

# Curriculum Vitae



**Updated**  
**April 3, 2024**

## Personal information

Name / Surname

Address

Telephone

Personal Email

Nationality

Date of birth

Gender

Mother tongue

*Self-assessment*  
*European level<sup>(\*)</sup>*

**English**

**German**

## Education

2003

1996

## Academic Positions

2019 - today

2008 - 2019

## Teaching activities

2008-2013

2009-today

2017-2023

**Nobili, Andrea**

via Pietro Vivarelli, 10, 41125 Modena, Italy

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andrea.nobili@unimore.it

Italian

11th of June, 1974

male

**Italian**



Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user
A2 Basic user	A2 Basic user	A2 Basic user	A2 Basic user	A2 Basic user

<sup>(\*)</sup> Common European Framework of Reference (CEF) level

PhD in Material Science, University of Modena and Reggio Emilia, with a Thesis on "Magneto-elastic interaction"

Master degree cum laude in Mechanical Engineering, University of Modena and Reggio Emilia

Associate Professor at the Engineering Department "Enzo Ferrari", University of Modena and Reggio Emilia

Researcher at the Engineering Department "Enzo Ferrari", University of Modena and Reggio Emilia

Statics - 54 hrs - Civil engineers (bachelor)

Structural dynamics - 108 hrs - Civil engineers (bachelor)

Computational Mechanics - 81 hrs - Civil engineers (master)

## PhD committee board member

- 2023-today Coordinator of the civil section within the PhD programme in Civil, Environmental and Material Engineering, University of Modena and Reggio, Italy
- 2017-2023 Board member of the Industrial and landscape engineering PhD programme, University of Modena and Reggio, Italy

## PhD external examiner

- 2024 External examiner at Research Doctorate (PhD) level, for the candidate Marco Amato, supervisor Prof. Francesco Dal Corso, Davide Bigoni, Andrea Piccolroaz, Thesis Title "Elastic solids under frictionless rigid contact and configurational forces", University of Trento, Italy
- 2023 External examiner at Research Doctorate (PhD) level, for the candidate Nirakara Pradhan, supervisor Prof. Sapan Kumar Samal, Thesis Title "Seismic surface waves in elastic media", Kalinga Institute of Industrial Technology (KIIT), India
- 19th of April 2023 External examiner at Research Doctorate (PhD) level, for the candidate Mattia Nardin, supervisor Prof. F. Dal Corso and Prof. D. Bigoni, Thesis Title "Modeling of microstructured materials via finite element formulation of strain gradient elasticity", Trento University, Italy
- June 2015 External examiner at Research Doctorate (PhD) level, for the candidate Anzhela Shestakova, supervisor Prof. J Kaplunov, Thesis Title "Development of mathematical models for freight cars subject to dynamic loading", Keele University, UK

## Publications (Scopus)

- 0000-0002-9657-5903 orcid
- 68 Scopus indexed documents
- 20 H-index
- 1032 citations
- 2023 Listed in the top 100,000 scientist according to c-score in the October 2023 data-update for "Updated science-wide author databases of standardized citation indicators", Elsevier, <https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/6>

## Editorial activities

- 2023 Mechanics of High-Contrast Elastic Solids, Contributions from Euromech Colloquium 626, in Advanced Structured Materials, Springer, ISBN 978-3-031-24140-6, Eds: Holm Altenbach, Danila Prikazchikov, Andrea Nobili, <https://link.springer.com/book/10.1007/978-3-031-24141-3>
- 2022 Engineered Materials for Sustainable Structures (EM4SS'21), Trans Tech Publications, ISSN 1013-9826, Eds: Roberto Frassine, Andrea Nobili, Giuseppe Saccomandi, Cesare Signorini, <https://www.scientific.net/book/engineered-materials-for-sustainable-structures/978-3-0357-3424-9>

## International journal Editorial board membership

ISSN 2666-4968

Applications in Engineering Science (APPLES), Elsevier, <https://www.sciencedirect.com/journal/applications-in-engineering-science>

