

CURRICULUM VITAE

Dr. Alba Sofi

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EDUCATION

- 2004-2005** Fellowship as Research Assistant, University “Mediterranea” of Reggio Calabria, Italy, Faculty of Architecture.
- Sept - Dec 2004** Research activity at “Rice University”, Houston (Texas, USA) as Visiting Scholar under the supervision of Professor Pol Spanos.
- 2002-2004** Post-Doctoral fellowship, University of Messina, Italy, Faculty of Engineering.
- 1999-2002** Ph. D in Structural Engineering at the Department of Structural and Geotechnical Engineering at University of Palermo, Italy, Faculty of Engineering. Thesis title: “Static and Dynamic Analysis of Structures with Geometrical Nonlinearities and Uncertain Parameters”, (Supervisor: Prof. Guido Borino), in English.
- 1998** Master of Science degree in Civil Engineering, “cum laude”, University of Messina, Italy, Faculty of Engineering. Thesis title: “Analisi dinamica non lineare di cavi sospesi”, (Supervisor: Prof. Giuseppe Muscolino), in Italian.

ACADEMIC APPOINTMENTS

- 2017** National Scientific Qualification (art.16 of the law 30 December 2010, n.240) as Full Professor of *Structural Mechanics*.
- 2014 (2012 Session)** National Scientific Qualification (art.16 of the law 30 December 2010, n.240) as Associate Professor of *Structural Mechanics*.

2005 to present Assistant Professor (tenured position) of *Structural Mechanics* at University “Mediterranea” of Reggio Calabria, Italy, Department of Architecture and Territory (dArTe).

2002-2003 Contract as Assistant Professor of *Structural Mechanics* at University “Mediterranea” of Reggio Calabria, Italy, Faculty of Architecture.

2001-2002 Contract as Assistant Professor of *Structural Mechanics* at University “Mediterranea” of Reggio Calabria, Italy, Faculty of Architecture.

VISITING POSITIONS

2016-2019 Appointment as Visiting Fellow in the Department of Engineering Science, University of Oxford, Oxford (UK).

Aug-Nov 2017 Appointment as Visiting Fellow in the School of Civil and Environmental Engineering, Faculty of Engineering, University of New South Wales, Sydney (Australia).

May 2018 Visiting Professor at Guangzhou University-Tamkang University Joint Research Center for Engineering Structure Disaster Prevention and Control, Guangzhou University, Guangzhou (China), May 17-June 3, 2018.

MAIN SERVICES IN ACADEMIC EDUCATION

April 2017 to present Erasmus delegate of the Department of Architecture and Territory.

May 2017 to present Member of the Doctoral School in "Architecture and Territory", University "Mediterranea" of Reggio Calabria.

2006 to present Member of the Doctoral School in “Civil, Environmental and Safety Engineering”, University “Mediterranea” of Reggio Calabria, Italy.

2007-2012 Member of the Scientific Committee of the Library of the Faculty of Architecture, University “Mediterranea” of Reggio Calabria, Italy.

TEACHING ACTIVITIES

A.Y. 2016-2017

to A.Y. 2018-2019 *Structural Mechanics* (120 h, curriculum in Architecture, One Cycle Degree Course, University “Mediterranea” of Reggio Calabria, Italy).

A.Y. 2012-2013

to A.Y. 2014-2015 *Computational Structural Mechanics* (48-60 h, curriculum in Engineering, University “Mediterranea” of Reggio Calabria, Italy).

- A.Y. 2011-2012** *Statics* (80 h, curriculum in Architecture, University “Mediterranea” of Reggio Calabria, Italy, Course B).
- A.Y. 2006-2007**
to A.Y. 2009-2010 *Statics* (80-120 h, curriculum in Architecture, University “Mediterranea” of Reggio Calabria, Italy, Courses B and C).
- A.Y. 2005-2006** *Numerical Modeling* (30 h, Faculty of Architecture, University “Mediterranea” of Reggio Calabria, Italy).
- January 2004** *Stochastic Seismic Dynamics* (4h, Master in *Earthquake Engineering*, University of Messina, Italy).
- A.Y. 2002-2003** *Physical Reality and Structural Models* (25 h, Faculty of Architecture, University “Mediterranea” of Reggio Calabria, Italy).
- A.Y. 2001-2002** *Physical Reality and Structural Models in Structural Mechanics* (25 h, Faculty of Architecture, University “Mediterranea” of Reggio Calabria, Italy).
- A.Y. 2003-2004**
to A.Y. 2010-2011 Supporting activity to the courses of *Statics* and *Structural Mechanics* (curriculum in Architecture, University “Mediterranea” of Reggio Calabria, Italy).
- A.Y. 2011-2012**
to A.Y. 2012-2013 Supporting activity to the course of *Structural Mechanics* (curriculum in Engineering, University “Mediterranea” of Reggio Calabria, Italy).

