanical Systems", organized by SICON consortium at University of Vien.
October 2007	Attendance, with Marie Curie fellowship, of the International Course "Semi-active vibration suppression: the best from active and passive technologies", organized at the CISM Center in Udine, Italy.
July 2007	Attendance, with Marie Curie fellowship, of the International Course "TC1: Stability and Bifurcations of Nonlinear Dynamical Systems", organized by SICON consortium at University of L'Aquila, Italy.
June 2007	Attendance of the course "Arch Bridges", organized at the Department of Structural Engineering of Politecnico di Milano, Italy.
September 2006	Attendance of the International Course "Stability, Bifurcation and Control of Piecewise Linear Systems", organized by the Italian Society of Chaos and Complexity in Naples, Italy.

July 2006 - September 2006	Attendance of the Summer Courses of the International School of Mathematics (SMI) in Perugia (Numerical Analysis; Differential Equations in Mathematical Physics), with fellowship and full final marks (30/30).
July 2002 - August 2002	Internship at the "Urban Utility Center", Polytechnic University, New York, USA.
July 1999 - August 1999	Diploma in "English as a Second Language" at "Cushing Academy High School", Ashburnham, Massachusetts, USA.

INSTITUTIONAL RESPONSIBILITIES

May 2014 - today	Delegate for Scientific Research of the Department of Civil and Environmental Engineering, University of Perugia, Italy.
February 2014 -today	Member of the Erasmus Committee, Department of Civil and Environmental Engineering, University of Perugia, Italy.
March 2014 - today	Coordinator of the Erasmus+ Agreement between University of Perugia and Universidade do Porto, Porto, Portugal, for the "Building and Civil Engineering" area.
2013 - today	Reference teacher of the Master Program in Civil Engineering of University of Perugia.
February 2014 - today	Member of the commission for the website of the Department of Civil and Environmental Engineering of University of Perugia.
2014	Member of the Commission for the management of inter departmental spaces of the two Departments of Engineering of University of Perugia.

SCIENTIFIC ACTIVITY

Research interests

Dr. Ubertini's Research focuses in the fields of structural health monitoring, smart multifunctional cement-based composites, wind engineering and structural control. Within these fields, the following topics are specially worth mentioning;

- a) Continuous structural health monitoring and vibration-based damage identification, with focus on critical infrastructure systems and historic structures;
- b) Development and testing of strain sensing piezoresistive cement-based composites doped with conductive nanoparticles for applications in SHM
- c) Modeling of aerodynamic and aeroelastic response of flexible structures under wind action;
- d) Seismic structural protection through control solutions.

Bibliographic information (from Google Scholar database)

total number of citations	284
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Scientific awards

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| 2011 | Fourth International Conference on Experimental Vibration Analysis for Civil Engineering Structures (EVACES): "Best Paper Award", Forum for the young engineers. |
| 2010 | Italian Association for Wind Engineering: "Award for a scientific paper by a young researcher on the themes of wind engineering". |
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Invited seminars

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| 2014 | Invited Seminar (paid) at Iowa State University, Ames, USA, entitled "Nanocomposite Cement-based Sensors for SHM". |
| 2009 | Invited Seminar at the Polytechnic Institute of New York University entitled "Continuous Monitoring, structural identification and control of suspension bridges". |
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Dissemination

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| September 2014 | Speaker at the European Researchers Night "Sharper Night", Perugia, Italy. |
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News published in international media

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| Aprile 2014 | "International team develops real-time structural sensors", article published by "Civil Engineering Magazine" of the American Society of Civil Engineers (ASCE). The article is available at the following link:

http://www.asce.org/magazine/20140401-international-team-develops-real-time-structural-sensors/ |
| March 2014 | "Engineers work together with University of Perugia Professors", article published by "Iowa State Daily", newspaper of the Iowa State University, signed by Kelly Shiro. The article is available at the following link:

http://www.ing1.unipg.it/files/generale/ISU-Perugia_Iowa_State_Daily_article_-_March_27_2014.pdf |
| March 2014 | "Iowa State, Italy researchers collaborate on structural health monitoring", article published in the website of the College of Engineering of the Iowa State University. The article is available at the following link:

http://news.engineering.iastate.edu/2014/03/06/iowa-state-italy-researchers-collaborate-on-structural-health-monitoring/ |
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Honors

