

ACADEMIC CURRICULUM VITAE

Dr. Carlo Rainieri, Ph.D.

Education and training

- He got his M.Sc. in Civil Engineering (110 cum laude) at the University of Naples in 2005, with the thesis “Strengthening of tuff masonry walls by composite materials” (in Italian), supervisors: Prof. G. Manfredi, Prof. G. Fabbrocino;
- He got the qualification of Professional Engineer in 2006;
- In 2006 he obtained the fellowship to attend the Ph.D. Program in Engineering of Materials and Structures at the University of Naples “Federico II”;
- In 2009 he got his Ph.D. defending the thesis “Operational Modal Analysis for seismic protection of structures”;
- He has complemented his cultural background as a civil engineer by attending the following courses/seminars:
 - ✓ “Wireless Systems – First Level”, Atlantis Land, Naples, Italy, 2005;
 - ✓ “Experimental Modal Analysis”, Prof. F. Marulo, Department of Aerospace Engineering, University of Naples “Federico II”, Naples, Italy, 2006;
 - ✓ “Signal analysis”, Prof. G. Gelli, Department of Electronics and Telecommunications, University of Naples “Federico II”, Naples, Italy, 2006;
 - ✓ “Basics of measurements”, Prof. M. D’Arco, Department of Electrical Engineering, University of Naples “Federico II”, Naples, Italy, 2006;
 - ✓ “Operational Modal Analysis”, Brüel and Kjær University, Aalborg, Denmark, 2006;
 - ✓ “Engineering and earthquakes: advanced materials and techniques for structural design”, University of Molise, Termoli, Italy, 2006;
 - ✓ 12th AIMAT School “Composite materials based on polymer matrix”, Ischia, Italy, 2006;
 - ✓ “Theoretical & Experimental Modal Analysis, Identification & Diagnostics” by Dionisio Bernal and Daniele Zonta, Department of Mechanical and Structural Engineering, University of Trento, Trento, Italy, 2006;
 - ✓ “LabView Basics I”, National Instruments, Naples, Italy, 2006;
 - ✓ “LabView Basics II”, National Instruments, Naples, Italy, 2006;
 - ✓ “LabView Data Acquisition and Signal Conditioning”, National Instruments, Milan, Italy, 2006;

- ✓ “Dynamic methods for monitoring of civil engineering structures”, CISM, Udine, Italy, 2006;
- ✓ NIDays 2007 “Technological forum on Virtual Instrumentation”, National Instruments, Assago, Italy, 2007;
- ✓ “Validation and Updating of Finite Element Models for Structural Analysis”, Dynamic Design Solutions, Leuven, Belgium, 2007;
- ✓ “Wireless sensor networks for structural health monitoring”, by Prof. G. L. Fenves - University of California Berkeley, Department of Structural Engineering, University of Naples “Federico II”, Naples, Italy, 2007;
- ✓ SICON TC3 Course “Experimental Dynamics, Model Identification and Damage Detection”, University of Rome “La Sapienza”, Rome, Italy, 2008;
- ✓ “Innovation in the mitigation of seismic risk”, University of Naples “Federico II”, Naples, Italy, 2009;
- ✓ “Monitoring, Control and Identification of Bridges by Dynamic Methods”, CISM, Udine, 2010;
- ✓ “A class of null space techniques for damage localization” by Prof. Dionisio Bernal (Northeastern University, Boston, USA), Department of Structural Engineering, University of Naples “Federico II”, Naples, Italy, 2010;
- ✓ The 2010 Nanotechnology Materials and Devices Workshop, University of Cincinnati;
- ✓ “Structural Health Monitoring using Statistical Pattern Recognition” Short Course, Stanford University, Stanford, CA, USA, 2011.