EDITORIAL ACTIVITIES

- October 2018 to present** Associate Editor of the *International Journal of Fuzzy Computation and Modelling*.
- October 2017 to present** Associate Managing Editor of the *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering*.
- October 2017 to present** Member of the Editorial Board of *Advances in Engineering Software*, Elsevier.
- January 2017 to present** Associate Editor of the *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering; Part B: Mechanical Engineering*.
- August 2016 to present** Member of the Editorial Board of *Mathematical Problems in Engineering*, Hindawi Publishing Corporation.

December 2014 to 2016 Guest Editor of *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering*.

April 2015 to present Member of the Editorial Board of *Shock and Vibration*, Hindawi Publishing Corporation.

November 2015 to present Member of the Editorial Board of the *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering; Part B: Mechanical Engineering*.

Lead Guest Editor of a Special Section on “Non-probabilistic Approaches for Handling Uncertainties in Engineering” of *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B. Mechanical Engineering* co-edited by Professors Isaac Elishakoff and Giuseppe Muscolino (2015).

Lead Guest Editor of a Special Issue on “Non-probabilistic Treatments of Uncertainties: Recent Developments” of *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B. Mechanical Engineering* co-edited by Professors Isaac Elishakoff and Giuseppe Muscolino (2015).

Review Editor of *Computational Methods in Structural Engineering* (since October 2018).

Referee for the following international journals:

Advances in Engineering Software;

AIAA Journal;

ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A. Civil Engineering;
Applied Mathematical Modelling;

Communications in Nonlinear Science and Numerical Simulation;

Composite Structures;

Computer Methods in Applied Mechanics and Engineering;

Computers and Structures;

Engineering Structures;

International Journal for Multiscale Computational Engineering;

International Journal for Numerical Methods in Engineering;

International Journal of Non-Linear Mechanics;

Journal of Applied Mechanics ASME;

Journal of Mechanical Engineering Science;

Journal of Sound and Vibration;

Journal of Vibration and Control;

Meccanica;

Mechanical Systems and Signal Processing;

Nonlinear Dynamics;

Probabilistic Engineering Mechanics;

Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences;

Structural Safety

Thin-Walled Structures

Referee for the following international conferences:

-X International Conference on Structural dynamics (Eurodyn 2017), September 10-13, 2017.

-ASME 2017 International Mechanical Engineering Congress & Exposition (IMECE 2017), November 3-9, 2017, Tampa, (Florida, USA).

Reviewer of book proposals for CRC Press, Taylor & Francis Group.

INVITED SEMINARS

-“Non-Stationary Response of Nonlinear Oscillators Subject to Random Excitations”, Department of Civil Engineering, Rice University, Houston (Texas, USA), November 30, 2004.

-“Analysis of Structures with Uncertain Parameters Modelled as Interval Variables”, Department of Engineering Science in the University of Oxford, February 23, 2015.

-“Finite Element Analysis of Structures with Interval Uncertainties”, University of New South Wales, Sydney (Australia), September 5, 2017.

-“Finite Element Procedures for the Analysis of Structures with Interval Uncertainties”, Department of Engineering Science in the University of Oxford, November 6, 2017.

SCIENTIFIC ASSOCIATIONS

-*Italian Association of Theoretical and Applied Mechanics (AIMETA)*

-*Dynamic and Stability AIMETA group (GADES)*

-*Stochastic Mechanics AIMETA group (GMS)*

-*Interdepartmental Centre of Structural Theoretical and Experimental Dynamics (C.I.Di.S)*

-*The American Society of Mechanical Engineers (ASME)*

-*The American Society of Civil Engineers (ASCE)*

-*EUROMECH*

-*SEI - Structural Engineering Institute.*

ORGANIZATION OF CONFERENCES AND MINI-SYMPOSIA

-Member of the organization committee of the International Conference “Stochastic Mechanics 2012”, June 7-10, 2012 Ustica (Palermo, Italy).

-Mini-symposium “Interval Analysis of Uncertainty”, organized in collaboration with Professors Isaac Elishakoff and Giuseppe Muscolino, 11th International Conference on Structural Safety & Reliability, June 16-20, 2013 Columbia University, New York, NY.

-Mini-symposium “Non-Probabilistic Modelling and Analysis of Uncertainty”, organized in collaboration with Professors Isaac Elishakoff and Giuseppe Muscolino, Second International Conference on Vulnerability and Risk Analysis and Management (ICVRAM2014), July 13-16, 2014, University of Liverpool, UK.

