



## **Dottorato di Ricerca in Ingegneria Civile** **Graduate School in Civil Engineering**

Sede: Facoltà di Ingegneria - Università di Pavia - Via Ferrata, 1 - 27100 Pavia - Italy

- ☐ Dipartimento di Meccanica Strutturale - Tel. 0382 - 505450 - Fax 0382 - 528422
- ☐ Dipartimento di Ingegneria Idraulica e Ambientale - Tel. 0382 - 505300 - Fax 0382 - 505589

- **Clemente Fuggini:**

### **JOURNALS**

Casciati F., Faravelli L., Fuggini C., 2008, *Cable vibration mitigation by added SMA wires*, Acta Mechanica 195, pp. 141-155, Springer

Faravelli L., Fuggini C., Ubertini F., 2008, *Towards a hybrid control solution for cable dynamics: theoretical prediction and experimental validation*, accepted for publication on Structural Control and Health Monitoring, Wiley InterScience, DOI: 10.1002/stc.313

Casciati, F., Fuggini, C., 2009, *Engineering Vibration Monitoring by GPS: Long Duration Records*, Earthquake Engineering and Engineering Vibration, vol. 8, no. 3, pp. 459-467

Faravelli L., Fuggini C., Ubertini F., 2008, *Adaptive solution for intelligent cable vibration mitigation*, Advances in Science and Technology, 56, pp. 137-146, Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AST.56.137

### **BOOKS**

F. Casciati, C. Fuggini, "*Towards Global Positioning System-Based Structural Health Monitoring*", in B.H.V. Topping, L.F. Costa Neves, R.C. Barros, (Editors), "Trends in Civil and Structural Engineering Computing", Saxe-Coburg Publications, Stirlingshire, UK, Chapter 15, pp. 319-352, 2009, doi:10.4203/csets.22.15

### **PROCEEDINGS**

Casciati F., Fuggini C., *Ricevitori GPS a doppia frequenza: affidabilità di precisione nelle misure* (in Italian), Proceedings of the 12<sup>th</sup> National Conference on Non-Destructive tests, Monitoring and Diagnostic (AIPnD 2007), October 11-13, 2007, Milan, CD ROM (article n°16), ISBN 978-88-89758-03-8, published on The e-Journal & Exhibition of Nondestructive Testing, <http://www.ndt.net/search/docs.php3?MainSource=-1&id=7255>, ISSN 1435-4934

Ubertini F., Fuggini C., *Confronto di due tecniche per l'identificazione e il monitoraggio dei cavi strutturali mediante prove sperimentali* (in Italian), Proceedings of the 12<sup>th</sup> National Conference on Non-Destructive tests, Monitoring and Diagnostic (AIPnD 2007), October 11-13, 2007, Milan, CD ROM (article n°17), ISBN 978-88-89758-03-8, published on The e-Journal & Exhibition of Nondestructive Testing, <http://www.ndt.net/search/docs.php3?MainSource=-1&id=7256>, ISSN 1435-4934

Casciati F., Fuggini C., Bonanno C., *Dual frequency GPS receivers: reliability of precision of the measures*, Proceedings of the 4ème Colloque en Interdisciplinaire en Instrumentation C2I, October 17-19, 2007, Nancy, pp. 604-612, Hermes Science, Paris, ISBN 978-2-7462-1928-1

Casciati F., Fuggini C., *Measuring the displacements of a steel structure by GPS units*, Proceedings of the First International Symposium on Life-Cycle Engineering (IALCCE08), June, 11-14, 2008, Varenna, pp. 501-506, Taylor & Francis Group, London, ISBN 978-0-415-46857-2

Casciati F., Fuggini C., *Monitoring an Industrial Steel Building by GPS Receivers*, Proceedings of the Fourth European Workshop on Structural Health Monitoring 2008, July 2-4, 2008, Cracow, pp. 219-226, DEStech Publications Inc., Lancaster (USA), ISBN 978-1-932078-94-7

Casciati F., Fuggini C., *GPS Based Structural Identification: a Feasibility Study*, 8<sup>th</sup> World Congress on Computational Mechanics (WCCM8), 5<sup>th</sup> European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS 2008), June 30 – July 5, 2008, Venice, Abstract CD-ROM

Casciati F., Fuggini C., *GPS Based Structural Identification and health monitoring*, Proceedings of the Fourth European Conference on Structural Control (ECSC2008), September 8-12, 2008, St. Petersburg, pp. 133-140, A. Belyaev and D. Indeitsev (Editors), ISBN 978-5-904045-10-4

AlSaleh R., Casciati F., Fuggini C., *Detecting the torsional behavior of a tall building by GPS receivers*, COMPDYN 2009, ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, June 22-24, 2009, Rhodes, CD-ROM (article CD438)

Casciati F., Alsaleh R., Fuggini C. *GPS-Based SHM of a tall building: torsional effects*, Proceedings of the 7<sup>th</sup> International Workshop on Structural Health Monitoring 2009, September 9-11, 2009, Stanford University, Stanford, pp. 140-147

Casciati F., Fuggini C., *GPS Based Structural Health Monitoring: Uncertainty of the Measurements*, Proceedings of the 10<sup>th</sup> International Conference on Structural Safety and Reliability (ICOSSAR2009), September 14-17, 2009, Kansai University, Osaka, CD ROM

L. Faravelli, S. Casciati, C. Fuggini, *Full-scale experiment using GPS sensors for dynamic tests*, Proceedings of the XIX Congress AIMETA, September 14-17, 2009, Ancona, CD ROM

L. Faravelli, C. Fuggini and F. Ubertini: *Hybrid Control Procedures in Mitigating Cable Vibrations*, Proceedings of the 1st Japan-Austria Joint Workshop on Mechanics and Model Based Control of Smart Materials and Structures, H.Irschik, M. Krommer, K.Watanabe, T.Furukawa (eds.), SpringerWienNewYork, in print