ISSN 2079-6412

Coatings, MDPI, <https://www.mdpi.com/journal/coatings>

ISSN 2146-0205

Journal of Science and Technology A- Applied Sciences and Engineering (AUJST-A), Anadolu University, Turkey

## Invited talks/visiting positions

14-28 Sept 2022

Visiting fellow at Keele University under the Heilbronn Institute for Mathematical Research (Heilbronn Small Grant award)

17th of Feb. 2022

Seminar series on Recent Developments in Applied Mathematics, Department of Mathematics, Indian Institute of Technology (IIT), "Wave propagation in complex media"

10th of June 2021

MINERAL-BONDED COMPOSITES FOR ENHANCED STRUCTURAL IMPACT SAFETY - Research Training Group DFG GRK 2250/1 Summer School

3-9 March 2019

Mini-Workshop: Mathematical Aspects of Nonlinear Wave Propagation in Solid Mechanics, Oberwolfach, Germany

7th April 2017

PhD day: The Finale Emilia Hospital rehabilitation, Sheffield, UK

1-8 April and 14-21 Oct 2017

Mathematical Methods in Mechanics and Applied Mathematics, Keele, UK

19 July - 11 Sep 2014

IMAS Summer fellowship, Aberystwyth University, UK

3 - 27 Feb 2013

Visiting fellow at Keele University, UK, host: Prof. Y. Fu

27 July - 10 Aug 2013

Visiting fellow at Aberystwyth University, UK, host: Prof. G. Mishuris

24 Feb - 1 Mar 2008

Mini-Workshop: The Mathematics of Electro-Active Smart Materials, Oberwolfach, Germany, 2008

## Scientific Societies membership

2018-today

European Mechanics Society (Euromech)

2002-today

National Group of Mathematical Physics (GNFM)

2012-today

Society for Natural Philosophy (SNP)

2017-today

Società Italiana di Scienza delle Costruzioni (SISCo)

## Awards

2006, 2007, 2015, 2017

Young Researcher Award by the National Group of Mathematical Physics, an institute of Higher Mathematics

2014

IMPAS Summer Fellowship, August/Sept. 2014, Aberystwyth University, Aberystwyth, UK

## Fundings

2023	Ministry of University and Research (MUR) - PRIN 2022 PNRR - Sustainable Composite materials for the construction industry (SCENT), PI
2023	FAR UNIMORE, project "3D printing of skin bandages for healing wounds (3DSkinHealing)", PI
2023	European Regional Development Funds - PR FESR 2021-2027 Action 1.1.2 European Regional Funds (bando per progetti di ricerca industriale strategica rivolti agli ambiti prioritari della strategia di specializzazione intelligente di cui alla D.G.R. 2097/2022), "Use of Recycled Plastic Materials for Lightweight Structural Mortars and Concretes" (PG/2018/632099), co-PI
2020	Ministry of University and Research (MUR) - PRIN Mathematics for industry 4.0 (Math4I4), CUP E93C20007850001, co-PI
2021-2026	H2020-EU.1.3. - EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions Main Programme-RISE-2020, Proposal number: 101008140, "Effective Factorisation techniques for matrix-functions: Developing theory, numerical methods and impactful applications", Proposal acronym: EffectFact, <a href="http://fp7.imaps.aber.ac.uk/effectfact.html">http://fp7.imaps.aber.ac.uk/effectfact.html</a> , co-PI
2019	European Regional Development Funds - POR FESR 2014-2020", "Use of recycled plastic materials for lightweight structural mortars and concretes", CUP E81F18000310009, co-PI
2019	FAR UNIMORE, "Material selection and structural analysis of novel 3D-printable scaffold solutions for bone damage implants", PI
2017	FIRB MUR, PI
2016	FAR UNIMORE, "Interphase strength enhancement of glass fabric reinforced composite materials for seismic rehabilitation and retrofitting", PI
2014 – 2017	FCR Modena, "Development, modeling and application of structural reinforcement systems in composite material of carbon fiber and IPN resin for the seismic adaptation, restoration and consolidation of civil and industrial buildings: methodologies, performances and failure analysis" (Sime no. 2013.0662), PI

## Patents

2022	Italian patent n.102022000001409
2006	European Patent n.06124764.9-2303
2005	Italian patent BO2005U000074

## Charts/Qualifications

2018-today	Full professorship qualification
2010	Designation as Inventor under Rule 17(3) European Patent Code, patent 06124764.9-2303, European Patent Office (EPO)
2000	Chartered Engineer

## Publications (source Scopus)

- [J1] Andrea Nobili and Giuseppe Saccomandi. Revisiting the love hypothesis for introducing dispersion of longitudinal waves in elastic rods. *European Journal of Mechanics, A/Solids*, 105, 2024. Cited by: 0.

