

Curriculum Vitae

INFORMAZIONI PERSONALI

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AMBITI DI RICERCA

ALBERTO DI MATTEO

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EDUCATION

03/2016 PhD in Civil and Environmental Engineering, Department of Civil, Environmental, Aerospace, and Materials Engineering, University of Palermo, Italy (PhD Supervisor: Prof. A. Pirrotta).

04/2012 MS in Civil Engineering (110/110 cum laude), University of Palermo, Italy.

03/2010 BS in Civil Engineering (110/110 cum laude), University of Palermo, Italy.

CURRENT POSITION

12/2021 – present Assistant Professor, Department of Engineering, University of Palermo, Italy.

PREVIOUS POSITIONS

07/2019 – 12/2021 Research Fellow, Department of Engineering, University of Palermo, Italy.

07/2016 – 07/2019 Post-Doctoral Fellow, Department of Engineering, University of Palermo, Italy.

04/2016 – 06/2016 Post-Doctoral Fellow, Department of Engineering Science, Unit of Applied Mechanics, University of Innsbruck, Austria.

VISITING APPOINTMENTS (in the last six years)

05/2024 Department of Civil Engineering and Engineering Mechanics, Columbia University, New York, USA.

05/2024 Department of Civil and Environmental Engineering, Rice University, Houston,
USA.

09/2022 – 02/2023 Department of Civil and Environmental Engineering, Rice University, Houston, USA (Founded by Fulbright Research Scholar Award).

07/2021 Institute of Engineering Mechanics, Karlsruhe Institute of Technology, Karlsruhe, Germany.

06/2020 – 09/2020 Department of Engineering Science, Unit of Applied Mechanics, University of Innsbruck, Austria.

02/2020 – 05/2020 Department of Civil and Environmental Engineering, Rice University, Houston, USA.

04/2016 – 06/2016 Department of Engineering Science, Unit of Applied Mechanics, University of Innsbruck, Austria.

HONORS AND AWARDS

06/2022 Fulbright Research Scholarship, awarded by the U.S.-Italy Fulbright Commission.

05/2021 Selection in the Editor's Choice section of the Journal of Engineering Mechanics (ASCE), of the paper "Pirrotta et al., Deterministic and Random Vibration of Linear Systems with Singular Parameter Matrices and Fractional Derivative Terms, 2021, Journal of Engineering Mechanics, 147, 04021031".

12/2020 Best Paper Award (prize 1000 €), for the manuscript "Di Matteo et al. (2019) Mechanical Systems and Signal Processing, 134, 106337", Department of Engineering, University of Palermo, Italy.

02/2020 Winner of the selection as Early Career Editorial Board (ECEB) Member for the ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering.

09/2018 2018 GADeS Award for the best PhD Thesis on the topics of Dynamics and Stability, granted by the Group of Dynamics and Stability (GADeS) of the Italian Association of Theoretical and Applied Mechanics (AIMETA).

04/2018 Italian National Scientific Qualification (Abilitazione Scientifica Nazionale) for the role of Associate Professor in Structural Mechanics by the Italian Ministry of Education University and Research.

07/2014 Winner of the scholarship for the participation to the "Second International Conference on Vulnerability and Risk Analysis and Management - ASCE ICVRAM 2014", Liverpool (UK), based on the selected paper "Di Matteo et al., (2014) A Wiener Path Integral technique for non-stationary response determination on nonlinear oscillators with fractional derivatives elements"

06/2014 Finalist for the "Grunwald-Letnikov Awards: Best Student Papers (theory)" at the "International Conference on Fractional Differentiation and its Applications - ICFDA14", Catania, Italy.

ORGANIZATION OF SCIENTIFIC MEETINGS

05/2024 Co-Organizer, Mini-Symposium "New trends in vibration control and energy harvesting: Modeling and

analysis of innovative materials and structures at micro- and macro-scale" in the "Engineering Mechanics Institute – EMI 2024", Chicago, USA.

04/2024 Co-Organizer, Mini-Symposium "Advancements in Stochastic Dynamics for Design and Assessment of Resilient and Sustainable Engineering Structures" in the "4th International Conference on Vulnerability and Risk Analysis and Management (ICVRAM2024)", Shanghai, China.

08/2023 Member of the Organizing Committee, "Engineering Mechanics Institute – EMI 2023 International Conference", Palermo, Italy.

