

## PERSONAL INFORMATION

## RAIMONDO LUCIANO

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Sex M | Date of birth 30/08/1965 | Nationality Italian

**JOB POSITION** Full Professor of Structural Mechanics at the Department of Engineering, University of Naples Parthenope

**EDUCATION** M.Sc. (Laurea) in Construction Engineering (statutory period equal to five years)

## WORK EXPERIENCE

From 2018 **Full Professor of Structural Mechanics**

at the Department of Engineering, University of Naples Parthenope

From 2001 to 2018 **Full Professor of Structural Mechanics**  
at the Department of Civil and Environmental Engineering of University of Cassino and Southern Lazio

From 1999 to 2001 **Associate Professor of Structural Mechanics**  
at the Department of Civil and Environmental Engineering of University of Cassino and Southern Lazio

From 1998 to 1999 **Associate Professor of Structural Mechanics**  
at the Department of Civil Engineering of University of Salerno

From 1997 to 1998 **Visiting assistant Professor**  
Cambridge University of Cambridge, UK

From 1993 to 1994 **Visiting assistant Professor**

West Virginia University of Morgantown, USA

From 1991 to 1998 **Assistant Professor of Structural Mechanics**  
at the Department of Civil and Environmental Engineering of University of Cassino and Southern Lazio

From 1990 to 1991 **Graduated Technician**  
at the University of Roma Tor Vergata

## EDUCATION AND TRAINING

From 1982 to 1987 **M.Sc. (Laurea) in Construction Engineering cum Laude**

at the Department of Engineering of the University of Naples

## PERSONAL SKILLS

Mother tongue Italian

Other language

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Listening	
English	B2	B2	B2	B2	B2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

Computer skills - good command of Windows and Linux tools;  
- good command of Matlab and Maple.

Driving licence B

#### ADDITIONAL INFORMATION

- Teaching Activities
1. **Holder** of the Course "**Rational Mechanics**" at the Department of Civil and Environmental Engineering of University of Cassino and Southern Lazio from 1995 to 1996;
  2. **Holder** of the Course "**Fracture and Mechanics of Materials**" at the Department of Civil and Environmental Engineering of University of Cassino and Southern Lazio from 1998 to 2002;
  3. **Holder** of the Course "**Structural Mechanics**" at the Department of Civil Engineering of University of Salerno from 1998 to 1999;
  4. **Holder** of the Course "**Structural Mechanics**" at the Department of Civil and Environmental Engineering of University of Cassino and Southern Lazio from 1999 to 2018;
  5. **Holder** of the Course "**Mechanics of composite materials**" at the Department of Civil and Environmental Engineering of University of Cassino and Southern Lazio from 2002 to 2004;
  6. **Holder** of the Course "**Buildings in seismic zone**" at the Department of Civil and Environmental Engineering of University of Cassino and Southern Lazio from 2004 to 2006;
  7. **Holder** of the Course "**Dynamic of Structures**" at the Department of Civil and Environmental Engineering of University of Cassino and Southern Lazio from 2007 to 2010;
  8. **Holder** of the Course "**Analysis and design of structures**" at the Department of Civil and Environmental Engineering of University of Cassino and Southern Lazio from 2011 to 2013;
  9. **Holder** of the Course "**Structural Mechanics**" at the Department of Engineering of University of Naples Parthenope from 2018 to today;
  10. **Holder** of the Course "**Rational Mechanics**" at the Department of Engineering of University of Naples Parthenope from 2018 to today;
  11. **Holder** of the Courses inside the Civil Engineering Research Doctorate of the University of Cassino and Southern Lazio from 2000 to 2018;
  12. **Holder** of professional training courses for the Order of Engineers of the Province of Frosinone and of the University of Cassino and Southern Lazio from 2000 to 2018;
  13. **Tutoring** within the Degree Courses - Civil Engineering area, University of Cassino from 2000 to 2018;
  14. **Tutor and Co-tutor** of several M.Sc. Theses on Structural Mechanics by M.Sc. engineering students, from 2000 to today;
  15. **Tutor** Of the PhD Thesis: Dr. A. Caporale (2006), Dr. A. Apuzzo (2016) and Dr. C. Bartolomeo (2021).