- [J2] E. Radi, A. Nobili, and M.A. Guler. Indentation of a free beam resting on an elastic substrate with an internal lengthscale. *European Journal of Mechanics, A/Solids*, 100, 2023. Cited by: 2.
- [J3] Veronica Bertolli, Cesare Signorini, Andrea Nobili, and Tommaso D'Antino. Influence of severe thermal preconditioning on the bond between carbon frpm and masonry substrate: Effect of textile pre-impregnation. *Construction and Building Materials*, 409, 2023. Cited by: 0.
- [J4] Cesare Signorini, Antonella Sola, and Andrea Nobili. Hierarchical composite coating for enhancing the tensile behaviour of textile-reinforced mortar (trm). *Cement and Concrete Composites*, 140, 2023. Cited by: 3.
- [J5] Timofei Shugailo, Andrea Nobili, and Gennady Mishuris. A mechanical model for thin sheet straight cutting in the presence of an elastic support. *International Journal of Engineering Science*, 193, 2023. Cited by: 2.
- [J6] Holm Altenbach, Andrea Nobili, and Danila Prikazchikov. Preface. *Advanced Structured Materials*, 187:v – vi, 2023. Cited by: 0.
- [J7] Cesare Signorini, Antonella Sola, Beatrice Malchiodi, and Andrea Nobili. Highly dissipative fiber-reinforced concrete for structural screeds. *Journal of Materials in Civil Engineering*, 34(4), 2022. Cited by: 6.
- [J8] Andrea Nobili. Stoneley waves in media with microstructure. *Lecture Notes in Mechanical Engineering*, pages 463 – 475, 2022. Cited by: 0.
- [J9] Roberto Frassine, Andrea Nobili, Giuseppe Saccomandi, and Cesare Signorini. Preface to “engineered materials for sustainable structures”. *Key Engineering Materials*, 919 KEM, 2022. Cited by: 0.
- [J10] Valentina Volpini, Alberto Giubilini, Lorenzo Corsi, Andrea Nobili, and Federica Bondioli. Characterization of biocompatible scaffolds manufactured by fused filament fabrication of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate). *Royal Society Open Science*, 9(4), 2022. Cited by: 3.
- [J11] Andrea Nobili, Cesare Signorini, and Valentina Volpini. Experimental and theoretical investigation of the mechanical properties of phbh biopolymer parts produced by fused deposition modeling. *Macromolecular Symposia*, 405(1), 2022. Cited by: 0.
- [J12] A Nobili, B Erbas, and C Signorini. Veering of rayleigh–lamb waves in orthorhombic materials. *Mathematics and Mechanics of Solids*, 27(9):1783 – 1799, 2022. Cited by: 4.
- [J13] Cesare Signorini, Simona Marinelli, Valentina Volpini, Andrea Nobili, Enrico Radi, and Bianca Rimini. Performance of concrete reinforced with synthetic fibres obtained from recycling end-of-life sport pitches. *Journal of Building Engineering*, 53, 2022. Cited by: 5.
- [J14] Andrea Nobili and Enrico Radi. Hamiltonian/stroh formalism for anisotropic media with microstructure. *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*, 380(2231), 2022. Cited by: 1.
- [J15] Cesare Signorini and Andrea Nobili. Durability of fibre-reinforced cementitious composites (frcc) including recycled synthetic fibres and rubber aggregates. *Applications in Engineering Science*, 9, 2022. Cited by: 9.
- [J16] Andrea Nobili. Asymptotically consistent size-dependent plate models based on the couple-stress theory with micro-inertia. *European Journal of Mechanics, A/Solids*, 89, 2021. Cited by: 7.
- [J17] Andrea Nobili, Valentina Volpini, and Cesare Signorini. Antiplane stoneley waves propagating at the interface between two couple stress elastic materials. *Acta Mechanica*, 232(3):1207 – 1225, 2021. Cited by: 11.
- [J18] Andrea Nobili and Valentina Volpini. Microstructured induced band pattern in love wave propagation for novel nondestructive testing (ndt) procedures. *International Journal of Engineering Science*, 168, 2021. Cited by: 10.