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| 2008 | International course at Technical University of Wien "TC2: Stability and Bifurcations of Nonlinear Dynamical Systems", awarded of a Marie Curie Fellowship. |
| 2007 | International course at CISM in Udine "Semi-active vibration suppression: the best from active and passive technologies", awarded of a Marie Curie Fellowship, 2007. |
| 2006 | International course at University of L'Aquila "TC1: Stability and Bifurcations of Nonlinear Dynamical Systems", awarded of a Marie Curie Fellowship. |
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Editorial and revising activity

Member of the Editorial Board of:

- Mathematical Problems in Engineering (<http://www.hindawi.com/journals/mpe/>)
- Journal of Smart Cities (<http://ojs.whoice.com/index.php/JSC/index>)
- International Journal of Civil and Structural Engineering, Integrated Publishing Association (<http://www.ipublishing.co.in/jcsindex.html>).
- Journal of Vibration Analysis, Measurement and Control, Columbia International Publishing (<http://jvamc.uscip.us/>).

Reviewer (paid) for a book edited by Springer Verlag in 2014.

Member (paid) of the review panel for FIRB proposals submitted to the Italian Ministry of University and Research

Reviewer for the following international journals:

- Advances in Engineering Software (Elsevier)
- Advances in Structural Engineering (Multi-Science)
- Computer-Aided Civil and Infrastructure Engineering (Wiley)
- Earthquakes and Structures (Technopress)
- Engineering Structures (Elsevier)
- Fatigue and Fracture of Engineering Materials and Structures (Wiley)
- International Journal of Fatigue (Elsevier)
- International Journal of Structural Stability and Dynamics (World Scientific)
- Journal of Bridge Engineering (ASCE)
- Journal of Engineering Mechanics (ASCE)
- Journal of Engineering Mathematics (Springer)
- Journal of the Institution of Engineers (India): Series C (Springer)
- Journal of Sound and Vibration (Elsevier)
- Journal of Vibration and Acoustics (ASME)
- Journal of Vibration and Control (SAGE)
- Journal of Wind Engineering and Industrial Aerodynamics (Elsevier)
- Materials (MDPI)
- Polymers (MDPI)
- Smart Materials and Structures (IOP Science)
- Smart Structures and Systems (Technopress)
- Soil Dynamics and Earthquake Engineering (Elsevier)
- Structural Control and Health Monitoring (Wiley)
- Structural Engineering and Mechanics (Technopress)

Research Projects

2014 - today	Principal Investigator of the project entitled "Structural Health Monitoring for the Preservation of the Architectural Heritage: the Bell-Tower of the Basilica of S. Pietro in Perugia and the Dome of the Basilica of S. Maria degli Angeli in Assisi" funded by Fondazione Cassa di Risparmio di Perugia (Perugia, Italy), grant number 2014.0266.021.
2014 - today	Member of the research group of the project entitled "RELUIS", line 6, funded by the Italian Department of Civil Protection.
2012-2014	Member of the research group of the project entitled " Innovative Sustainable Rural Building with Energy Autonomy: T.I.A.R." funded by the Italian Ministry of Agriculture.
2010 - 2012	Member of the research group of the project entitled "Development of active response control systems and techniques for the seismic protection of structures", funded by Fondazione Cassa di Risparmio di Perugia (Perugia, Italy).
2008	Member of the research group of the project entitled "Identification of the Dynamic Characteristics of the New Carquinez Bridge Using Ambient Vibration Measurements", Columbia University, New York, USA, funded by California Department of Conservation, Strong Motion Instrumentation.
2008	Member of the research group of the project entitled "Corrosion Monitoring System for Main Cables of Suspension Bridges", Columbia University, New York, USA, funded by Federal Highway Administration.