08/2023 Co-Organizer, Mini-Symposium "Structural Monitoring and Identification of Complex Dynamical Systems" in the "Engineering Mechanics Institute – EMI 2023 International Conference", Palermo, Italy.

09/2022 Member of the Organizing Committee, "XXV Conference of the Italian Association of Theoretical and Applied Mechanics - AIMETA 2022", Palermo, Italy.

06/2022 Co-Organizer, Mini-Symposium "Numerical methods for stochastic mechanics and dynamical systems" in the "International Conference on Nonlinear Solid Mechanics - ICoNSoM 2022", Alghero, Italy.

09/2019 Co-Organizer, Mini-Symposium "Stochastic Mechanics and Probability in Engineering" in the "XXIV Conference of the Italian Association of Theoretical and Applied Mechanics - AIMETA 2019", Rome, Italy.

06/2019 Co-Organizer, Mini-Symposium "Numerical methods for stochastic mechanics and dynamical systems" in the "International Conference on Nonlinear Solid Mechanics - ICoNSoM 2019", Rome, Italy.

03/2018 Member of the Organizing Committee, "II Workshop on Recent Advances in Mechanics, Dynamics and Probability Theory – MDP2018", Palermo, Italy.

06/2016 Member of the Organizing Committee, "International Conference of Stochastic Mechanics – SM16", Capri, Italy.

06/2012 Member of the Organizing Committee, "International Conference of Stochastic Mechanics – SM12", Ustica, Italy.

PRESENTATION IN CONFERENCES

05/2024 "Engineering Mechanics Institute – EMI 2024", Chicago, USA, 28-31 May (Chair in a session).

04/2024 "4th International Conference on Vulnerability and Risk Analysis and Management (ICVRAM2024)", Shanghai, China, 25-27 May (Chair in a session).

07/2023 "Twelfth International Conference on Structural Dynamics - EURODYN 2023", Delft, Netherlands, 2-5 July 2023.

08/2023 "Engineering Mechanics Institute – EMI 2023 International Conference", Palermo, Italy, 27-30 August (Chair in a session).

06/2023 "Third International Nonlinear Dynamics Conference – NODYCON 2013", Rome, Italy, 18-22 June 2023.

09/2022, Italy, "XXIV Conference of the Italian Association of Theoretical and Applied Mechanics, AIMETA 2022", Palermo, Italy, 15-19 September 2022.

07/2022 "7th European Conference on Structural Control – EACS 2022", Warsaw, Poland, 10-13 July 2022.

06/2022 "International Conference on Nonlinear Solid Mechanics – ICoNSoM 2022", Alghero, Italy, 13-16 June 2022 (Chair in a session).

12/2021 "16th International Conference Dynamical Systems Theory and Applications", Online, 06-09 December 2021.

07/2021 Workshop "Innovative Mechanical Metamaterials", Cetara, Italy, 8 July 2021 (Invited Speaker);

09/2019 "XXIV Conference of the Italian Association of Theoretical and Applied Mechanics, AIMETA 2019", Rome, Italy, 15-19 September 2019 (Chair in a session).

06/2019 "International Conference on Nonlinear Solid Mechanics – ICoNSoM 2019", Rome, Italy, 16-19 June 2019 (Chair in a session).

02/2019 "First International Nonlinear Dynamics Conference – NODYCON 2019", Rome, Italy, 17-20 February 2019.

09/2018 "2018 GADeS Workshop", Cagliari, Italy, 20-21 September 2018 (Invited Speaker).

07/2018 "Tenth European Structural Mechanics Conference – ESMC2018", Bologna, Italy, 2-6 July 2018 (Chair in a session).

06/2018 "Eight Conference on Computational Stochastic Mechanics – CSM8", Paros, Greece, 10-13 June 2018.

03/2018 "2° Workshop on Recent Advances in Mechanics, Dynamics and Probability Theory – MDP2018", Palermo, Italy, 5-7 March 2018.

09/2017 "Tenth International Conference on Structural Dynamics - EURODYN 2017", Rome, Italy, 10-13 September 2017.

09/2017 "XXIII Conference of the Italian Association of Theoretical and Applied Mechanics, AIMETA 2017", Salerno, Italy, 4-7 September 2017.

08/2017 "Twelfth International Conference on Structural Safety & Reliability - ICOSSAR 2017", Wien, Austria, 6-10 August 2017 (Chair in a session).