- [J19] A. Nobili and A.V. Pichugin. Quasi-adiabatic approximation for thermoelastic surface waves in orthorhombic solids. *International Journal of Engineering Science*, 161, 2021. Cited by: 7.
- [J20] Cesare Signorini and Andrea Nobili. Comparing durability of steel reinforced grout (srg) and textile reinforced mortar (trm) for structural retrofitting. *Materials and Structures/Materiaux et Constructions*, 54(3), 2021. Cited by: 13.
- [J21] Cesare Signorini and Andrea Nobili. Targeting functionalised carbon nanotubes at the interphase of textile reinforced mortar (trm) composites. *Composites Part A: Applied Science and Manufacturing*, 144, 2021. Cited by: 10.
- [J22] Enrico Radi, Giovanni Bianchi, and Andrea Nobili. Bounds to the pull-in voltage of a mems/nems beam with surface elasticity. *Applied Mathematical Modelling*, 91:1211 – 1226, 2021. Cited by: 13.
- [J23] Cesare Signorini, Andrea Nobili, Antonella Sola, and Massimo Messori. Optimal epoxy dilution for epoxy-coated textile reinforced mortar (trm): An experimental perspective. *Lecture Notes in Mechanical Engineering*, pages 499 – 511, 2020. Cited by: 3.
- [J24] Cesare Signorini, Antonella Sola, Beatrice Malchiodi, Andrea Nobili, and Andrea Gatto. Failure mechanism of silica coated polypropylene fibres for fibre reinforced concrete (frc). *Construction and Building Materials*, 236, 2020. Cited by: 40.
- [J25] A. Nobili, E. Radi, and C. Signorini. A new rayleigh-like wave in guided propagation of antiplane waves in couple stress materials. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, 476(2235), 2020. Cited by: 17.
- [J26] Gennadi Mikhasev and Andrea Nobili. On the solution of the purely nonlocal theory of beam elasticity as a limiting case of the two-phase theory. *International Journal of Solids and Structures*, 190:47 – 57, 2020. Cited by: 24.
- [J27] Andrea Nobili, Enrico Radi, and Gennady Mishuris. Diffraction and reflection of antiplane shear waves in a cracked couple stress elastic material. *Lecture Notes in Mechanical Engineering*, pages 137 – 150, 2020. Cited by: 0.
- [J28] Cesare Signorini, Andrea Nobili, Antonella Sola, and Massimo Messori. Designing epoxy viscosity for optimal mechanical performance of coated glass textile reinforced mortar (gtrm) composites. *Construction and Building Materials*, 233, 2020. Cited by: 25.
- [J29] Andrea Nobili, Enrico Radi, and Adam Vellender. Diffraction of antiplane shear waves and stress concentration in a cracked couple stress elastic material with micro inertia. *Journal of the Mechanics and Physics of Solids*, 124:663 – 680, 2019. Cited by: 24.
- [J30] Massimo Messori, Andrea Nobili, Cesare Signorini, and Antonella Sola. Effect of high temperature exposure on epoxy-coated glass textile reinforced mortar (gtrm) composites. *Construction and Building Materials*, 212:765 – 774, 2019. Cited by: 34.
- [J31] Cesare Signorini, Andrea Nobili, and Cristina Siligardi. Sustainable mineral coating of alkali-resistant glass fibres in textile-reinforced mortar composites for structural purposes. *Journal of Composite Materials*, 53(28-30):4203 – 4213, 2019. Cited by: 20.
- [J32] Cesare Signorini, Antonella Sola, Andrea Nobili, and Cristina Siligardi. Lime-cement textile reinforced mortar (trm) with modified interphase. *Journal of Applied Biomaterials and Functional Materials*, 17(1), 2019. Cited by: 29.
- [J33] Cesare Signorini, Andrea Nobili, and Federico O. Falope. Mechanical performance and crack pattern analysis of aged carbon fabric cementitious matrix (cfrcm) composites. *Composite Structures*, 202:1114 – 1120, 2018. Cited by: 24.
- [J34] C. Signorini, A. Nobili, E.I. Cedillo González, and C. Siligardi. Silica coating for interphase bond enhancement of carbon and ar-glass textile reinforced mortar (trm). *Composites Part B: Engineering*, 141:191 – 202, 2018. Cited by: 45.