- Seminar activities
1. **Seminars** on Building Consolidation, at the University of Rome "Tor Vergata" from 1988 to 1991;
  2. **Seminars** on Structural Science at the University of Cassino and Southern Lazio from 1991 to 1997;
  3. **Seminars** on Rational Mechanics, at the University of Cassino and Southern Lazio from 1994 to 1995;
  4. **Seminar** entitled "Damage Mechanics" at the Department of Mechanical and Aerospace Engineering, West Virginia University, USA, 1993;
  5. **Seminar** entitled "Micromechanics" at the Department of Mechanical and Aerospace Engineering, West Virginia University, USA, 1993;
  6. **Seminar** entitled "The compliance of a cracked body" at the Department of Mechanical and Aerospace Engineering, West Virginia University, USA, 1994;
  7. **Seminar** entitled "Elastic properties of composite materials with periodic microstructure" at the Department of Mechanical and Aerospace Engineering, West Virginia University, USA, 1994;
  8. **Seminar** entitled "Non linear elastic properties of composite materials with periodic microstructure" at the Department of Industrial Engineering, University of Cassino and Southern Lazio, 1996.

Other seminars were held in Rome, Cosenza, Salerno, Bologna, Arezzo, Palermo. Among the most recent:  
Seminar entitled "Masonry arches" at the University of Florence, 2015;  
Seminar entitled "Adobe Material" at the University of Florence, 2015;  
Seminar entitled "Mechanical modeling of fibro-reinforced masonry arches" at the Department of Civil Engineering, University of Perugia, 2017.

**Scientific Activity****INTERNATIONAL JOURNALS: GUEST EDITOR**

2017 - Guest Editor, Special Issue "Structural Modelling at the Micro-, Meso- and Nanoscales" in Modelling and Simulation in Engineering

2017 - Guest Editor, Special Issue on Non-local Modeling of Carbon Nanotubes for NEMS Technologies in Journal of Nanomaterials

**INTERNATIONAL JOURNALS: EDITORIAL BOARD**

Member of the Editorial Board of Composite B: Engineering

Member of the Editorial Board of Mechanics of Advanced Materials and Structures

**Conferences****ATTENDANCE AT CONFERENCES AND ORAL PRESENTATION OF CONFERENCE PAPERS (SELECTED FORM 2000)**

1. **Lecture**, ICTAM 2000 - 20th International Congress of Theoretical and Applied Mechanics – Chicago, 2000;
2. **Lecture**, IUTAM Symposium on Analytical and Computational Fracture Mechanics of Non-Homogeneous Materials, Cardiff U.K, 2001;
3. **Lecture**, Eurosime 2001, Delft University of Technology, Delft, Netherland, 2001;
4. **Lecture**, Colloquium Lagrangianum 2001, Le Mont-Saint-Michel, France, 2001;
5. **Lecture**, USNCTAM 14, 14th U.S. National Congress of Applied Mechanics, USA, 2002;
6. **Lecture**, Colloquium Lagrangianum 2002, Laboratoire Lagrange, Ravello, 2002;
7. **Lecture**, CCC2003, Composites in Construction International Conference, Cosenza, 2003;
8. **Lecture**, 9th U.S. National Congress on Computational Mechanics, San Francisco, CA, USA, 2007;
9. **Lecture**, ECCM2010, IV European Conference on Computational Mechanics, Paris, France, 2010;
10. **Plenary Lecture**, ICCS18, Lisboa, Portugal, 2015;
11. **Speaker**, Stochastic Mechanics 2016, Capri, 2016;
12. **Plenary Lecture**, XVII convegno CIRIAF, Rocca Apollinare, Perugia, 2017;
13. **Speaker**, WMDP - Convegno in onore del prof. Mario di Paola, Palermo, 2018;
14. **Speaker**, First International Conference on Mechanics of Advanced Materials and Structures (ICMAMS), Turin, 2018;
15. **Plenary Lecture**, 21st International Conference on Composite Structures (ICCS21), Bologne, 2018.
16. **Plenary Lecture**, 7th International Conference on Mechanics of Composites (MECHCOMP7), Porto (online), 2021.

