

CV Giuseppe Alfredo MUSCOLINO

PERSONAL INFORMATION)

Muscolino Giuseppe (Alfredo)

Orcid ID: 0000-0003-4199-6214

Scopus Author ID: 7005646389

Google Scholar, ResearchGate: Giuseppe Muscolino

CURRENT POSITION

2001–present:

Full Professor of Mechanics of Solids and Structures (ICAR/08-*Scienza delle Costruzioni*)
Department of Engineering, University of Messina, Italy.

EDUCATION

1977: Master Degree in Civil Engineering (“Laurea magna cum laude” and awarded for the thesis),
University of Palermo, Italy.

ACADEMIC CAREER

1993-2001: Full Professor of Dynamics of Structures, Faculty of Engineering, University of Messina,
Italy.

1990-1992: Full Professor of Mechanics of Solids and Structures, Faculty of Architecture,
University of Palermo, Italy.

1988-1990: Associate Professor of Statics, Faculty of Architecture, University of Palermo, Italy.

1983-1988: Assistant Professor of Mechanics of Solids and Structures, Faculty of Engineering,
University of Palermo, Italy.

MAIN BIBLIOMETRIC INDICATORS May, 19th, 2021 (Database Scopus)

Total number of indexed documents: 173 of which 97 are published in international peer-reviewed
journals. Total number of citations: 2501. H-index: 29.

VISITING APPOINTMENTS (selection)

2017: Department of Engineering Science, University of Oxford, U.K.

2017: School of Civil and Building Engineering of Loughborough University, U.K.

2014: Department of Engineering, University of Cambridge, U.K.

- **MAIN TEACHING ACTIVITIES (selection)**

1992-present: *Dynamics of Structures*, Department /Faculty of Engineering, University of Messina.

2009-present: *Seismic Analysis of Structures*, Department/Faculty of Engineering, University of Messina.

1992-2009: *Mechanics of Solids and Structures*, Faculty of Engineering, University of Messina.

1997-1999: *Theory and Project of Bridges*, Faculty of Engineering, University of Messina.

2003-2006: *Statics and Seismic of Masonry Constructions*, Faculty of Engineering, University of Messina.

1990-1992: *Mechanics of Solids and Structures*, Faculty of Architecture, University of Palermo.

1988-1990: *Statics*, Faculty of Architecture, University of Palermo.

INSTITUTIONAL RESPONSABILITIES (selection)

2017-present: Head of the: Interuniversity Centre of Experimental and Theoretical Dynamics (C.I.Di.S.).

2006-present: Manager of the *Lab of Experimental tests on Materials and Structures*, Department of Engineering, University of Messina.

1998-2016: National Coordinator of the Italian Group AIMETA of Stochastic Mechanics.

2011-2012: Scientific Manager of second level Master in *Seismic Engineering*, co-funded by *Regione Sicilia*, University of Messina.

2004-2010: Head of the: Interuniversity Centre of Experimental and Theoretical Dynamics (C.I.Di.S.).

2007-2008: Scientific Manager of First level Master in “*Mechatronics of Production Activities*”, co-funded by *Regione Sicilia*, University of Messina.

2003-2004: Technical-Scientific Coordinator of second level Master in *Seismic Engineering*, University of Messina.

2000-2012: Coordinator of Ph.D. Course of *Civil and Environmental Engineering*, University of Messina.

1995-2004: Head of the Department of *Constructions and Advanced Technologies* (DiCTA), University of Messina.

- **SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS**

1994-present: supervisor of n. 16Ph.D. students and n.10 post-Ph.D. Students

EDITORIAL ACTIVITIES AND COMMISSIONS OF TRUST

2005-present: Member of the Editorial Board of “*Computers & Structures*”, Elsevier.

2005-present: Member of the Editorial Board of “*Probabilistic Engineering Mechanics*”, Elsevier.

2004-2011: Associate Editor of the Journal “*Meccanica*”, Springer.

2017: Guest editor of the Special Issue “*Stochastic Mechanics (SM16)*” for *Probabilistic Engineering Mechanics*”.

2015: Guest editor of the Special Issue “Nonprobabilistic Treatments of Uncertainty: Recent Developments” for *Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering*.

2015: Guest editor of the Special Section “Non-probabilistic Approaches for Handling Uncertainty in Engineering” for *Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering*.

2014: Guest editor of the Special Issue “Stochastic Mechanics (SM12)” for *Probabilistic Engineering Mechanics*.

REFEREE ACTIVITIES

Referee of about 40 international journals, and 20 international conferences.

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

1999-present: Member of the *Interuniversity Center of Experimental and Theoretical Dynamics* (C.I.Di.S.).

1986-present: Member of the *Italian Association of Theoretical and Applied Mechanics* (AIMETA).

2013-2016: Member of the *American Society of Mechanical Engineering* (ASME).

1993-2015: Member of the *National Italian Association of Seismic Engineering* (ANIDIS).

2010-2012: Member of the Technical-Scientific Committee of *Stretto di Messina S.p.A.*

2001-2012: Member of the *American Society of Civil Engineering* (ASCE).

2005-2006: Member of the Technical-Scientific Committee of *Stretto di Messina S.p.A.*

ORGANIZATION OF CONFERENCES (selection)

2021: Co-chairman of International “*Workshop on Reliable Engineering Computing Risk and Uncertainty in Engineering Computations* (REC 2021)” May 17-20, 2021, Virtual Conference

2016: Co-chairman of International Conference “*Stochastic Mechanics* (SM16)”, June 12-15, Capri (NA), Italy

2012: Co-chairman of International Conference “*Stochastic Mechanics* (SM12)”, June 7-10, Ustica (PA), Italy.