Work Experience and participation to national and international scientific research projects

- In 2005 he got a position as Research Associate at the Department of Structural Analysis and Design at the University of Naples “Federico II”, joining the activities related to the design and installation of the structural monitoring system of the School of Engineering Main Building, and implementing output-only dynamic identification procedures in the context of the PON research project “T.E.C.S.A.S.” (Expert technologies for remote control and monitoring of strategic structures and infrastructures), Scientific coordinator: Prof. E. Cosenza;
- In 2005-06, in the same Department, he joined the research activities focused on software implementation of rapid visual screening procedures for seismic damage and vulnerability assessment in the context of the following research project: “T.E.G.E.S.” (Expert technologies for seismic vulnerability and emergency management) funded ex L. 598/94 – Campania Region, Scientific coordinator: Prof. G. Manfredi;
- In 2006-08 he carried out his research activities at the University of Molise (2006-08) in the context of Line 9 “Monitoring and early warning of strategic structures and infrastructures” of the DPC-ReLUIS 2005-2008 Research Project;
- In 2006-07 he supported the CRdC-AMRA (Center for analysis and monitoring of environmental risks - CRdC-AMRA S.c. a r.l., Via Nuova Agnano 11, 80125 Napoli) activities, coordinated by Prof. G. Fabbrocino, related to the design and implementation of a structural monitoring system for buildings of the IACP (the Italian Institute for Council Housing) in the Eastern area of Naples;

- In 2006-08, in the framework of the PON research project “T.E.C.S.A.S.” (Expert technologies for remote control and monitoring of strategic structures and infrastructures) first and then of the Line 9 “Monitoring and early warning of strategic structures and infrastructures” of the DPC-ReLUIIS 2005-2008 Research Project, he worked at the upgrading of the structural monitoring system of the School of Engineering Main Building at the University of Naples “Federico II” (scientific coordinators: Prof. E. Cosenza and Prof. G. Fabbrocino), developing and testing procedures for the automated extraction of modal parameters in output-only conditions to be used in the context of vibration based structural health monitoring programs;
- In 2007 he got a position for scientific cooperation at the University of Molise in the context of the INTERREG/CARDS-PHARE “Mitigation of Earthquake Effects in Towns and in INDUSTRIAL REGIONAL districts – MEETING” Research Project (scientific coordinators: Prof. L. Deseri, Prof. G. Fabbrocino) for the implementation of output-only modal identification algorithms;
- Since 2007 he works at the design, installation and management of the integrated dynamic and seismic monitoring system for the structural and geotechnical systems of the New Students’ Residence at the University of Molise in Campobasso; scientific coordinator: Prof. G. Fabbrocino;
- In 2008 he got a position from the ReLUIIS Consortium (the Institution coordinating the Italian Network of Universities and Laboratories working on Earthquake Engineering) for the years 2009-11 in the context of the FIRB “Assessment and reduction of seismic risk of large infrastructural systems – Task 2: Monitoring of strategic infrastructures” Research Project for the development of continuous, automated vibration based SHM methodologies for strategic structures and infrastructures;
- In 2009 he got a temporary job to support the activities of CRdC-AMRA related to seismic risk assessment of road infrastructures in the context of the research project D. 515-01/12/2008 “Development of technologies and models for observation and forecasting of natural disasters”;
- In 2009 he joined, as a member of the Research Unit of the University of Molise, the activities of the ReLUIIS Consortium for seismic damage assessment of public structures and infrastructures after the L’Aquila earthquake. In particular, he carried out a number of damage surveys in the area of L’Aquila and an extensive experimental campaign for the dynamic identification of six building blocks in the area of the School of Guardia di Finanza “V. Giudice” in Coppito – which shortly thereafter hosted the G8 meeting –. There he also installed and managed the monitoring system of the B1 Block of Buildings. Such activities were carried out under the coordination of the National Department of Civil Protection;
- Since 2007 he has carried out a number of dynamic identification tests, partially as an external consultant and partially to get additional funding from third party for the academic activities: output-only modal identification of sandwich panels in support to a technical consultancy in the Civil suit n°398/2001 R.G., n°80/2001 R.S., E.M.I.T. vs. E.R.S.A.M. and Fruttigel Molise S.c.r.l. (2007); output-only modal identification of the Niemeyer Auditorium in Ravello in the context of structural design validation activities - coordinator: Prof. E. Cosenza (2009); output-only modal identification of the main building of the ANAS (the Italian Institute responsible for road construction and maintenance) Regional Department in Molise (2009); output-only modal identification of a reinforced concrete