- [J35] L. Lanzoni, E. Radi, and A. Nobili. Stress and pressure fields around two wellbores in a poroelastic medium. *Meccanica*, 53(3):639 – 657, 2018. Cited by: 6.
- [J36] Massimo Messori, Andrea Nobili, Cesare Signorini, and Antonella Sola. Mechanical performance of epoxy coated ar-glass fabric textile reinforced mortar: Influence of coating thickness and formulation. *Composites Part B: Engineering*, 149:135 – 143, 2018. Cited by: 39.
- [J37] A. Nobili and Danila A. Prikazchikov. Explicit formulation for the rayleigh wave field induced by surface stresses in an orthorhombic half-plane. *European Journal of Mechanics, A/Solids*, 70:86 – 94, 2018. Cited by: 26.
- [J38] B. Erbas, J. Kaplunov, A. Nobili, and G. Kılıç. Dispersion of elastic waves in a layer interacting with a winkler foundation. *Journal of the Acoustical Society of America*, 144(5):2918 – 2925, 2018. Cited by: 22.
- [J39] A. Nobili and C. Signorini. On the effect of curing time and environmental exposure on impregnated carbon fabric reinforced cementitious matrix (cfrcm) composite with design considerations. *Composites Part B: Engineering*, 112:300 – 313, 2017. Cited by: 50.
- [J40] J. Kaplunov and A. Nobili. The edge waves on a kirchhoff plate bilaterally supported by a two-parameter elastic foundation. *JVC/Journal of Vibration and Control*, 23(12):2014 – 2022, 2017. Cited by: 24.
- [J41] Andrea Nobili and Federico O. Falope. Impregnated carbon fabric-reinforced cementitious matrix composite for rehabilitation of the finale emilia hospital roofs: Case study. *Journal of Composites for Construction*, 21(4), 2017. Cited by: 30.
- [J42] Andrea Nobili, Enrico Radi, and Luca Lanzoni. Flexural edge waves generated by steady-state propagation of a loaded rectilinear crack in an elastically supported thin plate. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, 473(2204), 2017. Cited by: 8.
- [J43] J. Kaplunov and A. Nobili. A robust approach for analysing dispersion of elastic waves in an orthotropic cylindrical shell. *Journal of Sound and Vibration*, 401:23 – 35, 2017. Cited by: 15.
- [J44] J. Kaplunov and A. Nobili. Multi-parametric analysis of strongly inhomogeneous periodic waveguides with internal cutoff frequencies. *Mathematical Methods in the Applied Sciences*, 40(9):3381 – 3392, 2017. Cited by: 20.
- [J45] Andrea Nobili, Enrico Radi, and Luca Lanzoni. On the effect of the backup plate stiffness on the brittle failure of a ceramic armor. *Acta Mechanica*, 227(1):159 – 172, 2016. Cited by: 9.
- [J46] Askar Kudaibergenov, Andrea Nobili, and Ludmilla Prikazchikova. On low-frequency vibrations of a composite string with contrast properties for energy scavenging fabric devices. *Journal of Mechanics of Materials and Structures*, 11(3):231 – 243, 2016. Cited by: 19.
- [J47] Michel Destrade, Yibin Fu, and Andrea Nobili. Edge wrinkling in elastically supported pre-stressed incompressible isotropic plates. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, 472(2193), 2016. Cited by: 18.
- [J48] Luca Lanzoni, Andrea Nobili, Enrico Radi, and Andrea Sorzia. Failure mechanism of frc slabs on non-local ground. *Meccanica*, 51(10):2473 – 2492, 2016. Cited by: 6.
- [J49] A. Nobili. Durability assessment of impregnated glass fabric reinforced cementitious matrix (gfrcm) composites in the alkaline and saline environments. *Construction and Building Materials*, 105:465 – 471, 2016. Cited by: 52.
- [J50] Andrea Nobili. On the generalization of the timoshenko beam model based on the micropolar linear theory: Static case. *Mathematical Problems in Engineering*, 2015, 2015. Cited by: 6.
- [J51] Luca Lanzoni, Andrea Nobili, Enrico Radi, and Andrea Sorzia. Axisymmetric loading of an elastic-plastic plate on a general two-parameter foundation. *Journal of Mechanics of Materials and Structures*, 10(4):459 – 479, 2015. Cited by: 8.