-Mini-symposium “Reliability of Structures under Environmental Loads: Stochastic Analysis and Design”, organized in collaboration with Professors Mario Di Paola and Giuseppe Muscolino, UNCECOMP 2015 1st International Conference on Uncertainty Quantification in Computational Sciences and Engineering, 25 - 27 May, 2015 Crete Island, Greece.

-Topic organizer of the Symposium “Stochastic Optimization, Uncertainty and Probability”; Topic co-organizers: Professors Isaac Elishakoff and Giuseppe Muscolino, ASME 2015 International Mechanical Engineering Congress & Exposition (IMECE 2015), November 13-19, 2015, Houston, (Texas, USA).

-Topic organizer of the Symposium “Stochastic Optimization, Uncertainty and Probability”; Topic co-organizers: Professors Isaac Elishakoff and Giuseppe Muscolino, ASME 2016 International Mechanical Engineering Congress & Exposition (IMECE 2016), November 11-17, 2016, Phoenix, (Arizona, USA).

-Mini-symposium “Non Probabilistic Approaches for Uncertainty Representation and Analysis in Engineering”, organized in collaboration with Professors Davis Moens, Dirk Vandepitte, Michael Hanss, UNCECOMP 2017 2nd International Conference on Uncertainty Quantification in Computational Sciences and Engineering, 15-17 June, 2017 Rhodes Island, Greece.

-Topic organizer of the Symposium “Stochastic Optimization, Uncertainty and Probability”; Topic co-organizers: Professors Isaac Elishakoff and Giuseppe Muscolino, ASME 2017 International Mechanical Engineering Congress & Exposition (IMECE 2017), November 3-9, 2017, Tampa, (Florida, USA).

-Topic organizer of the Symposium “General Topic on Risk, Safety and reliability”; Topic co-organizer: Chimba Mkandawire, ASME 2017 International Mechanical Engineering Congress & Exposition (IMECE 2017), November 3-9, 2017, Tampa, (Florida, USA).

SCIENTIFIC COMMITTEES

-Member of the Committee on Probability and Statistics in the Physical Sciences of the Bernoulli Society (since September 2018).

-Member of the Scientific Committee of UNCECOMP 2019 3rd International Conference on Uncertainty Quantification in Computational Sciences and Engineering, 24-26 June, 2019 Crete Island, Greece.

-Member of the Scientific Committee of the 8th International Conference on Computational Stochastic Mechanics (CSM8), Paros, Greece, June 10-13, 2018.

-Member of the Editorial Board of the Tenth International Conference on Engineering Computational Technology (ECT2018), Sitges, Barcelona, Spain, 4-6 September 2018.

-Member of the Scientific Committee of the 8th International Workshop on Reliable Engineering Computing, Computing with Confidence (REC2018), University of Liverpool, Liverpool, UK, June 16-18, 2018.

-Member of the Scientific Committee of Stochastic Mechanics (SM2016), Capri, Italy, June 12-15, 2016.

-Member of the Scientific Committee of the 7th International Workshop on Reliable Engineering Computing, Computing with Polymorphic Uncertain Data (REC2016), Ruhr University, Bochum, Germany, June 15-17, 2016.

-Member of the Scientific Committee of the 7th International Conference on Computational Stochastic Mechanics (CSM7), Santorini, Greece, June 15-18, 2014.

RESEARCH PROJECTS

-PRIN 2003: Models and Phenomena in the Dynamics of Complex Structural Systems: analysis, experimentation and control. Principal Investigator: Prof. Fabrizio Vestroni. Duration: 24 months. Role: participant.

-PRIN 2003: Non-destructive methods for the identification and diagnosis of materials and structures. Principal Investigator: Prof. Antonino Morassi. Duration: 24 months. Role: participant.

-PRIN 2004: Monitoring and control of monumental heritage: an approach based on low-cost distributed technologies. Principal Investigator: Prof. Alessandro De Stefano. Duration: 24 months. Role: participant.

-PRIN 2010-2011: Dynamic, stability and control of flexible structures. Principal Investigator: Prof. Angelo Luongo. Duration: 36 months. Role: participant.

-PON01_01869: Technologies and Innovative Materials for territory protection and environmental safeguard (Safeguard theme) - Implementing entity: MECMAT, University "Mediterranea" of Reggio Calabria, 2011. Role: participant.

-Internal funding RdB (basic research) 2008, 2009 e 2010. Role: Principal Investigator.