bridge on the Volturno river in Capua; output-only modal identification of the C9 body at the “Vulcano Buono” mall in Nola (2010); output-only modal identification of a footbridge in the area of the new hospital under construction in the Eastern area of Naples – Customer: Astaldi S.p.A. company (2011); output-only modal identification of a reinforced concrete moment frame building in Avellino – Customer: Department of Structural Engineering, University of Naples “Federico II” (2012); output-only modal identification of a school in Londa – Customer: University of Florence (2012); output-only modal identification of a metallic portal for sign posting on A1 Highway – Customer: SPEA S.p.A. company (2012); output-only modal identification of the Vesuvius Observatory masonry tower in Ercolano – Customer: University of Sannio (2013); design of repair interventions of a residential building in Piedimonte Matese damaged by the December 29th, 2013 earthquake – Customer: private owner (2014); output-only modal identification of a school in Lanciano – Customer: public administration (2014); output-only modal identification of Block A of the Main Hospital in Foggia – Customer: Ospedali Riuniti Foggia (Foggia’s Health care company and University) (2014); output-only modal identification of the bridge over the Ufita river in Apice – Customer: STRESS S.c.ar.l. (2015); output-only modal identification of a bridge model after simulated ground motions characterized by different magnitude, at the University of Naples “Federico II” - Customer: STRESS S.c.ar.l. (2015).

- In 2009-10 he carried out an extensive experimental campaign for the dynamic identification of 11 historical bell towers in Molise in the framework of the cooperation between the Structural and Geotechnical Dynamics Laboratory of the University of Molise and the Diocese of Termoli aiming at supporting the restoration of the buildings of worship after the earthquake occurred in 2002; scientific coordinator: Prof. G. Fabbrocino;
- In 2010-13 he joined the research activities of the Research Unit of the University of Molise in the context of the DPC-ReLUIS II 2010-2013 Research Project, AT3.1 “Development of technologies for monitoring and management of seismic risk”; scientific coordinator: Prof. G. Fabbrocino;
- In 2011-2012 he joined the research activities of the Structural and Geotechnical Dynamics Laboratory at the University of Molise aimed at the development of an integrated seismic monitoring system for the isolated building hosting the school “Angeli di San Giuliano” in San Giuliano di Puglia; such activities were part of a joint program involving also ENEA (the Italian Agency for New Technologies, Energy and Sustainable Economic Development) and the Italian Department of Civil Protection;
- Since 2011 he carries out research activities focused on the applications of carbon nanotubes to SHM of civil structures in the context of the NANOSENSE (Biomimetics and NANOTEchnologies for Structural hEalth moNitoring of civil StructurEs) Research Project. This has been awarded as Significant Bilateral Project within the Program of Scientific and Technological Cooperation between Italy and USA and it has been funded by the Ministry of Foreign Affairs ex L. 401/90. The US partner was the Nanoworld Laboratory at the University of Cincinnati coordinated by Prof. M. Schulz and Prof. V. Shanov;
- Since 2012 he is post doctoral fellow at the Structural and Geotechnical Dynamics Laboratory of the University of Molise, where he carries out research activities related to “Analysis and management of seismic risk of strategic buildings and infrastructures”;

- He is currently joining the research activities of the University of Molise Research Unit in the context of the DPC-ReLUIIS III 2014-2018 Research Project, RS4 – “Structural and seismic monitoring” and RS9 – “Seismic protection of health facilities”