**Committee and professional**

**Coordinator** of the Civil and Environmental Engineering Area of the University of Cassino and Southern Lazio from

2012 to 2015;

**Member** of the National Scientific Qualification Commission (ASN) for first and second level professors for Structural Mechanics from 2012 to 2013;

**President of the National Selection Committee** of the MIUR for the 2015-2016 PRIN on the appointment of the CNGR from 2015 to 2016;

**Member of the National Selection Committee** of MIUR for PRIN 2015-2016 - sector PE8 upon appointment of the CNGR from 2015 to 2016;

**President** of the Self-Assessment Group of the Bachelor's and Master's Degree Course in Civil and Environmental Engineering, University of Cassino and Southern Lazio from 2010 to 2018;

**Coordinator** of the PhD Board of Department of Civil and Environmental Engineering of University of Cassino and Southern Lazio from 2011 to 2013;

**Member** of the Examining Committee for the final examination of a Ph.D. student of the Universities of Rome Tor Vergata, Rome 2, Salerno, Calabria, Padua, Brescia, Florence and Cassino from 2003 to the present;

**REPRISE reviewer** as scientific expert from 2014 to today;

**Member** of the Board of a Research Doctorate on "Environmental Phenomena and Risks - FeRiA" at the University of Naples Parthenope from 2018 to the present.

**Member of the Comitato Nazionale dei Garanti per la Ricerca** – CNGR from 2019 to 2021. As a member of the CNGR, he has examined THOUSANDS of research projects of national and international interest (PRIN; PON; FIRB; FARE, etc.) and analyzed the establishment and organization of the Italian Research Infrastructures.

**Member of the Comitato Nazionale per la Valutazione della Ricerca** – CNVR from 2021.

He was also asked to examine all the Italian research projects and initiatives relating to the MUR calls in line with the Gelmini Law 240/2010.

Research funding  
(selected)

**Member of the Research Unit** related to the project: "Metodi di diagnosi e di progettazione per interventi di rinforzo statico e di adeguamento antisismico di edifici e di insediamenti urbani, rurali e singolari" - Programmi Nazionali di Ricerca Legge n. 46/1982 e D.M. 1/12/84 in 1988-1989.

**Winner of** a scholarship from the National Research Council, call 203.07.22 of 30/06/92 to develop a research on composite materials at the University of West Virginia (USA) in 1993;

**Scientific Coordinator** of the projects funded by the National Research Council (CNR) from 1994 to 1996;

**Scientific Coordinator of the Research Unit** of Cassino for the Project: "Progetto Strategico del CNR- Fondo Speciale per lo Sviluppo della Ricerca" Legge 449 del 27 december 1997, in 1997.

**Scientific Coordinator** of research projects financed by the Fondo per le Agevolazioni alla Ricerca (FAR) in 1999;

**Scientific Coordinator of the Research Unit** of Cassino for the Project: "Modellazione degli edifici e strutture murarie complesse" - PRIN 2003 No. MM08188844\_003 del 2003-2005;

**Scientific Coordinator of the Research Unit** of Cassino for the Project: "Valutazione sperimentale della resistenza a taglio di elementi in calcestruzzo armato con barre longitudinali in GFRP" - PRIN 2004 No. 2006084070\_004, del 2004-2006;

**Scientific Coordinator of the Research Unit** of Cassino for the Project: "Analisi teorica-sperimentale di archi e sistemi di archi in muratura rinforzati con FRP: Modellazione del comportamento dei materiali e della struttura" - PRIN 2006 No. 2002085488\_006, del 2006-2008;

**Scientific Coordinator of the Research Unit** of Cassino for the Project: DPC/ReLUIS 2014-16 – AQ DPC/ReLUIS 2014-2018: Strutture in Cemento Armato - Programma di Ricerca ReLUIS 2017, in 2014-2016.

**Scientific supervisor** of the research project Misura 2.5, Regione Lazio in 2002.

**Scientific supervisor** of a research contract for carrying out the analyses on the stress states in reinforced concrete beams with the prefabricates company 'Canova' in 2005;

**Scientific supervisor** of a research contract with the prefabricates company 'Musilli' in 2006;

**Scientific supervisor** of a research contract for carrying out the project: "Vulnerabilità sismica di edifici in c.a. del cassinate con l'utilizzo dell'NTC2008" with the company Valente & SAS in 2009;

**Scientific supervisor** of several research contracts on the per la design of road and railway viaduct and for the consolidation of masonry and reinforced concrete structures with the Progin Company from 2007 to 2013;

**Scientific supervisor** of several research contracts for carrying out analyses with the software Midas CIVIL for the company CSPFEA from 2007 to 2013.