SUPERVISION ACTIVITY

Supervisor of the Ph.D student Eugenia Romeo, XXX cycle, Doctoral School in "Civil, Environmental and Safety Engineering", University "Mediterranea" of Reggio Calabria, Italy . Title of the Ph.D Thesis: "Finite element procedures for the analysis of structural systems with interval uncertainties".

RESEARCH INTERESTS

Propagation of random uncertainties:

- Nonlinear stochastic finite elements;
- Suspended cables with uncertain pretension;
- Linear stochastic structures excited by non-stationary random processes;
- Exact solutions for beams with random flexibility under deterministic static loads.

Propagation of interval uncertainties:

- Static analysis of linear structures with interval parameters;
- Frequency and time domain dynamic analysis of linear structures with interval parameters;
- Stochastic analysis of linear structures with interval parameters under stationary random excitation;
- Interval field model to describe spatially varying interval uncertainties;
- Response variability of Euler-Bernoulli beams, Timoshenko beams and non-local elastic bars with interval Young's modulus;
- Interval finite element analysis of structures with spatially varying uncertainties modelled as interval fields;
- Interval finite element analysis of composite laminates with uncertain material properties modelled as interval fields.

Structural reliability analysis:

- Reliability of structural systems with interval parameters under stationary random excitation;
- Interval reliability sensitivity analysis.

Nonlinear stochastic dynamics:

- Approximate solution of the Fokker-Planck-Kolmogorov equation;
- Linear and nonlinear systems under sub-Gaussian random processes;
- Non-stationary response of lightly damped nonlinear systems under Gaussian white noise;
- Step-by-step integration techniques for nonlinear systems;
- Wind-excited suspended cables.

Vehicle-structure dynamic interaction:

- Simply supported and suspension bridges under running trains;
- Euler-Bernoulli beams crossed by moving oscillators;
- Suspended cables under moving masses or moving oscillators.

Non-local elasticity theory:

- Non-local 2D finite elements;
- Non-local Timoshenko beam theory;
- Analysis of non-local 1D solids with uncertain material properties.

SCIENTIFIC PUBLICATIONS

International Journals

1. Feng J, Li Q, Sofi A, Li G, Wu D, Gao W, Uncertain structural free vibration analysis with non-probabilistic spatially varying parameters, *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering*. ISSN: 2332-9017 (in press).
2. Sofi A, Romeo E, Barrera O, Cocks A, An interval finite element method for the analysis of structures with spatially varying uncertainties, *Advances in Engineering Software*, 128, 2019, 1–19, ISSN: 0965-9978.
3. Muscolino G, Sofi A, Giunta F, Dynamics of structures with uncertain-but-bounded parameters via pseudo-static sensitivity analysis, *Mechanical Systems and Signal Processing*, 111, 2018, 1–22, ISSN: 0888-3270.
4. Sofi A, Romeo E, A unified response surface framework for the interval and stochastic finite element analysis of structures with uncertain parameters, *Probabilistic Engineering Mechanics*, 54, 2018, 25-36. ISSN: 0266-8920.
5. Sofi A, Euler-Bernoulli interval finite element with spatially varying uncertain properties, *Acta Mechanica*, 228, 2017, 3771–3787, ISSN: 1619-6937.
6. Muscolino G., Sofi A, Analysis of structures with random axial stiffness described by imprecise probability density functions, *Computers & Structures*, 184, 2017, pp. 1-13, ISSN: 0045-7949.
7. Sofi A, Romeo E, A novel interval finite element method based on the improved interval analysis, *Computer Methods in Applied Mechanics and Engineering*, 311, 2016, pp. 671–697. ISSN: 0045-7825.
8. Muscolino G, Santoro R, Sofi A, Reliability assessment of structural systems with interval uncertainties under spectrum-compatible seismic excitations, *Probabilistic Engineering Mechanics*, 44, 2016, pp. 138–149. ISSN: 0266-8920.
9. Muscolino G, Santoro R, Sofi A, Reliability analysis of structures with interval uncertainties under stationary stochastic excitations, *Computer Methods in Applied Mechanics and Engineering*, 300, 2016, pp. 47–69. ISSN: 0045-7825.
10. Sofi A, Structural response variability under spatially dependent uncertainty: stochastic versus interval model, *Probabilistic Engineering Mechanics*, 48, 2015, pp. 78-86. ISSN: 0266-8920.
11. Sofi A, Muscolino G, Elishakoff I, Static response bounds of Timoshenko beams with spatially varying interval uncertainties, *Acta Mechanica*, 226, (11), 2015, pp 3737-3748. ISSN: 1619-6937.
12. Muscolino G, Santoro R, Sofi A, Interval Fractile Levels for Stationary Stochastic Response of Linear Structures with Uncertainties, *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering*, Vol. 2, 011004-1. ISSN: 2332-9017.