Awards and other esteem indicators

- Since 2007 he gives lessons and tutorials about structural dynamics and design of reinforced concrete members at the School of Engineering of the University of Molise;
- In 2008 he got the Marie Curie Fellowship to attend the SICON TC3 “Experimental Dynamics, Model Identification and Damage Detection” Course;
- In 2008 he gave an invited lecture at the University of Salento (Lecce’s Seminars about Structural Engineering) entitled “Experimental estimation of the dynamic properties of structures in operational conditions”; scientific coordinator: Prof. M.A. Aiello;
- In 2008 he organized, in cooperation with Prof. G. Fabbrocino, the scientific meeting “Dynamic Identification in Operational Conditions” at the University of Molise in Campobasso; invited speakers: Prof. R. Brincker, Southern Denmark University; Prof. C. Gentile, Polytechnic of Milan; Prof. A. De Stefano, Polytechnic of Turin; Prof. F. Marulo, University of Naples “Federico II”; Dr. C. Salzano, International Aerospace Defence, PCB Piezotronics Inc.;
- Since 2008 he is member of the International Society for Structural Health Monitoring of Intelligent Infrastructure (ISHMII);
- Since 2011 he is member of the Society for Experimental Mechanics (SEM);
- Since 2011 he is member of the European Association of Structural Dynamics (EASD);
- In 2011 he was organizer, in cooperation with Prof. G. Fabbrocino, and speaker of the scientific meeting “Nanotechnologies and smart materials for SHM” at the University of Molise; other invited speakers: Dr. Y. Song (University of Cincinnati), Dr. P. Corvaglia (CETMA), Dr. L. Pascali (SIPRE) and Prof. L. Deseri (University of Trento); he also edited, together with Prof. A. Catalano and Prof. G. Fabbrocino, the book “Nanotechnologies and smart materials for SHM”;
- In 2011 he was invited to organize a special session in the context of the 4th International Operational Modal Analysis Conference by the Conference Chair, Prof. E. Safak (Bogazici University), so he organized the “Young Researcher Best Paper Award”. Moreover, he organized, together with Prof. G. Fabbrocino, the “Forum of the Young Engineers” at EVACES 2011 (Conference Chair: Prof. C. Gentile, Polytechnic of Milan);
- In 2012 and 2013 he organized and gave lectures, together with Prof. G. Fabbrocino, for the course “Elements of earthquake engineering” of the Ph.D. Programme in Seismic Risk at the University of Naples “Federico II”;
- In 2013 he has given the short course “Applications of nanotechnologies in civil engineering” for the undergraduate students of the School of Engineering at the University of Molise;
- Since 2013-14 he has in charge the course of “Structural dynamics and monitoring” for undergraduate students at the University of Molise;
- Since 2014-15 he has in charge the course of “Complements of dynamic identification and experimental analysis of structures”;
- In 2014 he has given lessons for the following courses: “Techniques and procedures for Structural Health Monitoring”, “Software implementation for Structural Health Monitoring”

and “Processing of monitoring data” organized for graduate students in the context of the PON 01_02366 Research Project “STRIT – Tools and technologies for risk management of transportation infrastructures”;

- In 2012 he founded S2X s.r.l. (www.s2x.it), spin off company of the University of Molise; he is currently CEO of the company, which takes advantage of a number of systems, software and algorithms for output-only modal identification and vibration based structural health monitoring that have been implemented for research purposes over the years;
- In 2014 he has given the following invited lectures: “Automated Operational Modal Analysis for Structural Health Monitoring and performance assessment of civil structures” at Carnegie Mellon University in Pittsburgh, and “Signal processing for Structural Health Monitoring and performance assessment of civil structures” at Georgia Tech Research Institute in Atlanta;
- Since 2014 he is Committee member of the International Conference on Engineering, Technology and Applied Science;
- Since 2015 he is Committee member of the International Operational Modal Analysis Conference;
- He has been supervisor of several B.Sc. and M.Sc. Theses at the University of Molise and the University of Naples “Federico II”, and he has coordinated small workgroups on specific research tasks and for product development;
- He joined as a speaker the following conferences, mainly focused on experimental modal analysis, structural health monitoring, structural dynamics and earthquake engineering:
 - ✓ CanSmart 2006 - International Workshop on Smart Materials and Structures, Toronto, Canada;
 - ✓ IUAV Conference 2006 – Testing on structures and materials, Venice, Italy (Italian conference);
 - ✓ ANIDIS 2007 – XII National Conference on Earthquake Engineering in Italy, Pisa, Italy (Italian conference);
 - ✓ DAMAS 2007 – 7th International Conference on Damage assessment of structures, Turin, Italy;
 - ✓ IOMAC 2007 –The 2nd International Operational Modal Analysis Conference, Copenhagen, Denmark;
 - ✓ ISEC-04 - The Fourth International Structural Engineering and Construction Conference, Melbourne, Australia;
 - ✓ IWSHM 2007 – The 6th International Workshop on Structural Health Monitoring, Stanford, USA;
 - ✓ INTERREG M.E.E.T.I.N.G. 2007 Workshop on Mitigation of the earthquake effects in towns and in industrial regional districts, Termoli, Italy;
 - ✓ IABSE Conference on Information and Communication Technology (ICT) for Bridges, Buildings and Construction Practice, Helsinki, Finland;
 - ✓ INTERREG M.E.E.T.I.N.G. 2008 Final Conference, Termoli, Italy;
 - ✓ ISMA 2008 – International Conference on Noise and Vibration Engineering, Leuven, Belgium;
 - ✓ CST 2008 - The Ninth International Conference on Computational Structures Technology, Athens, Greece;