- [J52] Andrea Nobili and Angelo Marcello Tarantino. Pseudo-spectral methods in one-dimensional magnetostriction. *Meccanica*, 50(1):99 – 108, 2015. Cited by: 1.
- [J53] L. Lanzoni, E. Radi, and A. Nobili. Ultimate carrying capacity of elastic-plastic plates on a pasternak foundation. *Journal of Applied Mechanics, Transactions ASME*, 81(5), 2014. Cited by: 11.
- [J54] A. Nobili, E. Radi, and L. Lanzoni. A cracked infinite kirchhoff plate supported by a two-parameter elastic foundation. *Journal of the European Ceramic Society*, 34(11):2737 – 2744, 2014. Cited by: 24.
- [J55] Andrea Nobili and Luca Lanzoni. On the stability loss for an euler beam resting on a tensionless pasternak foundation. *Zeitschrift fur Angewandte Mathematik und Physik*, 65(4):797 – 808, 2014. Cited by: 6.
- [J56] A. Nobili, L. Lanzoni, and A.M. Tarantino. Experimental investigation and monitoring of a polypropylene-based fiber reinforced concrete road pavement. *Construction and Building Materials*, 47:888 – 895, 2013. Cited by: 87.
- [J57] Andrea Nobili. Superposition principle for the tensionless contact of a beam resting on a winkler or a pasternak foundation. *Journal of Engineering Mechanics*, 139(10):1470 – 1478, 2013. Cited by: 21.
- [J58] A. Nobili. Variational approach to beams resting on two-parameter tensionless elastic foundations. *Journal of Applied Mechanics, Transactions ASME*, 79(2), 2012. Cited by: 24.
- [J59] L. Lanzoni, A. Nobili, and A.M. Tarantino. Performance evaluation of a polypropylene-based draw-wired fibre for concrete structures. *Construction and Building Materials*, 28(1):798 – 806, 2012. Cited by: 64.
- [J60] A. Nobili and L. Lanzoni. Electromechanical instability in layered materials. *Mechanics of Materials*, 42(5):581 – 591, 2010. Cited by: 5.
- [J61] Gaetano Napoli and Andrea Nobili. Mechanically induced helfrich-hurault effect in lamellar systems. *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*, 80(3), 2009. Cited by: 11.
- [J62] Andrea Nobili and Angelo Marcello Tarantino. Magnetostriction of a hard ferromagnetic and elastic thin-film structure. *Mathematics and Mechanics of Solids*, 13(2):95 – 123, 2008. Cited by: 8.
- [J63] A. Nobili. Magnetostriction of a saturated hard ferromagnetic beam-plate sandwich structure. *Oberwolfach Reports*, 5(1):473[U+0096]512, 2008.
- [J64] Angelo Marcello Tarantino and Andrea Nobili. Finite homogeneous deformations of symmetrically loaded compressible membranes. *Zeitschrift fur Angewandte Mathematik und Physik*, 58(4):659 – 678, 2007. Cited by: 8.
- [J65] Andrea Nobili and Angelo Marcello Tarantino. A hard ferromagnetic and elastic beam-plate sandwich structure. *Zeitschrift fur Angewandte Mathematik und Physik*, 58(1):137 – 160, 2007. Cited by: 1.
- [J66] Angelo Marcello Tarantino and Andrea Nobili. Constitutive branching analysis of cylindrical bodies under in-plane equibiaxial dead-load tractions. *International Journal of Non-Linear Mechanics*, 41(8):958 – 968, 2006. Cited by: 5.
- [J67] Andrea Nobili and Angelo Marcello Tarantino. Unilateral contact problem for aging viscoelastic beams. *Journal of Engineering Mechanics*, 131(12):1229 – 1238, 2005. Cited by: 4.