- 13.** Sofi A, Muscolino G, Static analysis of Euler-Bernoulli beams with interval Young's modulus, *Computers & Structures*, 156, 2015, pp. 72-82, ISSN: 0045-7949.
- 14.** Sofi A, Muscolino G, Elishakoff I, Natural frequencies of structures with interval parameters, *Journal of Sound and Vibration*, 347, 2015, pp. 79–95, ISSN: 0022-460X.
- 15.** Failla G, Sofi A, Zingales M, A new displacement-based framework for non-local Timoshenko beams, *Meccanica*, 50 (8), 2015, pp. 2103-2122, ISSN: 0025-6455.
- 16.** Muscolino G, Santoro R, Sofi A, Explicit reliability sensitivities of linear structures with interval uncertainties under stationary stochastic excitation, *Structural Safety*, 52, 2015, pp. 219-232, ISSN: 01674730.
- 17.** Muscolino G, Santoro R, Sofi A, Explicit frequency response functions of discretized structures with uncertain parameters, *Computers & Structures*, 133, 2014, pp. 64-78, ISSN: 0045-7949.
- 18.** Muscolino G, Santoro R, Sofi A, Explicit sensitivities of the response of discretized structures under stationary random processes, *Probabilistic Engineering Mechanics*, 35, 2014, pp. 82-95, ISSN: 0266-8920.
- 19.** Muscolino G, Sofi A., Zingales M, One-dimensional heterogeneous solids with uncertain elastic modulus in presence of long-range interactions: interval versus stochastic analysis, *Computers & Structures*, 122, 2013, pp. 217-229, ISSN: 0045-7949.
- 20.** Di Paola M, Failla G, Pirrotta A, Sofi A., Zingales M, The mechanically based non-local elasticity: An overview of main results and future challenges, *Philosophical Transactions of the Royal Society A*, 371 (1993) 2013, pp. 1-16, ISSN:1364503X.
- 21.** Sofi A, Nonlinear in-plane vibrations of inclined cables carrying moving oscillators, *Journal of Sound and Vibration*, 332(7), 2013, pp. 1712–1724, ISSN: 0022-460X.
- 22.** Muscolino G, Sofi A, Bounds for the stationary stochastic response of truss structures with uncertain-but-bounded parameters, *Mechanical Systems and Signal Processing*, 37(1-2), 2013, pp. 163-181, ISSN: 0888-3270.
- 23.** Di Paola M, Failla G, Sofi A, Zingales M, On the vibrations of a mechanically based non-local beam model, *Computational Materials Science*, 64, 2012, pp. 278-282, ISSN: 0927-0256.
- 24.** Muscolino G, Sofi A, Stochastic analysis of structures with uncertain-but-bounded parameters via improved interval analysis, *Probabilistic Engineering Mechanics*, 28, 2012, pp. 152-163, ISSN: 0266-8920.
- 25.** Di Paola M, Failla G, Sofi A, Zingales M, A mechanically based approach to non-local beam theories, *International Journal of Mechanical Sciences*, 53, 2011, pp. 676-687, ISSN: 0020-7403.