2008: Co-chairman of International Conference in “*Earthquake Engineering: MERCEA '08*”, June 23-27, Messina and Reggio Calabria, Italy.

2007: Co-chairman of International Symposium on “*Recent Advances in Mechanics, Dynamics, Probability, MDP2007*”, 3-6 June, Palermo Italy.

2006: Co-chairman of Italian Conference “*Crolli e Affidabilità delle Strutture Civili, CRASC '06*”, 20-22 April, Messina, Italy.

2004: Co-chairman of Italian Conference “*Meccanica Stocastica '04*”, 31 May-1 June, Pantelleria (TP), Italy.

1998: Co-chairman of Italian Conference Nazionale: *Meccanica Stocastica '98*, 1-3 June, Lampedusa(AG), Italy.

1996: Co-chairman of Italian Conference: *La meccanica delle murature tra teoria e progetto*, 18-20 September, Messina, Italy.

1993: Chairman of Italian Conference: *Meccanica Stocastica '93*, 6-8 July 1993, Taormina (ME), Italy.

INVITED LECTURES AND SEMINARS (selection)

2021: “*Seismic Analysis of Structural Systems Subjected to Fully Non-stationary Artificial Accelerograms: Recent Advances*”, COMPDYN 2021, 8th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering M. Papadrakakis, M. Fragiadakis (eds.) Streamed from Athens, Greece, 27–30 June 2021.

2019: Short Course on “*Probabilistic and non-probabilistic approaches for safety assessment of linear structures*” Ph.D. Course, Genova, Italy.

2017: “*Static and dynamic analysis of linear structures with uncertain-but-bounded parameters*” School of Civil and Building Engineering of Loughborough University, U.K.

2014: “*Dynamic analysis of suspended cables crossed by moving oscillators*”, 12-th International Conference on Computational Structures and Technology CST2014, Napoli, Italy.

2014: “*Explicit solutions for the structural analysis of discretized structures with uncertain-but-bounded parameters*”, Department of Engineering, Cambridge U.K.

2012: “*Explicit Solutions for the Static and Dynamic Analysis of Discretized Structures with Uncertain Parameters*” 11-th International Conference CST2012, Dubrovnik, Croatia.

2010: “*Dynamic analysis of suspended cables crossed by moving oscillators*”, 10-th International Conference CST2010, Valencia-Spain.

2008: “*Dynamic analysis of vehicle-bridge interaction using the substructure approach*”, 9-th International Conference CST2008, Athens-Greece.

2006: “*Dynamic analysis of viscoelastically damped structures*”, 8-th International Conference CST2006, Las Palmas de Gran Canaria-Spain.

2004: “*Re-Analysis Techniques in Structural Dynamics*”, 7-th International Conference CST2004, Lisbon, Portugal.

2002: “*Dynamic Analysis of Structural Systems using Component Mode Synthesis*”, 6-th International Conference CST2002, Praga, Czech Republic.

2001: “*Stochastic Dynamics for Structural Engineering Problems - A Review*”, 8-th International Conference on Civil And Structural Engineering Computing, Eisenstadt Austria.

1993: “*Response of linear and non-linear structural systems under Gaussian and non-Gaussian filtered input*” CISM Course (Udine) Dynamic Motion: Chaotic and Stochastic Behaviour.

RESEARCH PROJECTS

2015-2018 MIUR-PRIN “*Identification and diagnostics of complex structural systems*”. Role: Associated Investigator of UNIME.

2009-2010 MIUR-PRIN “*Stochastic and deterministic methods for the dynamic analysis and identification of linear and non-linear structures*” Role: Associated Investigator of UNIME.

2007-2008 MIUR-PRIN PRIN “*Models and methods for the deterministic and stochastic dynamic analysis of structures*”. Role: Associated Investigator of UNIME.

2005-2006 MIUR-PRIN “*Deterministic and probabilistic methods for the analysis and the identification of structures in dynamics*” Role: Associated Investigator of UNIME.

2003-2004 MIUR-PRIN “*Deterministic and probabilistic methods for the analysis, passive control of structures and Structural Safety*” Role: Associated Investigator of UNIME.

2001-2002 MIUR-PRIN “*Dynamic analysis and safety of structures under stochastic excitations*” Role: Associated Investigator of UNIME.

1999-2000 MIUR-PRIN “*Stochastic Dynamics of structures with uncertain parameters under seismic excitations, moving loads, wind and wave motion*” Role: Associated Investigator of UNIME.

1996 MIUR-PRIN “*Seismic analysis of structure with base isolation*” Role: Associated Investigator of UNIME.

1995 MIUR-PRIN “*Seismic analysis of structure with base isolation*” Role: Associated Investigator of UNIME.

1994 MIUR-PRIN “*Innovative technologies for mitigation of vibrations in structural systems*” Role: Associated Investigator of UNIME.

- **MAIN RESEARCH INTERESTS**

- Dynamics of Structures, Seismic Engineering, Stochastic Dynamics, Dynamics of bridges and cables under moving loads, Probabilistic, non-probabilistic and hybrid methods for uncertainty propagation, Structural Reliability, Vehicle-Structure Dynamic Interaction.

- **MAJOR COLLABORATIONS**

Guido Borino, Mario Di Paola and Massimiliano Zingales, University of Palermo (Italy). Salvatore Caddemi and Nicola Impollonia, University of Catania (Italy). Federica Tubino, University of Genova (Italy). Alba Sofi, Mediterranea University, Reggio Calabria (Italy). Pierfrancesco Cacciola, Brighton University (UK). Isaac Elishakoff, Florida Atlantic University (USA). Alessandro Palmeri, Loughborough University (UK). Pol D. Spanos, Rice University, Houston (USA).