Research Contracts

2014 - today	Principal Investigator of the research agreement between the Department of Civil and Environmental Engineering of University of Perugia and the Foundation for Agricultural Education in Perugia for the cooperation in the development of a vibration-based structural health monitoring system for the bell-tower of the Basilica of S. Pietro in Perugia.
2013	Member of the research group of the contract entitled "Dynamic investigation of the internal stairway of the ex-cinema Belsito building in Rome", between Baglioni S.r.l. and the Department of Civil and Environmental Engineering of University of Perugia.
2011	Member of the research group of the contract entitled "Cyclic tests on continuous beam-column joints for reinforced concrete precast structures", between Generale Prefabbricati S.p.a. and the Department of Civil and Environmental Engineering of University of Perugia.
2009 - 2011	Member of the research group of the contract entitled "Analysis methods for the evaluation of the disturbance induced by railway traffic in metropolitan tunnels", between SINTAGMA S.r.l. and the Department of Civil and Environmental Engineering of University of Perugia.
2009 - 2012	Member of the research group of the contract entitled "Study of the seismic vulnerability of the buildings owned by Bank of Italy " (buildings in Bologna and Forli), between Bank of Italy and the Department of Structural and Geotechnical Engineering of University of Rome "La Sapienza".

Organization of scientific meetings

2014	Co-organizer of the minisymposium "Innovative sensing solutions for reducing uncertainty in engineering systems" within the "Thematic Conference on Uncertainty Quantification in Computational Sciences and Engineering (UNCECOMP 2015)", to be held in Crete, Greece, May 25th-27th 2015.
2012	Member of the National Organizing Committee of the International Conference "6th International Conference on Bridge Maintenance, Safety and Management (IABMAS 2012)", Stresa, July 8th-12th, 2012.
2012	Session Chairman within the "6th International Conference on Bridge Maintenance, Safety and Management (IABMAS 2012)", Stresa, Italy, July 8th-12th, 2012.
2012	Member of the Local Organizing Committee of the Conference "AID Monuments", Perugia, May 24th-26th 2012.
2010	Member of the Local Organizing Committee of the "11th National Conference on Wind Engineering (IN-VENTO-2010)", Spoleto, Italy, June 30th - July 3rd, 2010.
2008	Session Chairman within the "First International Symposium on Life-Cycle Civil Engineering (IALCCE'08)", Varenna, Italy, June 10th -14th, 2008.

Commissions of trust

2009-today	Member of the Scientific Advisory Board of the Center of Research on Structural Aerodynamics and Wind Engineering (CRIACIV), University of Florence, Italy
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Memberships of scientific societies

2012-oggi	Member of the International association for bridge maintenance and safety (IABMAS)
2013-oggi	Member of the Group of Dynamics and Stability (GADeS) of the Italian Association of Theoretical and Applied Mechanics (AIMETA)
2008-oggi	Member of the Italian Association of Wind Engineering (ANIV)
2006-oggi	Member of the H2CU Junior research group of the Honors Center of Italian Universities (H2CU) of University of Rome "La Sapienza".

TEACHING ACTIVITY

Courses thought

2012 - today	Appointed Teacher of the course entitled "Theory and Design of Bridges", Master Degree in Civil Engineering, University of Perugia, Italy.
2010 - 2012	Appointed Teacher of the course entitled "Experimental Diagnosis of Structures", Master Degree in Civil Engineering, University of Perugia, Italy.
2010 - 2012	Appointed Teacher of the course entitled "Laboratory of Structural Design", Master Degree in Building and Architectural Engineering, University of Perugia, Italy.
2009 - 2010	Appointed Teacher of the course entitled "Structural Rehabilitation II ", Master Degree in Civil Engineering, University of Perugia, Italy.