26. Muscolino G, Sofi A, Response statistics of linear structures with uncertain-but-bounded parameters under Gaussian stochastic input, *International Journal of Structural Stability & Dynamics*, 11, 2011, pp. 775-804, ISSN: 0219-4554.
27. Di Paola M, Sofi A, Zingales M, Stochastic analysis of one-dimensional heterogeneous solids with long-range interactions, *International Journal for Multiscale Computational Engineering*, 9, 2011, pp. 379-394, ISSN: 1543-1649.
28. Pisano A A, Sofi A, Fuschi P, Nonlocal integral elasticity: 2D finite element based solutions, *International Journal of Solids and Structures*, 46, 2009, pp. 3836-3849, ISSN: 0020-7683.
29. Pisano A A, Sofi A, Fuschi P, Finite element solutions for nonhomogeneous nonlocal elastic problems, *Mechanics Research Communications*, 36, 2009, pp. 755-761, ISSN: 0093-6413.
30. Muscolino G, Palmeri A, Sofi A, Absolute versus relative formulations of the moving oscillator problem, *International Journal of Solids and Structures*, 46, 2009, pp. 1085-1094, ISSN: 0020-7683.
31. Sofi A, Muscolino G, Dynamic analysis of suspended cables carrying moving oscillators, *International Journal of Solids and Structures*, 44, 2007, pp. 6725-6743, ISSN: 0020-7683.
32. Spanos P D, Sofi A, Di Paola M, Nonstationary Response Envelope Probability Densities of Nonlinear Oscillators, *Journal of Applied Mechanics*, 74, 2007, pp. 315-324, ISSN: 0021-8936.
33. Spanos P D, Sofi A, Wang J, Peng B, A Method for Fatigue Analysis of Piping Systems on Topsides of FPSO Structures, *Journal of Offshore Mechanics and Arctic Engineering-Transactions of the ASME*, 128, 2006, pp. 162-168, ISSN: 0892-7219.
34. Biondi B, Muscolino G, Sofi A, A substructure approach for the dynamic analysis of train-track-bridge system, *Computers & Structures*, 83, 2005, pp. 2271-2281, ISSN: 0045-7949.
35. Di Paola M, Muscolino G, Sofi A, Monte Carlo simulation for the response analysis of long-span suspended cables under wind loads, *Wind and Structures*, 7, 2004, pp. 107-130, ISSN: 1226-6116.
36. Impollonia N, Sofi A, A response surface approach for the static analysis of stochastic structures with geometrical nonlinearities, *Computer Methods in Applied Mechanics and Engineering*, 192, 2003, pp. 4109-4129, ISSN: 0045-7825.
37. Di Paola M, Sofi A, Approximate solution of the Fokker-Planck-Kolmogorov equation, *Probabilistic Engineering Mechanics*, 17, 2002, pp. 369-384, ISSN: 0266-8920.
38. Sofi A, Borino G, Muscolino G, Dynamic analysis of prestressed cables with uncertain pretension, *Meccanica*, 37, 2002, pp. 67-84, ISSN: 0025-6455.

Chapter in Books

1. Muscolino G, Sofi A, Response variability bounds of elastic beams with uncertain parameters. In: *Computational Methods for Engineering Technology*, Saxe-Coburg Publications, Stirlingshire (GBR), Chapter 9, 2014, pp. 223-253.
2. Muscolino G, Sofi A, Explicit Solutions for the Static and Dynamic Analysis of Discretized Structures with Uncertain Parameters. In: *Computational Methods for Engineering Science*, Saxe-Coburg Publications, Stirlingshire (GBR), Vol. 30, 2012, pp. 47-73, ISBN: 978-1-874672-58-6.
3. Muscolino G, Sofi A, Dynamics of Suspended Cables Crossed by Moving Oscillators. In: *Developments and Applications in Computational Structures Technology*, Saxe-Coburg Publications, Stirlingshire (GBR), Vol. 25, 2010, pp. 221-244, ISBN: 978-1-874672-47-0.
4. Muscolino G, Sofi A, Dynamic analysis of vehicle-bridge interaction using the substructure approach. In: *Trends in Computational Structures Technology*, Saxe-Coburg Publications, Stirlingshire (GBR), Vol. 19, 2008, pp. 125-149, ISBN: 978-1-874672-39-5.

Guest Editorials

1. Sofi, A, Muscolino, G, and Elishakoff, I. (2015). Special Section on Nonprobabilistic Approaches for Handling Uncertainty in Engineering, *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering*, 1(3), 030201.
2. Sofi, A, Muscolino, G, and Elishakoff, I (2015). Special Issue on Nonprobabilistic Treatments of Uncertainty: Recent Developments, *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering*, 1(4), 040301.

National Journals

1. Romeo E., Sofi A, Interval versus stochastic finite element analysis of structures with uncertain parameters, *Meccanica dei materiali e delle strutture*, Vol. 6, n. 1, 2016, pp. 139-146, ISSN: 2035-679X.
2. Muscolino G, Santoro R, Sofi A, Explicit expressions of response sensitivities for structural systems subjected to stationary random processes, *Meccanica dei materiali e delle strutture*, Vol. 3, n. 1, 2012, pp. 1-8, ISSN: 2035-679X.
3. Di Paola M, Sofi A, Linear and non-linear systems under sub-Gaussian (alpha-stable) input, *Meccanica dei materiali e delle strutture*, n. 1, 2009, pp. 55-75, ISSN: 2035-679X.