**List of scientific publications** 168 papers in International Journals

H-INDEX: 52 e 6204 citations in SCOPUS

**Papers in International Journals:**

1. De Maio, U., Greco, F., Luciano, R., Sgambitterra, G., Pranno, A. Microstructural design for elastic wave attenuation in 3D printed nacre-like bioinspired metamaterials lightened with hollow platelets ISSN: 0093-6413 (2023) Mechanics Research Communications, 128, art. no. 104045, DOI: 10.1016/j.mechrescom.2023.104045
2. Darban, H., Luciano, R., Darban, R. Buckling of cracked micro- and nanocantilevers ISSN: 0001-5970 (2023) Acta Mechanica, 234 (2), pp. 693 - 704, DOI: 10.1007/s00707-022-03417-x
3. Amendola, A., Zampoli, V., Luciano, R. Damped waves under nonlocal Euler–Bernoulli and extended Green–Naghdi II theories in radiating thermoelastic nanobeams ISSN: 0001-5970 (2023) Acta Mechanica, DOI: 10.1007/s00707-023-03478-6
4. Scorzà, D., Luciano, R., Caporale, A., Vantadori, S. Nonlocal analysis of edge-cracked nanobeams under Mode I and Mixed-Mode (I + II) static loading (2023) ISSN: 8756-758X Fatigue and Fracture of Engineering Materials and Structures, DOI: 10.1111/ffe.13936
5. Paleari, L., Bragaglia, M., Fabbrocino, F., Luciano, R., Nanni, F. Self-Monitoring Performance of 3D-Printed Poly-Ether-Ether-Ketone Carbon Nanotube Composites ISSN: 2073-4360 (2023) Polymers, 15 (1), art. no. 8, DOI: 10.3390/polym15010008
6. Saitta, S., Fabbrocino, F., Vescovini, R., Fantuzzi, N., Luciano, R. Radial Point Interpolation Method for Isotropic Nanoplates in Bending Using Strain Gradient Theory ISSN: 0219-8762 (2022) International Journal of Computational Methods, 19 (10), art. no. 2250023, DOI: 10.1142/S0219876222500232
7. Alecci, V., De Stefano, M., Galassi, S., Luciano, R., Pugliese, D., Stipo, G. Influence of Different Mortar Matrices on the Effectiveness of FRCM Composites for Confining Masonry Columns (2022) Journal of Testing and Evaluation ISSN: 0090-3973, 51 (2), DOI: 10.1520/JTE20220323
8. Saitta, S., Luciano, R., Vescovini, R., Fantuzzi, N., Fabbrocino, F. Free vibrations and buckling analysis of cross-ply composite nanoplates by means of a Mesh Free Radial Point Interpolation Method (2022) Composite Structures ISSN: 0263-8223, 298, art. no. 115989, DOI: 10.1016/j.compstruct.2022.115989
9. Barretta, R., Čanadija, M., Luciano, R., Marotti de Sciarra, F. On the mechanics of nanobeams on nano-foundations (2022) International Journal of Engineering Science ISSN: 0020-7225, 180, art. no. 103747, DOI: 10.1016/j.ijengsci.2022.103747