- ✓ ANIDIS 2009 – XIII National Conference on Earthquake Engineering in Italy, Bologna, Italy (Italian conference);
- ✓ SHMII-4 – The Fourth International Conference on Structural Health Monitoring of Intelligent Infrastructures, Zurich, Switzerland;
- ✓ EVACES 2009 - The Third International Conference on Experimental Vibration Analysis for Civil Engineering Structures, Wroclaw, Poland;
- ✓ IOMAC 2009 – The 3rd International Operational Modal Analysis Conference, Portonovo, Italy;
- ✓ IWSHM 2009 – The 7th International Workshop on Structural Health Monitoring, Stanford, USA;
- ✓ EWSHM 2010 – The Fifth European Workshop on Structural Health Monitoring, Sorrento, Italy;
- ✓ ISMA2010 - International Conference on Noise and Vibration Engineering, Leuven, Belgium;
- ✓ ECCOMAS 2010 - European Conference on Computational Mechanics, Paris, France;
- ✓ CST 2010 - The Tenth International Conference on Computational Structures Technology, Valencia, Spain;
- ✓ ECT 2010 - The Seventh International Conference on Engineering Computational Technology, Valencia, Spain;
- ✓ APWSHM 2010 - The Third Asia-Pacific Workshop on Structural Health Monitoring, Tokyo, Japan;
- ✓ IMAC 2011 - The XXIX International Modal Analysis Conference, Jacksonville, FL, USA;
- ✓ IOMAC 2011 – The Fourth International Operational Modal Analysis Conference, Istanbul, Turkey;
- ✓ EURODEX 2011 – The Eighth International Conference on Structural Dynamics, Leuven, Belgium;
- ✓ IWSHM 2011 – The 8th International Workshop on Structural Health Monitoring, Stanford, USA;
- ✓ EVACES 2011 – The Fourth International Conference on Experimental Vibration Analysis of Civil Engineering Structures, Varenna, Italy;
- ✓ The International Workshop on Smart Materials and Structures & NDT in aerospace 2011, Montreal, Canada;
- ✓ “Nanotechnologies and smart materials for SHM” Workshop 2011, Campobasso, Italy;
- ✓ IMAC 2012 – The XXX International Modal Analysis Conference, Jacksonville, FL, USA;
- ✓ EACS 2012 – The Fifth European Conference on Structural Control, Genoa, Italy;
- ✓ IMAC 2013 – The XXXI International Modal Analysis Conference, Garden Grove, CA, USA;
- ✓ IWSHM 2013 – The 9th International Workshop on Structural Health Monitoring, Stanford, CA, USA;
- ✓ IMAC 2014 - The XXXII International Modal Analysis Conference, Orlando, FL, USA;

- ✓ IMAC 2015 - The XXXIII International Modal Analysis Conference, Orlando, FL, USA;
- ✓ IOMAC 2015 – The Sixth International Operational Modal Analysis Conference, Gijon, Spain;
- ✓ CanSmart 2015 - The International Conference on Smart Materials and Structures, Vancouver, BC, Canada.
- He was session chairman at the following conferences, mainly focused on experimental modal analysis, structural health monitoring, structural dynamics and earthquake engineering:
 - ✓ APWSHM 2010 - The Third Asia-Pacific Workshop on Structural Health Monitoring, Tokyo, Japan (1 session);
 - ✓ IOMAC 2011 – The Fourth International Operational Modal Analysis Conference, Istanbul, Turkey (3 sessions);
 - ✓ EURODEX 2011 – The Eighth International Conference on Structural Dynamics, Leuven, Belgium (2 sessions);
 - ✓ IOMAC 2015 – The Sixth International Operational Modal Analysis Conference, Gijon, Spain (1 session).
- He has given a contribution as a reviewer for the following International Journals:
 - ✓ Mechanical Systems and Signal Processing;
 - ✓ Applied Physics Letter;
 - ✓ Shock and Vibration;
 - ✓ Scientific Research and Essays;
 - ✓ Journal of Civil Structural Health Monitoring;
 - ✓ International Journal of Geophysics;
 - ✓ Engineering Structures;
 - ✓ Journal of Performance of Constructed Facilities;
 - ✓ Infrared Physics & Technology;
 - ✓ Case Studies in Nondestructive Testing and Evaluation;
 - ✓ ASTM Journal of Testing and Evaluation;
 - ✓ Royal Society Open Science;
 - ✓ Journal of Composite Materials;
 - ✓ IEEE Transactions on Automation Science and Engineering;
 - ✓ Journal of Intelligent Material Systems and Structures;
 - ✓ Earthquake Engineering and Engineering Vibrations;
 - ✓ International Journal of Mechanical Sciences;
 - ✓ Journal of Computational Methods in Science and Engineering;
 - ✓ Journal of Mechanical Engineering Science;
 - ✓ Journal of Reinforced Plastics and Composites.
- He has given a contribution as a reviewer for the following conferences:
 - ✓ 2014 Australian Control Conference;
 - ✓ The 2014 IEEE Workshop on Environmental, Energy and Structural Monitoring Systems;
 - ✓ International Conference on Engineering, Technology and Applied Science 2015.
- He is author of one book (Operational Modal Analysis of Civil Engineering Structure: An Introduction and Guide for Applications, edited by Springer), and more than 100 papers,