06/2016 "SM16, International Conference of Stochastic Mechanics", Capri, Italy, 12-15 June 2016.

09/2015 "XXII Conference of the Italian Association of Theoretical and Applied Mechanics, AIMETA 2015", Genova, Italy, 14-17 September 2015.

05/2015 "Euromech Colloquium-Stability and control of nonlinear vibrating systems", Sperlonga, Italy, 24-28 May 2015.

07/2014 "Second International Conference on Vulnerability and Risk Analysis and Management - ASCE ICVRAM 2014", Liverpool, UK, 13-16 July 2014.

06/2014 "International Conference on Fractional Differentiation and its Applications - ICFDA14", Catania, Italy, 23-25 June 2014.

EDITORIAL BOARD MEMBERSHIP

02/2022 – present Member of the Editorial Board, "ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering", ASME

02/2022 – present Member of the Editorial Board, "ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering", ASCE.

08/2022 – present Associate Editor for Earthquake Engineering, "Frontiers in Built Environment", Frontiers Publishing.

11/2020 – present Member of the Editorial Board as Topic Editor, "Applied Sciences", MDPI (ISSN 2076-3417).

01/2020 –02/2022 Early Career Editorial Board Member of "ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering", ASME

02/2019 – present Member of the Review Board, "Entropy", MDPI (ISSN 1099-4300).

SUPERVISION OF STUDENTS AND POSTDOCTORAL FELLOWS

2021 – present Supervisor of 2 Post-Doctoral Fellows, Department of Engineering, University of Palermo, Italy.

2019 – present Co-Supervisor of 1 PhD Student, Department of Civil and Environmental Engineering, Rice University, USA.

2019 – present Co-Supervisor of 4 PhD Students, Department of Engineering, University of Palermo, Italy.

2014 – present Co-Supervisor of 20 Graduate Students, Department of Engineering, University of Palermo, Italy.

TEACHING ACTIVITIES (Selection)

2018 – present Lecturer - “Mechanics of Solids and Structures” (9 ECTS Credits), BS in Electrical Engineering, University of Palermo, Italy.

2017 – present Lecturer - “Experimental Dynamics and Monitoring” (6 ECTS Credits), MS in Building Engineering, University of Palermo, Italy.

10/2022 Guest Lecturer for “Applied Monte Carlo Analysis”, Rice University, Houston, USA

09/2018 Invited Lecturer - International PhD Summer School “New horizons in sustainable transport infrastructure engineering-Research and education”, SMARTI European Training Network (Horizon 2020 - Marie Curie-Skłodowska actions), Palermo, Italy.

06/2017 Lecturer - “Elements of MATLAB” (3 ECTS Credits), PhD Program in Civil, Environmental and Material Engineering, University of Palermo, Italy.

04/2016 Teaching assistant - “Mechanics and Mechanical Engineering” (Lecturer: Prof. C. Adam), University of Innsbruck, Austria.

ADDITIONAL ACCADEMIC OR SCIENTIFIC ACTIVITIES

2021 – present Member of the 2020 and 2021 “Best Paper Award Committee” of the “ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering”.

05/2022 – present Member of the Scientific Board, National Ph.D. program “Defense against natural risks and ecological transition of built environment”, University of Catania, Italy.

08/2022 Member of the Ph.D Committee, Rice University, Houston, USA.

11/2020 – present Member of the Scientific Board, PhD Course “Engineering of Structures and Infrastructures”, Department of Engineering, University of Palermo, Italy.

10/2019 – 12/2020 Reviewer for the recruiting process, Horizon 2020 - Marie Curie-Skłodowska actions doctoral program “Dynamics of Complex Continua”, University of Innsbruck, Austria.

2014 – present Reviewer for over 20 leading International Journals, including: *Scientific Reports*, *Nonlinear Dynamics*, *Mechanical System and Signal Processing*, *Journal of Sound and Vibration*, *ASCE Journal of Engineering Mechanics*, *International Journal of Non-Linear Mechanics*, *Probabilistic Engineering Mechanics*, *Computers and Structures*, *Applied Mathematical Modelling*, *Engineering Structures*.