Students' evaluations of teaching activity

A.Y.	Course	Obtained score	Average score of the degree course
2013-2014	Theory and Design of Bridges	8.0	7.8
2012-2013	Theory and Design of Bridges	7.5	7.7
2010-2011	Experimental Diagnosis of Structures	7.9	7.7
2010-2011	Laboratory of Structural Design	8.1	7.5
2009-2010	Structural Rehabilitation II	7.2	7.1

Other teaching activities

2009 - today	Advisor of several Master Degree Theses at the Department of Civil and Environmental Engineering, University of Perugia, Italy.
2011	Revisor of two Master Theses of students of Politecnico di Milano since 2011.
2009 - today	Member of the examination committee of the course of "Structural Design", Bachelor Degree in Civil Engineering, University of Perugia, Italy.
2009 - 2012	Teaching assistant of the course of "Structural Design", Bachelor Degree in Civil Engineering, University of Perugia, Italy.
2009 - 2012	Member of the examination committee of the course of "Advanced Structural Design", Master Degree in Civil Engineering, University of Perugia, Italy.
2009 - 2012	Teaching assistant of the course of "Advanced Structural Design", Master Degree in Civil Engineering, University of Perugia, Italy.
2006 - 2008	Appointed teacher of the "Didactic Seminars" of the course of "Structural Mechanics", Bachelor Degree in Civil Engineering, University of Pavia.

Doctoral Courses

2010 - today	Member of the Board of Teachers of the International Doctoral Course "Processes, Materials and Constructions in Civil and Environmental Engineering and for The Protection of the Historic-Monumental Heritage" jointly organized between University of Florence and Technical University of Braunschweig.
2011 - today	Co-tutor of a PhD candidate of the International Doctoral Course "Processes, Materials and Constructions in Civil and Environmental Engineering and for The Protection of the Historic-Monumental Heritage" jointly organized between University of Florence and Technical University of Braunschweig.
2013 - 2014	Member of the Board of Teachers of the Doctoral Course in "Civil Engineering and Innovative Materials", University of Perugia, Italy.
October 2014	Member of the committee for the admission to the final PhD exam at the "College of Engineering", Iowa State University, Ames, USA.
June 2013	Member of the Committee for the Final Exam of the PhD Course in Civil Engineering of University of Pavia.

November 2012	Appointed teacher of the course of "Elements of Operational Modal Analysis" at the International Doctoral Course "Processes, Materials and Constructions in Civil and Environmental Engineering and for The Protection of the Historic-Monumental Heritage" jointly organized between University of Florence and Technical University of Braunschweig.
June 2010	Appointed teacher of the course of "Elements of numerical analysis for engineering" at the Doctoral Course in "Civil Engineering and Innovative Materials", University of Perugia, Italy..

Professional courses

2013	Member of the Committee for the final exams of the II level Master Program in "Management for urban requalification", University of Perugia.
2012	Appointed teacher of "Methods and instruments for survey and control of structures" at the the II level Master Program in "Management for urban requalification", University of Perugia.
December 2011	Member of the Committee for the final exams of the II level Master Program in "Innovation in Design, Rehabilitation and Control of Structures: Assessment and Requalification in Seismic Regions", University of Roma 3, Rome.
2011	Teacher in the professional course "The New Italian Technical Standards for Constructions: novelties and applicative aspects", Board of Surveyor of the Province of Perugia.
2010	Teacher in the professional course "The New Italian Technical Standards for Constructions", Villa Umbra School of Public Administration, Perugia.
2010	Teacher in the professional course "Course on the New Italian Technical Standards for Constructions", Board of Architects of the Province of Perugia.
2009 - 2010	Teacher in the professional course "Course on the New Italian Technical Standards for Constructions", Board of Engineers of the Province of Terni.
2008 - 2009	Teacher in the professional course "Course on the New Italian Technical Standards for Constructions", Board of Engineers of the Province of Perugia.

Other teaching assignments

November 2011	Member of the evaluation committee for the assignment of 7 scholarships at the Department of Civil Engineering of University of Perugia.
2011	Tutor of various educational projects at the Province of Perugia.
2009	Expert member in the examination commission for the professional qualification in Civil Engineering, University of Perugia.