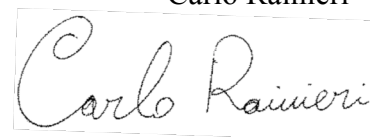
mainly focused on output-only modal identification and structural health monitoring, and published on International peer-reviewed Journals and National and International conference proceedings.

Results in technology transfer

- He is founder and CEO of S2X s.r.l., spin off company of the University of Molise. S2X s.r.l. (www.s2x.it) is a company aimed at providing highly qualified solutions and services in the field of civil and earthquake engineering. In particular, it is a consulting company offering complete services and integrated solutions to the design, construction and management issues of civil engineering structures and infrastructures. They include: design of advanced structural and seismic monitoring systems, based on innovative automated data processing procedures, integration between experimental tests and numerical analysis for seismic assessment of structures, dynamic identification tests and non-destructive tests for diagnostics, development and implementation of advanced data processing procedures, development of customized solutions and systems for specific applications. The ability to design and develop high performance monitoring systems for civil structures and architectural heritage allows a non-destructive characterization of the structural behavior and an effective performance and health assessment. Moreover, it provides opportunities for design and validation of interventions, seismic assessment and protection of structures, seismic emergency management, and for the development of smart structures able to carry out a self-diagnosis and support the scheduling of interventions according to a condition-based maintenance scheme. The company takes advantage of a number of systems, software and algorithms for output-only modal identification and vibration based structural health monitoring that have been implemented for research purposes over the years.

Campobasso, August 10th, 2015

Carlo Rainieri

A handwritten signature in black ink, reading "Carlo Rainieri", enclosed within a thin black rectangular border.