PROFESSIONAL MEMBERSHIPS

2021 – present Società Italiana di Scienza delle Costruzioni (SISCo)

2019 – present American Society of Civil Engineering (ASCE)

2019 – present Engineering Mechanics Institute (EMI)

2015 – present European Mechanics Society (EUROMECH)

2015 – present Italian Association of Theoretical and Applied Mechanics (AIMETA)

GRANTS AND PROJECTS (Selection)

05/2023 – present Project “TUNDERVIBE - TUNed Dampers Exploitation to Raise VIbration Energy harvesting” – Principal Investigator, Italian Ministry of University and Research (225890 €);

07/2022 – present CORI2022 “Introduction to Nondestructive Evaluation (NDE) and Structural Health Monitoring (SHM)” – University of Palermo, Italy.

12/2020 – 12/2022 Project “Line Element-Less Method (LEM) per la soluzione di recenti problemi matematici nell’ingegneria” – Principal Investigator, Department of Engineering, University of Palermo;

06/2020 – 09/2022 Project “SEArcularMINE - Circular Processing of Seawater Brines from Saltworks for Recovery of Valuable Raw Materials” – Participant, HORIZON2020;

07/2019 – 12/2021 Project PON AIM “Novel techniques for structural monitoring and development of adequate strategies of mitigation of vibrations and of structural reinforcement of structures belonging to the cultural heritage”, Italian Ministry of University and Research;

ADDITIONAL INFORMATION

- Author of 48 papers in peer-reviewed international journals (since 2014), including 25 as First or Corresponding Author;
- Author of 55 papers in Proceedings of National and International Conferences (since 2012)
- 1220 Citations, h-index 22 (Scopus Database)
- 1474 Citations, h-index 23 (Google Scholar Database)

PUBLICATIONS IN INTERNATIONAL JOURNALS

[1] Spanos P.D., Di Matteo A., Zhang H., Yue Q., Xu Z.; Estimation of evolutionary power spectra of univariate stochastic processes by energy-based reckoning, 2024, Reliability Engineering & System Safety, 245, 109962.

[2] Di Matteo A., Spanos P.D.; Determination of Nonstationary Stochastic Response of Linear Oscillators With Fractional Derivative Elements of Rational Order, 2024, Journal of Applied Mechanics, Transactions ASME, 91, 041008.

[3] Kalil E., Di Matteo A., Spanos P.D.; Parameter Estimation of Stochastic Fractional Dynamic Systems Using Nonlinear Bayesian Filtering System Identification Methods, 2024, Journal of Engineering Mechanics, 150, 04023117.

[4] Laflamme S., Ubertini F., Di Matteo A., Pirrotta A., et al.; Roadmap on measurement technologies for next generation structural health monitoring systems, 2023, *Measurement Science and Technology*, 34, 093001.

[5] Masnata C., Di Matteo A., Adam C., Pirrotta A.; Efficient estimation of tuned liquid column damper inerter (TLCI) parameters for seismic control of base-isolated structures, 2023, *Computer-Aided Civil And Infrastructure Engineering*, 38, 1638–1656.

[6] Zhang W., Spanos P.D., Di Matteo A.; Nonstationary Stochastic Response of Hysteretic Systems Endowed With Fractional Derivative Elements, 2023, *Journal of Applied Mechanics ASME*, 90, 061011.

[7] Di Matteo A.; Dynamic response of beams excited by moving oscillators: Approximate analytical solutions for general boundary conditions, 2023, *Computers and Structures*, 280, 106989.

[8] Masnata C., Di Matteo A., Adam C., Pirrotta A.; Nontraditional configuration of tuned liquid column damper inerter for base-isolated structures, 2023, *Mechanics Research Communications*, 129, 104101.

[9] Di Matteo A. Response of nonlinear oscillators with fractional derivative elements under evolutionary stochastic excitations: A Path Integral approach based on Laplace's method of integration, 2023, *Probabilistic Engineering Mechanics*, 71, 103402.

[10] Russotto S., Di Matteo A., Pirrotta A.; An Innovative Structural Dynamic Identification Procedure Combining Time Domain OMA Technique and GA, 2022, *BUILDINGS*, 12, 963.

[11] Di Matteo A., Pavone M., Pirrotta A.; Exact and approximate analytical solutions for nonlocal nanoplates of arbitrary shapes in bending using the line element-less method, 2022, *Meccanica*, 57, 923-941.