International Conferences

1. Giunta F, Muscolino G, Sofi A, A sensitivity-based approach for the dynamic analysis of structures with uncertain-but-bounded parameters, Proceedings of the 7th edition of the International Conference on Uncertainty in Structural Dynamics (USD 2018), Eds. W. Desmet, B. Pluymers, D. Moens, W. Rottiers, 17-19 September 2018, Leuven (Belgium).
2. Giunta F, Muscolino G, Sofi A, Fatigue analysis of wind excited structures with structural parameters affected by uncertainties described by interval variables, Proceedings of the 7th edition of the International Conference on Uncertainty in Structural Dynamics (USD 2018), Eds. W. Desmet, B. Pluymers, D. Moens, W. Rottiers, 17-19 September 2018, Leuven (Belgium).
3. Muscolino G, Giunta F, Sofi A, Elishakoff I, Dynamic analysis of Bernoulli-Euler beams with interval uncertainties under moving loads, *Procedia Engineering*, 199, 2017, X International Conference on Structural Dynamics, EUROLYN 2017, pp. 2591-2596.
4. Giunta F, Muscolino G, Sofi A, Interval dynamic response of discretized structures with uncertain-but-bounded parameters, *Eccomas Procedia*, UNCECOMP 2017, 2nd International Conference on Uncertainty Quantification in Computational Sciences and Engineering, Eds. M.Papadrakakis, V.Papadopoulos, G.Stefanou, Rhodes Island; Greece; 15-17 June 2017, pp. 289-299.
5. Barrera O, Romeo E, Sofi A, Interval finite elements with spatially varying uncertainties, Safety, Reliability, Risk, Resilience and Sustainability of Structures and Infrastructure, 12th Int. Conf. on Structural Safety and Reliability, Vienna, Austria, 6–10 August 2017, Christian Bucher, Bruce R. Ellingwood, Dan M. Frangopol (Editors) 2017 TU-Verlag Vienna, ISBN 978-3-903024-28-1.
6. Sofi A, Romeo E., A new interval finite element method: computational issues. In: Proceedings of the 7th International Workshop on Reliable Engineering Computing (REC2016), Eds. Steffen Freitag, Rafi L. Muhanna, Robert L. Mullen, June 15-17, 2016, Ruhr University Bochum, Germany, pp. 131-142.
7. Muscolino G, Santoro R, Sofi A, Reliability assessment of interval uncertain structural systems subjected to spectrum compatible seismic excitations. In: Proceedings of the UNCECOMP 2015, 1st International Conference on Uncertainty Quantification in Computational Sciences and Engineering, M. Papadrakakis, V. Papadopoulos, G. Stefanou (eds.), Crete Island, Greece, 25–27 May 2015.
8. Muscolino G., Santoro R., Sofi A. Interval Uncertain Structural Systems Subjected to Stationary Stochastic Excitations: Reliability Assessment. In: (a cura di): G. Deodatis and P.D. Spanos, Proceedings of the 7th International Conference on Computational Stochastic Mechanics (CSM 7) . Singapore: Research Publishing Services, ISBN: 978-981-09-5347-8, Santorini, Greece, June 15-18th, 2014, doi: 10.3850/978-981-09-5348-5_044.
9. Sofi A (2015). Modeling of spatially varying structural uncertainties. In: (a cura di): G. Deodatis and P.D. Spanos, Proceedings of the 7th International Conference on Computational Stochastic

Mechanics (CSM 7). Singapore:Research Publishing Services, ISBN: 978-981-09-5347-8, Santorini, Greece, June 15-18th, 2014, doi: 10.3850/978-981-09-5348-5_061.

10. Alderucci T, Muscolino G, Sofi A, Response of structures with uncertain-but-bounded parameters subjected to dynamic actions. In: Proceedings of the Twelfth International Conference on Computational Structures Technology, Naples, Italy, 2-5 September 2014, B.H.V. Topping and P. Iványi, (Editors), Civil-Comp Press, Stirlingshire, Scotland.

11. Sofi A, Muscolino G, Elishakoff I, Static Analysis of Timoshenko Beams with Interval Young's Modulus. In: *Vulnerability, Uncertainty, and Risk*, Proceedings of the Second International Conference on Vulnerability and Risk Analysis and Management (ICVRAM) and the Sixth International Symposium on Uncertainty, Modeling, and Analysis (ISUMA), 16th-13th July 2014, University of Liverpool, UK, pp. 2217-2226.

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PhD Thesis

Sofi A, *Static and Dynamic Analysis of Structures with Geometrical Nonlinearities and Uncertain Parameters*, University of Palermo, Palermo (Italy) 2001.

PARTECIPATION TO NATIONAL AND INTERNATIONAL CONFERENCES AND MEETINGS

-Euromech 413 Colloquium on: “Stochastic Dynamics of Nonlinear Mechanical Systems”, Palermo (Italy) June 12-14, 2000 (Speaker).

-Fourth International Symposium on Cable Dynamics, Montréal (Canada) May 28-30, 2001 (Poster Presentation).

-Fendis, Scientific Meeting at University of Roma “La Sapienza”, Roma (Italy) July 9-11, 2001 (Speaker).