List of publications

International peer-reviewed Journals

1. RAINIERI C., Fabbrocino G. (2015). Development and validation of an automated operational modal analysis algorithm for vibration-based monitoring and tensile load estimation. MECHANICAL SYSTEMS AND SIGNAL PROCESSING (in press, available online: doi:10.1016/j.ymssp.2015.01.019).
2. RAINIERI C., Marra A., Fabbrocino G. (2015). On The Estimation of the Fundamental Modal Properties of Italian Historical Masonry Towers. INTERNATIONAL JOURNAL OF EARTHQUAKE ENGINEERING (in press).
3. RAINIERI C. (2014). Perspectives of Second Order Blind Identification for Operational Modal Analysis of Civil Structures. SHOCK AND VIBRATION, Vol. 2014, 9 p.
4. RAINIERI C., Fabbrocino G. (2014). Influence of model order and number of block rows on accuracy and precision of modal parameter estimates in stochastic subspace identification. INTERNATIONAL JOURNAL OF LIFECYCLE PERFORMANCE ENGINEERING, vol. 1, No. 4, p. 317-334.
5. RAINIERI C., Gargaro D., Song Y., Fabbrocino G., Schulz M.J., Shanov V. (2013). Towards the Standardized Fabrication of CNT-Cement Based Composites for Structural Health Monitoring: An Application-Oriented Literature Survey. JOURNAL OF MULTIFUNCTIONAL COMPOSITES, vol. 1(2).
6. RAINIERI C., Fabbrocino G., Verderame G.M. (2013). Non-Destructive Characterization And Dynamic Identification Of A Modern Heritage Building For Serviceability Seismic Analyses. NDT&E International, doi: <http://dx.doi.org/10.1016/j.ndteint.2013.06.003>, vol. 60, p. 17-31.
7. RAINIERI C., Fabbrocino G., Santucci de Magistris F. (2013). An Integrated Seismic Monitoring System for a Full-Scale Embedded Retaining Wall. GEOTECHNICAL TESTING JOURNAL, vol. 36, p. 1-13, ISSN: 0149-6115, doi: 10.1520/GTJ20120067
8. RAINIERI C., Fabbrocino G., Manfredi G., Dolce M. (2012). Robust output-only modal identification and monitoring of buildings in the presence of dynamic interactions for rapid post-earthquake emergency management. ENGINEERING STRUCTURES, vol. 34; p. 436-446, ISSN: 0141-0296
9. RAINIERI C., Fabbrocino G., Cosenza E. (2011). Integrated seismic early warning and structural health monitoring of critical civil infrastructures in seismically prone areas. STRUCTURAL HEALTH MONITORING, vol. 10; p. 291-308, ISSN: 1475-9217, doi: 10.1177/1475921710373296
10. RAINIERI C., Fabbrocino G., Cosenza E. (2011). Near real-time tracking of dynamic properties for standalone structural health monitoring systems. MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol. 25; p. 3010-3026, ISSN: 0888-3270, doi: 10.1016/j.ymssp.2011.04.010
11. RAINIERI C., Fabbrocino G. (2011). Performance assessment of selected OMA techniques for dynamic identification of geotechnical systems and closely spaced structural modes. JOURNAL OF THEORETICAL AND APPLIED MECHANICS, vol. 49; p. 825-839, ISSN: 1429-2955

12. Conte C., RAINIERI C., Aiello M.A., Fabbrocino G. (2011). On-site assessment of masonry vaults: dynamic tests and numerical analysis. *GEOFIZIKA*, vol. 28; p. 127-143, ISSN: 0352-3659
13. RAINIERI C., Fabbrocino G. (2011). Operational Modal Analysis for the characterization of heritage structures. *GEOFIZIKA*, vol. 28; p. 109-126, ISSN: 0352-3659
14. RAINIERI C., Fabbrocino G. (2010). Automated output-only dynamic identification of civil engineering structures. *MECHANICAL SYSTEMS AND SIGNAL PROCESSING*, vol. 24; p. 678-695, ISSN: 0888-3270, doi: 10.1016/j.ymssp.2009.10.003
15. RAINIERI C., Fabbrocino G., Cosenza E. (2010). Some remarks on experimental estimation of damping for seismic design of civil constructions. *SHOCK AND VIBRATION*, vol. 17; p. 383-395, ISSN: 1070-9622, doi: 10.3233/SAV-2010-0534
16. Fabbrocino G., Laurenza C., RAINIERI C., Santucci de Magistris F. (2009). Seismic monitoring of structural and geotechnical integrated systems. *MATERIALS FORUM*, vol. 33; p. 404-419, ISSN: 0883-2900
17. RAINIERI C., Fabbrocino G., Cosenza E. (2009). An automated procedure for modal parameter identification of structures under operational conditions. *MATERIALS FORUM*, vol. 33; p. 62-78, ISSN: 0883-2900
18. RAINIERI C., G. Fabbrocino, E. Cosenza (2007). Automated Operational Modal Analysis as structural health monitoring tool: theoretical and applicative aspects. *KEY ENGINEERING MATERIALS*, vol. 347; p. 479-484, ISSN: 1013-9826, doi: 10.4028/www.scientific.net/KEM.347.479

Books

19. RAINIERI C., Fabbrocino G. (2014). *Operational Modal Analysis of Civil Engineering Structures: An Introduction and Guide for Applications*, Springer, New York.