[12] Di Matteo A., Fiandaca D., Pirrotta, A.; Smartphone-based bridge monitoring through vehicle-bridge interaction: analysis and experimental assessment, 2022, *Journal Of Civil Structural Health Monitoring*, 12, 1329-1342,

[13] Di Matteo A., Masnata C., Adam C., Pirrotta A.; Optimal design of tuned liquid column damper inerter for vibration control, 2022, *Mechanical Systems and Signal Processing*, 167, 108553.

[14] Pirrotta A., Kougioumtzoglou I.A., Di Matteo A., Fragkoulis V.C., Pantelous A., Adam C.; Deterministic and Random Vibration of Linear Systems with Singular Parameter Matrices and Fractional Derivative Terms, 2021, *Journal of Engineering Mechanics*, 147, 04021031.

[15] Battaglia G., Di Matteo A., Micale G., Pirrotta A.; Analysis of Rectangular Orthotropic Membranes for Mechanical Properties Identification through Load-Displacement Data, 2021, *Journal of Engineering Mechanics*, 147, 04021028.

[16] Di Matteo A., Masnata C., Russotto S., Bilello C., Pirrotta A.; A novel identification procedure from ambient vibration data, 2021, *Meccanica*, 56, 797-812.

[17] Masnata C., Di Matteo A., Adam C., Pirrotta A.; Assessment of the tuned mass damper inerter for seismic response control of base-isolated structures, 2021, *Structural Control and Health Monitoring*, 28(2), e2665.

[18] Masnata C., Di Matteo A., Adam C., Pirrotta A.; Smart structures through nontraditional design of Tuned Mass Damper Inerter for higher control of base isolated systems, 2020, *Mechanics Research Communication*, 105, 103513.

[19] Di Matteo A., Pirrotta A., Gebel E., Spanos P.D.; 2020, Analysis of block random rocking on nonlinear flexible foundation, *Probabilistic Engineering Mechanics*, 59, 103017.

Bernoulli beam fitted with intraspan TMDs under Poisson type loading, *Infrastructures*, 5, 40.

[20] Di Matteo A., Dunn I.P., Failla G., Pirrotta A., 2020, A novel solution to find the dynamic response of an Euler-
Bernoulli beam fitted with intraspan TMDs under Poisson type loading, *Infrastructures*, 5, 40.

[21] Di Matteo A., Masnata C., Pirrotta A.; Hybrid Passive Control Strategies for Reducing the Displacements at the Base of Seismic Isolated Structures, 2019, *Frontiers in Built Environment*, 5, 132.

[22] Di Matteo A., Masnata C., Pirrotta A.; Simplified analytical solution for the optimal design of Tuned Mass Damper Inerter for base isolated structures, 2019, *Mechanical Systems and Signal Processing*, 134, 106337.

[23] Spanos P.D., Di Matteo A., Pirrotta A.; Steady-state dynamic response of various hysteretic systems endowed with fractional derivative elements, 2019, *Nonlinear Dynamics*, 3113–3124.

[24] Di Matteo A.; Path Integral approach via Laplace's method of integration for nonstationary response of nonlinear systems, 2019, *Meccanica*, 54, 1351-1363.

[25] Furtmüller T., Di Matteo A., Adam C., Pirrotta A.; Base-isolated structure equipped with tuned liquid column damper: an experimental study, 2019, *Mechanical Systems and Signal Processing*, 116, 816-831.

[26] Battaglia G., Di Matteo A., Micale G., Pirrotta A.; Arbitrarily shaped plates analysis via Line Element-Less Method (LEM), 2018, *Thin-Walled Structures*, 133, 235-248.

[27] Battaglia G., Di Matteo A., Micale G., Pirrotta A.; Vibration-based identification of mechanical properties of orthotropic arbitrarily shaped plates: Numerical and experimental assessment, 2018, *Composites Part B: Engineering*, 150, 212-225.

[28] Di Matteo A., Spanos P.D., Pirrotta A.; Approximate survival probability determination of hysteretic systems with fractional derivative elements, 2018, *Probabilistic Engineering Mechanics*, 54, 138-146.

[29] Di Matteo A., Furtmüller T., Adam C., Pirrotta A.; Optimal design of Tuned Liquid Column Dampers for seismic response control of base-isolated structures, 2018, *Acta Mechanica*, 229, 437-454.