News published in national media

May 2014	"Civil Engineering Students visit Valdichienti Construction Sites", Corriere dell'Umbria, May 17th 2014. The article is available at the following link: http://corrieredellumbria.corr.it/news/perugia/142430/Gli-studenti-di-Ingegneria-in-visita.html
May 2014	"Engineering Students Visit Construction Sites", press announcement of Quadrilatero Spa. The article is available at the following link: http://www.quadrilaterospa.it/news/notizia.asp?id={213E1456-F13E-4B3F-91CA-

SCIENTIFIC PUBLICATIONS

ISI International Journals¹

1. S. Kharroub, S. Laflamme, S. Madbouly, **F. Ubertini**, 2015, Bio-Based Soft Elastomeric Capacitor for Structural Health Monitoring Applications, *Structural Health Monitoring*, 14(2): 158-167. [Q1]
2. A. D'Alessandro, **F. Ubertini**, A. L. Materazzi, S. Laflamme, M. Porfiri, 2015, Electromechanical modelling of a new class of nanocomposite cement-based sensors for structural health monitoring, *Structural Health Monitoring*, 14(2): 137-147. [Q1]
3. **F. Ubertini**, I. Venanzi, G. Comanducci, 2015, Considerations on the implementation and modeling of an active mass driver with electric torsional servomotor, *Mechanical Systems and Signal Processing*, 58: 53-69. [Q1]
4. G. Comanducci, **F. Ubertini**, A.L. Materazzi, 2015, Structural health monitoring of suspension bridges with features affected by changing wind speed, *Journal of Wind Engineering & Industrial Aerodynamics*, 141: 12-26. [Q2]
5. S. Laflamme, **F. Ubertini**, H. Saleem, A. D'Alessandro, A. Downey, H. Ceylan, A. L. Materazzi, 2014, Dynamic Characterization of a Soft Elastomeric Capacitor for Structural Health Monitoring, *ASCE Journal of Structural Engineering*, DOI: [10.1061/\(ASCE\)ST.1943-541X.0001151](https://doi.org/10.1061/(ASCE)ST.1943-541X.0001151). [Q2]
6. **F. Ubertini**, 2014, Effects of cables damage on vertical and torsional eigenproperties of suspension bridges, *Journal of Sound and Vibration*, 333(11): 2404-2421. [Q1]
7. **F. Ubertini**, A.L. Materazzi, A. D'Alessandro, S. Laflamme, 2014, Natural frequencies identification of a reinforced concrete beam using carbon nanotube cement-based sensors, *Engineering Structures*, 60: 265-275. [Q1]
8. **F. Ubertini**, S. Laflamme, H. Ceylan, A.L. Materazzi, G. Cerni, H. Saleem, A. D'Alessandro, A. Corradini, 2014, Novel nanocomposite technologies for dynamic monitoring of structures: A comparison between cement-based embeddable and soft elastomeric surface sensors, *Smart Materials and Structures*, 23(4): 045023 (12 pp). [Q1]
9. **F. Ubertini**, 2013, On damage detection by continuous dynamic monitoring in wind-excited suspension bridges, *Meccanica*, 48(5):1031-1051. [Q1]
10. A.L. Materazzi, **F. Ubertini**, A. D'Alessandro, 2013, Carbon nanotube cement-based transducers for dynamic sensing of strain, *Cement & Concrete Composites*, 37(1): 2-11. [Q1]
11. **F. Ubertini**, C. Gentile, A.L. Materazzi, 2013, Automated modal identification in operational conditions and its application to bridges, *Engineering Structures*, 46: 264-278. [Q1]
12. I. Venanzi, **F. Ubertini**, A.L. Materazzi, 2013, Optimal design of an array of active tuned mass dampers for wind-exposed high-rise buildings, *Structural Control and Health Monitoring*, 20: 903-917. [Q1]
13. **F. Ubertini**, A.L. Materazzi, 2013, Seismic response control of buildings with force saturation constraints, *Smart Structures and Systems*, 12(2): 157-179. [Q2]
14. A.L. Hong, **F. Ubertini**, R. Betti, 2013, New Stochastic Subspace Approach for System Identification and Its Application to Long Span Bridges, *ASCE Journal of Engineering Mechanics*, 139(6): 724-736. [Q2]

¹ Quartile (es. Q1: 1st quartile) indicated between square brackets from the IF ranking in the "Web of Science" database.