Edited books

20. Catalano A., Fabbrocino G. and RAINIERI C. Ed. (2012). *Nanotechnologies and smart materials for SHM*. Campobasso: AGR Editrice, p. 1-112, ISBN: 978-88-88102-47-4

International Conference Proceedings

21. RAINIERI C., Marra A., Rainieri G.M., Gargaro D., Pepe M., Fabbrocino G. (2015). Integrated non-destructive assessment of relevant structural elements of an Italian heritage site: the Carthusian monastery of Trisulti. In: *Proceedings of The 11th International Conference on Damage Assessment of Structures (DAMAS 2015)*, Journal of Physics: Conference Series 628 (2015) 012018, Ghent, Belgium.
22. RAINIERI C., Fabbrocino G. (2015). Vibration-based continuous monitoring of cable dynamics and axial loads: environmental influence. In: *Proceedings of CANSMART 2015: International Conference on Smart Materials and Structures and SMN 2015: 5th International Conference on Smart Materials and Nanotechnology in Engineering*, Vancouver, BC, Canada.
23. RAINIERI C., Fabbrocino G. (2015). Noise sensitivity of a hybrid automated Operational Modal Analysis algorithm for vibration-based monitoring. In: *Proceedings of IZIS-50 International Conference on Earthquake Engineering and Seismology*.

24. RAINIERI C., Gargaro D., Fabbrocino G. (2015). The role of Operational Modal Analysis in the non-destructive assessment of an Italian monument. In: Proceedings of the Sixth International Operational Modal Analysis Conference, Gijon, Spain.
25. RAINIERI C., Fabbrocino G. (2015). Learning Operational Modal Analysis in four steps. In: Proceedings of the Sixth International Operational Modal Analysis Conference, Gijon, Spain.
26. RAINIERI C., Gargaro D., Fabbrocino G. (2015). Statistical tools for the characterization of environmental and operational factors in vibration-based SHM. In: Proceedings of IMAC XXXIII, Orlando, FL, USA.
27. Fabbrocino G., RAINIERI C., Di Tullio M., Santucci de Magistris F. (2014). An example of employment of static and dynamic monitoring to understand the behaviour of a flexible retaining wall. In: Proceedings of The 20th IMEKO TC-4 International Symposium, Benevento, Italy.
28. RAINIERI C., Gargaro D., Cieri L., Fabbrocino G. (2014). Stand-alone NDT system for tensile force estimation in cables and tie rods. In: Proceedings of The IEEE Workshop on Environmental, Energy and Structural Monitoring Systems, Naples, Italy.
29. RAINIERI C., Gargaro D., Fabbrocino G. (2014). Vibration-based monitoring of tensile loads: system development and application. In: Proceedings of the 7th European Workshop on Structural Health Monitoring, Nantes, France (accepted for publication).
30. RAINIERI C., Gargaro D., Cieri L., Fabbrocino G. (2014). Vibration-Based Continuous Monitoring of Tensile Loads in Cables and Rods: System Development and Application, In: Proceedings of IMAC XXXII, Orlando, FL, USA.
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Campobasso, 10/08/2015

DICHIARAZIONE SOSTITUTIVA DELL'ATTO DI NOTORIETA'

(Art. 47 D.P.R. 28 dicembre 2000, n. 445)

resa ai sensi dell'art.15 c.1, lett. c) del Dlgs 33/2013

Il/la sottoscritto/a RAINIERI CARLO

consapevole delle sanzioni penali, nel caso di dichiarazioni non veritiere, di formazione o uso di atti falsi, richiamate dall'art. 76 del D.P.R. 445 del 28 dicembre 2000, relativamente a quanto disposto dal DLgs 33/2013 art. 15 c.1 lettera c) con riferimento all'incarico di DOCENTE A CONTRATTO conferito dall'Università degli Studi del

Molise, presso il Dipartimento di BIOSCIENZE E TERRITORIO

DICHIARA

☒ di **non** svolgere incarichi in enti di diritto privato regolati o finanziati dalla pubblica amministrazione;

☐ di svolgere n. _____ incarico/incarichi in ente/i di diritto privato regolato/i o finanziato/i dalla pubblica amministrazione presso _____

☒ di **non** avere titolarità di cariche in enti di diritto privato regolate o finanziate dalla pubblica amministrazione;

☐ di avere titolarità di cariche in enti di diritto privato regolate o finanziate dalla pubblica amministrazione presso _____

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Il sottoscritto dichiara inoltre, rispetto all'incarico di cui sopra, che non sussistono situazioni, anche potenziali, di conflitto di interesse con l'Università degli Studi del Molise.

Luogo e data

CAMPOTASSO, 11/09/2015

Firma
Carlo Rainieri