[30] Colinas-Armijo N., Di Paola M., Di Matteo A.; Fractional viscoelastic behaviour under stochastic temperature process, 2018, *Probabilistic Engineering Mechanics*, 54, 37-43.

[31] Di Matteo A., Pirrotta A.; Path Integral Method for Nonlinear Systems Under Levy White Noise, 2017, *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering*, 3, 030905.

[32] Spanos P.D., Di Matteo A., Pirrotta A., Di Paola M.; Rocking of rigid block on nonlinear flexible foundation, 2017, *International Journal of Non-linear Mechanics*, 94, 362-374.

[33] Di Matteo A., Pirrotta A., Tumminelli S.; Combining TMD and TLCD: analytical and experimental studies, 2017, *Journal of Wind Engineering & Industrial Aerodynamics*, 17, 101-113.

[34] Di Matteo A., Di Paola M., Pirrotta A.; Direct evaluation of jumps for nonlinear systems under external and multiplicative impulses, 2017, *Journal of Vibration and Control*, 23, 1753-1767.

[35] Spanos P.D., Di Matteo A., Yezeng C., Pirrotta A., Li J.; Galerkin Scheme-Based Determination of Survival Probability of Oscillators with Fractional Derivative Elements, 2016, *Journal of Applied Mechanics*, 83, 121003.

[36] Bucher C., Di Matteo A., Di Paola M., Pirrotta A.; First passage problem for nonlinear systems under Levy

white noise through path integral method, 2016, *Nonlinear Dynamics*, 85, 1445–1456.

[37] Di Matteo A., Di Paola M., Pirrotta A.; Innovative modeling of Tuned Liquid Column Damper controlled structures, 2016, *Smart Structures and Systems*, 18, 117-138.

[38] Di Matteo A., Di Paola M., Pirrotta A.; Path integral solution for nonlinear systems under parametric Poissonian white noise input, 2016, *Probabilistic Engineering Mechanics*, 44, 89-98.

[39] Kougioumtzoglou I.A., Di Matteo A., Spanos P.D., Pirrotta A., Di Paola M.; An Efficient Wiener Path Integral Technique Formulation for Stochastic Response Determination of Nonlinear MDOF Systems, 2015, *Journal of Applied Mechanics*, 82, 101005.

[40] Pirrotta A., Cutrona S., Di Lorenzo S., Di Matteo A.; Fractional visco-elastic Timoshenko beam deflection via single equation, 2015, *International Journal for Numerical Methods in Engineering*, 104, 869–886.

[41] Di Matteo A., Pirrotta A.; Generalized Differential Transform Method for Nonlinear Boundary Value Problem of Fractional Order, 2015, *Communications in Nonlinear Science and Numerical Simulation*, 29, 88-101.

[42] Di Matteo A., Lo Iacono F., Navarra G., Pirrotta A.; Innovative modeling of Tuned Liquid Column Damper motion, 2015, *Communications in Nonlinear Science and Numerical Simulation*, 23, 229–244.

[43] Di Matteo A., Lo Iacono F., Navarra G., Pirrotta A.; Optimal tuning of tuned liquid column damper systems in random vibration by means of an approximate formulation, 2015, *Meccanica*, 50, 795-808.

[44] Di Matteo A., Di Paola M., Pirrotta A.; Probabilistic characterization of nonlinear systems under Poisson white noise via Complex fractional moments, 2014, *Nonlinear Dynamics*, 77, 729-738.

[45] Di Matteo A., Di Paola M., Pirrotta A.; Poisson white noise parametric input and response by using complex fractional moments, 2014, *Probabilistic Engineering Mechanics*, 38, 119–126.

[46] Di Matteo A., Kougioumtzoglou I.A., Pirrotta A., Spanos P.D., Di Paola M.; Stochastic response determination of nonlinear oscillators with fractional derivatives elements via the Wiener path integral, 2014, *Probabilistic Engineering Mechanics*, 38, 127–135.

[47] Di Matteo A., Lo Iacono F., Navarra G., Pirrotta A.; Experimental validation of a direct pre-design formula for TLCD, 2014, *Engineering Structures*, 75, 528-538.

[48] Di Matteo A., Lo Iacono F., Navarra G., Pirrotta A.; Direct evaluation of the equivalent linear damping for TLCD systems in random vibration for pre-design purposes, 2014, *International Journal of Non-linear Mechanics*, 63, 19-30.