10. Darban, H., Luciano, R., Caporale, A., Basista, M. Modeling of buckling of nanobeams embedded in elastic medium by local-nonlocal stress-driven gradient elasticity theory (2022) Composite Structures ISSN: 0263-8223, 297, art. no. 115907, DOI: 10.1016/j.compstruct.2022.115907
11. Pranno, A., Greco, F., Lonetti, P., Luciano, R., De Maio, U. An improved fracture approach to investigate the degradation of vibration characteristics for reinforced concrete beams under progressive damage (2022) International Journal of Fatigue ISSN: 0142-1123, 163, art. no. 107032, DOI: 10.1016/j.ijfatigue.2022.107032
12. Vantadori, S., Ronchei, C., Scorza, D., Zanichelli, A., Luciano, R. Effect of the porosity on the fatigue strength of metals (2022) Fatigue and Fracture of Engineering Materials and Structures ISSN: 8756-758X, 45 (9), pp. 2734-2747, DOI: 10.1111/ffe.13783
13. Darban, H., Luciano, R., Basista, M. Free transverse vibrations of nanobeams with multiple cracks (2022) International Journal of Engineering Science ISSN: 0020-7225, 177, art. no. 103703, DOI: 10.1016/j.ijengsci.2022.103703
14. Saitta, S., Luciano, R., Vescovini, R., Fantuzzi, N., Fabbrocino, F. Optimization of a Radial Point Interpolation Meshless strategy for strain gradient nanoplates (2022) Engineering Analysis with Boundary Elements ISSN 0955-7997, 140, pp. 70-78, DOI: 10.1016/j.enganabound.2022.03.026
15. Vantadori, S., Vázquez Valeo, J., Zanichelli, A., Carpinteri, A., Luciano, R. Structural integrity of shot peened Ti6Al4V specimens under fretting fatigue (2022) International Journal of Fracture ISSN: 0376-9429, 234 (1-2), pp. 45-55, DOI: 10.1007/s10704-021-00523-0
16. Caporale, A., Darban, H., Luciano, R. Nonlocal strain and stress gradient elasticity of Timoshenko nano-beams with loading discontinuities (2022) International Journal of Engineering Science ISSN: 0020-7225, 173, art. no. 103620, DOI: 10.1016/j.ijengsci.2021.103620
17. Pranno, A., Greco, F., Leonetti, L., Lonetti, P., Luciano, R., De Maio, U. Band gap tuning through microscopic instabilities of compressively loaded lightened nacre-like composite metamaterials (2022) Composite Structures ISSN: 0263-8223, 282, art. no. 115032, DOI: 10.1016/j.compstruct.2021.115032
18. Russillo, A.F., Failla, G., Amendola, A., Luciano, R. On the Free Vibrations of Non-Classically Damped Locally Resonant Metamaterial Plates (2022) Nanomaterials ISSN: 2079-4991, 12 (3), art. no. 541, DOI: 10.3390/nano12030541
19. Scorza, D., Luciano, R., Vantadori, S. Fracture behaviour of nanobeams through Two-Phase Local/Nonlocal Stress-Driven model (2022) Composite Structures ISSN: 0263-8223, 280, art. no. 114957, DOI: 10.1016/j.compstruct.2021.114957
20. Fantuzzi, N., Shi, F., Colatosti, M., Luciano, R. Multiscale homogenization and analysis of anisotropic assemblies as cosserat continua (2022) International Journal for Multiscale Computational Engineering ISSN: 1543-1649, 20 (5), pp. 87-103, DOI: 10.1615/IntJMultCompEng.2022043195
21. Bacciochetti, M., Fantuzzi, N., Luciano, R., Tarantino, A.M. Finite element solution of vibrations and buckling of laminated thin plates in hygro-thermal environment based on strain gradient theory (2022) Mechanics of Advanced Materials and Structures ISSN: 1537-6494, DOI: 10.1080/15376494.2022.2093425
22. Saitta, S., Fabbrocino, F., Vescovini, R., Fantuzzi, N., Luciano, R. Radial Point Interpolation Method for Isotropic Nanoplates in Bending Using Strain Gradient Theory (2022) International Journal of Computational Methods ISSN: 0219-8762, art. no. 2250023, DOI: 10.1142/S0219876222500232
23. Darban, H., Luciano, R., Basista, M. Calibration of the length scale parameter for the stress-driven nonlocal elasticity model from quasi-static and dynamic experiments (2022) Mechanics of Advanced Materials and Structures ISSN: 1537-6494, DOI: 10.1080/15376494.2022.2077488
24. Vantadori, S., Luciano, R., Scorza, D., Darban, H. Fracture analysis of nanobeams based on the stress-driven non-local theory of elasticity (2022) Mechanics of Advanced Materials and Structures ISSN:

1537-6494, 29 (14), pp. 1967-1976, DOI: 10.1080/15376494.2020.1846231

25. Bacciochini, M., Fantuzzi, N., Luciano, R., Tarantino, A.M. Linear eigenvalue analysis of laminated thin plates including the strain gradient effect by means of conforming and nonconforming rectangular finite elements (2021) Computers and Structures ISSN: 0045-7949, 257, art. no. 106676, DOI: 10.1016/j.compstruc.2021.106676
26. Alecci, V., Barducci, S., De Stefano, M., Galassi, S., Luciano, R., Rovero, L., Stipo, G. Reliability of different test setups and influence of mortar mixture on the fabric-reinforced cementitious matrix-to-brick bond response (2021) Journal of Testing and Evaluation ISSN: 0090-3973, 49 (6), DOI: 10.1520/JTE20200656
27. Scorza, D., Vantadori, S., Luciano, R. Nanobeams with internal discontinuities: A local/nonlocal approach (2021) Nanomaterials ISSN: 2079-4991, 11 (10), art. no. 2651, DOI: 10.3390/nano11102651
28. Ammendolea, D., Greco, F., Lonetti, P., Luciano, R., Pascuzzo, A. Crack propagation modeling in functionally graded materials using Moving Mesh technique and interaction integral approach (2021) Composite Structures ISSN: 0263-8223, 269, art. no. 114005, DOI: 10.1016/j.compstruct.2021.114005
29. Tocci Monaco, G., Fantuzzi, N., Fabbrocino, F., Luciano, R. Semi-analytical static analysis of nonlocal strain gradient laminated composite nanoplates in hygrothermal environment (2021) Journal of the Brazilian Society of Mechanical Sciences and Engineering ISSN: 1678-5878, 43 (5), art. no. 274, DOI: 10.1007/s40430-021-02992-9
30. Tocci Monaco, G., Fantuzzi, N., Fabbrocino, F., Luciano, R. Hygro-thermal vibrations and buckling of laminated nanoplates via nonlocal strain gradient theory (2021) Composite Structures ISSN: 0263-8223, 262, art. no. 113337, DOI: 10.1016/j.compstruct.2020.113337
31. Monaco, G.T., Fantuzzi, N., Fabbrocino, F., Luciano, R. Trigonometric solution for the bending analysis of magneto-electro-elastic strain gradient nonlocal nanoplates in hygro-thermal environment (2021) Mathematics ISSN: 2227-7390, 9 (5), art. no. 567, DOI: 10.3390/math9050567
32. Darban, H., Caporale, A., Luciano, R. Nonlocal layerwise formulation for bending of multilayered/functionally graded nanobeams featuring weak bonding (2021) European Journal of Mechanics, A/Solids ISSN: 0997-7538, 86, art. no. 104193. DOI: 10.1016/j.euromechsol.2020.104193
33. Scorza, D., Luciano, R., Mousa, S., Vantadori, S. Fracture behaviour of hybrid fibre-reinforced roller-compacted concrete used in pavements (2021) Construction and Building Materials ISSN: 0950-0618, 271, art. no. 121554. DOI: 10.1016/j.conbuildmat.2020.121554
34. Ceroni, F., Darban, H., Caterino, N., Luciano, R. Efficiency of injected anchors in masonry elements: Evaluation of pull-out strength (2021) Construction and Building Materials ISSN: 0950-0618, 267, art. no. 121707. DOI: 10.1016/j.conbuildmat.2020.121707
35. Monaco, G.T., Fantuzzi, N., Fabbrocino, F., Luciano, R. Critical temperatures for vibrations and buckling of magneto-electro-elastic nonlocal strain gradient plates (2021) Nanomaterials ISSN: 2079-4991, 11 (1), art. no. 87, pp. 1-18. DOI: 10.3390/nano11010087
36. Penna, R., Feo, L., Fortunato, A., Luciano, R. Nonlinear free vibrations analysis of geometrically imperfect FG nano-beams based on stress-driven nonlocal elasticity with initial pretension force (2021) Composite Structures, 255, art. no. 112856. DOI: 10.1016/j.compstruct.2020.112856
37. Darban, H., Fabbrocino, F., Luciano, R. Size-dependent linear elastic fracture of nanobeams (2020) International Journal of Engineering Science ISSN: 0020-7225, 157, art. no. 103381. DOI: 10.1016/j.ijengsci.2020.103381
38. Apuzzo, A., Bartolomeo, C., Luciano, R., Scorza, D. Novel local/nonlocal formulation of the stress-driven model through closed form solution for higher vibrations modes (2020) Composite Structures ISSN: 0263-8223, 252, art. no. 112688. DOI: 10.1016/j.compstruct.2020.112688