15. A.L. Materazzi, **F. Ubertini**, 2012, Robust Structural Control with System Constraints, *Structural Control and Health Monitoring*, 19(3): 472-490. [Q1]
16. A.L. Materazzi, **F. Ubertini**, 2011, Eigenproperties of Suspension Bridges with Damage, *Journal of Sound and Vibration*, 330(26): 6420-6434. [Q1]
17. **F. Ubertini**, A.L. Hong, R Betti, A.L. Materazzi, 2011, Estimating aeroelastic effects from full bridge responses by operational modal analysis, *Journal of Wind Engineering & Industrial Aerodynamics*, 99(6-7): 786-797. [Q2]
18. L. Faravelli, **F. Ubertini**, C. Fuggini, 2011, System identification of a super high-rise building via a stochastic subspace approach, *Smart Structures and Systems*, 7(2): 133-152. [Q1]
19. L. Faravelli, C. Fuggini, **F. Ubertini**, 2011, Experimental study on hybrid control of multimodal cable vibrations, *Meccanica*, 46: 1073-1084. [Q2]
20. A.L. Hong, **F. Ubertini**, R. Betti, 2011, Wind analysis of a suspension bridge: identification and FEM simulation, *ASCE Journal of Structural Engineering*, 137(1): 133-142. [Q2]
21. **F. Ubertini**, 2010, Prevention of suspension bridge flutter using multiple tuned mass dampers, *Wind & Structures*, 13(3): 235-256. [Q2]²
22. L. Faravelli, C. Fuggini and **F. Ubertini**, 2010, Toward a hybrid control solution for cable dynamics: theoretical prediction and experimental validation, *Structural Control and Health Monitoring*, 17(4): 386-403. [Q1]
23. L. Faravelli, **F. Ubertini**, 2009, Nonlinear state observation for cable dynamics, *Journal of Vibration and Control*, 15(7): 1049-1077. [Q2]
24. **F. Ubertini**, 2008, Active feedback control for cable vibrations, *Smart Structures and Systems*, 4(4): 407-428. [Q2]
25. F. Casciati, **F. Ubertini**, 2008, Nonlinear vibration of shallow cables with semi-active tuned mass damper, *Nonlinear Dynamics*, 53(1-2): 89-106. [Q2]
26. F. Cluni, V. Gusella, **F. Ubertini**, 2007, A parametric investigation of wind-induced cable fatigue, *Engineering Structures*, 29(11): 3094-3105. [Q1]

Other International Journals

27. I. Venanzi, **F. Ubertini**, 2014, Free vibration response of a frame structural model controlled by a nonlinear active mass driver system, *Advances in Civil Engineering*, Article ID 745814, 11 pages, DOI: 10.1155/2014/745814.
28. **F. Ubertini**, F. Giuliano, 2010, Computer simulation of stochastic wind velocity fields for structural response analysis: comparisons and applications, *Advances in Civil Engineering*, Article ID 749578, 20 pages, DOI:10.1155/2010/749578.

International Conferences with peer review

29. I. Venanzi, **F. Ubertini**, L. Ierimonti, A.L. Materazzi, 2014, Non-linear control strategy for handling stroke limits of an active mass driver system, In: J. Rodellar, A. Guemes, F. Pozo (Eds.) *6WSCM World Conference on Structural Control and Monitoring*, July 15-17, Barcelona, Spain.

² ANIV 2010 Award.