-XV Conference- The Italian Association of Theoretical and Applied Mechanics, Taormina (Italy) September, 26-29, 2001.

-Fourth International Conference on Computational Stochastic Mechanics (CSM4), Kerkyra (Corfu), Greece, June 9-12, 2002 (Speaker).

-Eurodyn 2002, Fifth European Conference on Structural Dynamics, Munich (Germany) September 2-5, 2002 (Speaker).

-XVI Conference- The Italian Association of Theoretical and Applied Mechanics, Ferrara (Italy) September 9-12, 2003 (Speaker).

-Ninth International Conference on Civil and Structural Engineering Computing, Egmond-aan-Zee (The Netherlands) September 2-4, 2003 (Speaker).

-Stochastic Mechanics '04, National Conference of the AIMETA of Stochastic Mechanics and Structural Reliability, Pantelleria (Italy) May 31-June 1, 2004 (Speaker).

-Fifth International Conference on Computational Stochastic Mechanics (CSM5), Rhodes (Greece), June 21-23, 2006 (Speaker).

-International Symposium on Recent Advances in Mechanics, Dynamical Systems and Probability Theory (MDP), Palermo (Italy), June 3-6, 2007 (Speaker).

-XVIII Conference- The Italian Association of Theoretical and Applied Mechanics, Brescia (Italy) September 11-14, 2007.

-XVII Italian Conference of Computational Mechanics (GIMC 2008), Alghero (Italy), September 10-12, 2008 (Speaker).

- XIX Conference- The Italian Association of Theoretical and Applied Mechanics, Ancona (Italy) September 14-17, 2009 (Speaker).
- Eurodyn 2011, Eighth International Conference on Structural Dynamics, Leuven (Belgium) July 4-6, 2011 (Speaker).
- XX Conference- The Italian Association of Theoretical and Applied Mechanics, Bologna (Italy) September 12-15, 2011 (Speaker).
- Stochastic Mechanics 2012, Ustica (Palermo, Italy) June 7-10, 2012.
- GADeS 2012, First meeting of GADES, AIMETA Group of Dynamics and Stability, October 19, 2012, University of Roma, "La Sapienza", Rome (Italy) (Speaker).
- 11th International Conference on Structural Safety & Reliability (ICOSSAR 2013), June, 16-20, 2013 Columbia University, New York, NY (Speaker, Mini-symposium organizer and Chairman of a session).
- Second International Conference on Vulnerability and Risk Analysis and Management & Sixth International Symposium on Uncertainty Modelling and Analysis (ASCE-ICVRAM-ISUMA 2014)", July 13-16, 2014, University of Liverpool (UK) (Speaker, Mini-symposium organizer and Chairman of a session).
- 2014 International Conference on Fractional Differentiation and its Applications, (ICFDA'14)", June 23-25, 2014, University of Catania, (Italy) (Speaker).
- 7th Computational Stochastic Mechanics Conference (CSM7)", June 15-18, 2014 Santorini (Greece) (Speaker).
- 1st International Conference on Uncertainty Quantification in Computational Sciences and Engineering (UNCECOMP 2015), 25 - 27 May 2015, Crete Island, Greece (Speaker, Mini-symposium organizer and Chairman of a session).
- XXII Conference - The Italian Association of Theoretical and Applied Mechanics (AIMETA 2015), September 14-17, 2015, Genoa (Italy) (Speaker).
- 7th International Workshop on Reliable Computing (REC 2016), Computing with Polymorphic Uncertain Data, June 15-17, 2016| Ruhr University, Bochum, Germany (Speaker and Chairman of a session).
- 2nd International Conference on Uncertainty Quantification in Computational Sciences and Engineering (UNCECOMP 2017), 15 - 17 June 2017, Rhodes Island, Greece (Speaker and Mini-symposium organizer).
- 12th International Conference on Structural Safety and Reliability" (ICOSSAR 2017), 6-10 August, Vienna (Austria), (Speaker and Chairman of a session).

-Workshop on Recent Advances in Mechanics (structural/solid) Dynamical Systems (deterministic/stochastic) Probability Theory (mathematical/applied), 5-6 March 2018, Palermo (Italy).

- The Tenth International Conference on Engineering Computational Technology” (ECT 2018), 4-6 September 2018, Sitges (Spain) (Speaker, Session organizer and Chairman of a session).

-The 7th edition of the International Conference on Uncertainty in Structural Dynamics” (USD 2018), 17-19 September 2018, Leuven (Belgium) (Speaker).

Reggio Calabria, lì 22/01/2019

Alba Sofi