39. Greco, F., Leonetti, L., Lonetti, P., Luciano, R., Pranno, A. A multiscale analysis of instability-induced failure mechanisms in fiber-reinforced composite structures via alternative modeling approaches (2020) *Composite Structures* ISSN: 0263-8223, 251, art. no. 112529. DOI: 10.1016/j.compstruct.2020.112529
40. Fabbrocino, F., Darban, H., Luciano, R. Nonlocal layerwise formulation for interfacial tractions in layered nanobeams (2020) *Mechanics Research Communications* ISSN: 0093-6413, 109, art. no. 103595. DOI: 10.1016/j.mechrescom.2020.103595
41. Darban, H., Luciano, R., Caporale, A., Fabbrocino, F. Higher modes of buckling in shear deformable nanobeams (2020) *International Journal of Engineering Science* ISSN: 0020-7225, 154, art. no. 103338. DOI: 10.1016/j.ijengsci.2020.103338
42. Funari, M.F., Spadea, S., Lonetti, P., Fabbrocino, F., Luciano, R. Visual programming for structural assessment of out-of-plane mechanisms in historic masonry structures (2020) *Journal of Building Engineering* ISSN: 2352-7102, 31, art. no. 101425. DOI: 10.1016/j.jobe.2020.101425
43. Vantadori, S., Carpinteri, A., Luciano, R., Ronchei, C., Scorza, D., Zanichelli, A., Okamoto, Y., Saito, S., Itoh, T. Crack initiation and life estimation for 316 and 430 stainless steel specimens by means of a critical plane approach (2020) *International Journal of Fatigue* ISSN: 0142-1123, 138, art. no. 105677. DOI: 10.1016/j.ijfatigue.2020.105677
44. Modano, M., Majumder, A., Santos, F., Luciano, R., Fraternali, F. Fast and Optimized Calculation of the Cable Pretension Forces in Arch Bridges With Suspended Deck (2020) *Frontiers in Built Environment* ISSN: 2297-3362, 6, art. no. 114. DOI: 10.3389/fbuil.2020.00114
45. Luciano, R., Darban, H., Bartolomeo, C., Fabbrocino, F., Scorza, D. Free flexural vibrations of nanobeams with non-classical boundary conditions using stress-driven nonlocal model (2020) *Mechanics Research Communications* ISSN: 0093-6413, 107, art. no. 103536. DOI: 10.1016/j.mechrescom.2020.103536
46. Ceroni, F., Darban, H., Luciano, R. Analysis of bond behavior of injected anchors in masonry elements by means of Finite Element Modeling (2020) *Composite Structures* ISSN: 0263-8223, 241, art. no. 112099. DOI: 10.1016/j.compstruct.2020.112099
47. Funari, M.F., Spadea, S., Fabbrocino, F., Luciano, R. A moving interface finite element formulation to predict dynamic edge debonding in FRP-strengthened concrete beams in service conditions (2020) *Fibers* ISSN: 2079-6439, 8 (6), art. no. 42. DOI: 10.3390/FIB8060042
48. Barretta, R., Fabbrocino, F., Luciano, R., de Sciarra, F.M., Ruta, G. Buckling loads of nano-beams in stress-driven nonlocal elasticity (2020) *Mechanics of Advanced Materials and Structures* ISSN: 1537-6494, 27 (11), pp. 869-875. DOI: 10.1080/15376494.2018.1501523
49. Vantadori, S., Carpinteri, A., Luciano, R., Ronchei, C., Scorza, D., Zanichelli, A. Mean stress effect on fatigue life estimation for Inconel 718 alloy (2020) *International Journal of Fatigue* ISSN: 0142-1123, 133, art. no. 105391. DOI: 10.1016/j.ijfatigue.2019.105391
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