30. S. Laflamme, J. Wu, C. Song, H. Saleem, F. Ubertini, 2014, Study of the Bidirectional Sensing Characteristic of a Thin Film Strain Gauge for Monitoring of Wind Turbine Blades, In: J. Rodellar, A. Guemes, F. Pozo (Eds.) *6WSCM World Conference on Structural Control and Monitoring*, July 15-17, Barcelona, Spain.
31. C. Gentile, F. Ubertini, N. Cavalagli, M. Guidobaldi, A.L. Materazzi, A. Saisi, 2014, Dynamic investigation of the "San Pietro" bell-tower in Perugia, *Proceedings of Eurodyn 2014 - IX International Conference on Structural Dynamics*, June 30th - July 2nd, Porto, Portugal.
32. I. Venanzi, F. Ubertini, G. Comanducci, A.L. Materazzi, 2014, Adaptive control strategies for active mass driver system with physical limitations, *Proceedings of Eurodyn 2014 - IX International Conference on Structural Dynamics*, June 30th - July 2nd, Porto, Portugal.
33. H. Saleem, S. Laflamme, F. Ubertini, 2014, Dynamic characterization of a soft elastomeric capacitor for structural health monitoring applications, *Proceedings of SPIE, Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2014*, March 10-14, San Diego, CA, USA.
34. A. D'Alessandro, F. Ubertini, A.L. Materazzi, M. Porfiri, 2014, Electrical modelling of carbon nanotube cement-based sensors for structural dynamic monitoring, *NANOFORUM 2013, AIP Conference Proceedings*, 1603: 23-30.
35. A.L. Materazzi, F. Ubertini, A. D'Alessandro, 2013, Carbon nanotube cement-based sensors for dynamic monitoring of concrete structures, *Proceedings of the 2013 FIB Symposium*, April 22-24, Tel Aviv, Israel.
36. F. Ubertini, C. Gentile, A.L. Materazzi, 2013, Time-frequency analysis of dispersive phenomena in bridges, *Proceedings of the IMOAC 2013 Conference*, May 13-15, Guimaraes, Portugal.
37. I. Venanzi, F. Ubertini, A.L. Materazzi, 2012, Performance of an array of tuned mass dampers for the mitigation of the 3D response of highrise buildings, *Proceedings of the 5th European Conference on Structural Control (EACS 2012)*, June 18-20, Genova, Italy,
38. F. Ubertini, A.L. Materazzi, 2012, Damage detection in suspension bridges from wind response measurements and automatic mode selection: a feasibility study, *Proceedings of the Sixth International Conference on Bridge Maintenance, Safety, Management, Resilience and Sustainability (IABMAS)*, July 8-12, Stresa, Italy.
39. C. Gentile, F. Ubertini, 2012, Radar-based Dynamic Testing and System Identification of a Guyed Mast, *Proceedings of the 10th Intl Conference on Vibration Measurements by Laser and Non Contact Techniques (AIVELA)*, June 27-29, Ancona, Italy.
40. F. Ubertini, A.L. Materazzi, C. Gentile, F. Pelliccia, 2012, Automatic Identification of Modal Parameters: Application to a Reinforced Concrete Arch Bridge, *Proceedings of the 5th European Conference on Structural Control (EACS 2012)*, June 18-20, Genova, Italy.
41. F. Ubertini, A.L. Materazzi, M. Moretti, M. Becchetti, I. Venanzi, G. Comanducci, 2012, An experimental setup for testing structural control strategies accounting for system constraints, *Proceedings of the 5th European Conference on Structural Control (EACS 2012)*, June 18-20, Genova, Italy.
42. I. Venanzi, F. Ubertini, A.L. Materazzi, 2011, Optimal design of a hybrid control system for the mitigation of the wind-induced torsional response of tall buildings, *Proceedings of the 8th International Conference on Structural Dynamics (Eurodyn 2011)*, July 4-6, Leuven, Belgium.
43. M. Breccolotti, A.L. Materazzi, D. Salciarini, C. Tamagnini, F. Ubertini, 2011, Vibrations induced by the new underground railway line in Palermo, Italy. Experimental measurements and FE modeling, *Proceedings of the 8th International Conference on Structural Dynamics (Eurodyn 2011)*, July 4-6, Leuven, Belgium.
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