## Conferences, Workshops, Seminars

- [C1] A Nobili. Thermal preconditioning of carbon frcm strips on a masonry support. Florence, Italy, 18-19 March 2024. 2nd International Summit on Civil, Structural and Environmental Engineering (ISC-SEE2024).
- [C2] A Nobili. Some remarks on the love hypothesis in nonlinear elasticity. Edinburgh, UK, 25-28 March 2024. Euromech colloquium 630: Nonlinear Elasticity: Modelling of multi-physics and applications, a Euromech/ICMS colloquium celebrating the 80th birthday of Prof. Ray Ogden, FRS.

- [C3] A Nobili. Compression induced localized instability in supported pre-stressed incompressible plates. Trento, Italy, 23 October 2023 2023. Workshop Advanced modelling of membrane structures, with a view to technological applications.
- [C4] A Nobili, T D'Antino, and C Signorini. Mechanical modeling and experimentation of brittle matrix textile reinforced composite systems. Palermo, Italy, 27–30 August 2023. Engineering Mechanics Institute (EMI).
- [C5] D Prikazchikov, J Kaplunov, and A Nobili. The edge wave on an elastic cylindrical shell. Delft, the Netherlands, 2–5 July 2023. XII International Conference on Structural Dynamics (EURODYN2023).
- [C6] A Nobili. Stroh/hamiltonian formulation for complex media. Trento, Italy, 18 April 2023. Invited talk on Trento PhD day.
- [C7] A Nobili and M Messori. Effective mechanical properties of 3d printed phbh scaffolds for biomedical applications. Palermo, Italy, 4–8 September 2022. XXV Conference of the Italian Association of Theoretical and Applied Mechanics (AIMETA).
- [C8] A Nobili and E Radi. Stroh formulation of strain-gradient elasticity. Galway, Ireland, 4–8 July 2022. European Solid Mechanics Conference (Euromech).
- [C9] A Nobili and C Signorini. Durability landscape of textile-reinforced mortar: spotlight on natural fibres subjected to harsh alkaline environment. Shenzhen, China, 10–14 December 2022 2022. The 15th International Conference on Fibre-Reinforced Polymers for Reinforced Concrete Structures (FRPRCS-15) and the 8th Asia-Pacific Conference on FRP in Structures (APFIS-2022).
- [C10] A Nobili. Wave propagation in complex media. Indore, India, 17 February 2022 2022. Invited talk on the 14th foundation day of IIT Indore on 17th February 2022 in the Department of Mathematics, Indian Institute of Technology Indore under the International Affairs Outreach Program. (online).
- [C11] A Nobili. Stroh/hamiltonian formulation for complex media. Perugia, Italy, 4–5 November 2022. Signorini Days, on the occasion of the 70th birthday of Prof. Maurizio Vianello (Polimi).
- [C12] D Prikazkicov and A Nobili. Euromech colloquium 626 - mechanics of high-contrast elastic composites. Keele, UK, 6–8 September 2021. European mechanics society.
- [C13] A Nobili. Wave propagation in microstructured media for nondestructive testing.. XLIX International Summer School – Conference Advanced Problems in Mechanics (APM2021), 21-25 June 2021. Keynote lecture within the mini-workshop "Extreme Loading on Structures".
- [C14] C Signorini, V Volpini, and A Nobili. Long-term performance of natural fabrics in inorganic matrix thin composite systems (ferro13). Lyon, France, 21-23 June 2021. 13th international symposium on ferroce-ment and thin fiber reinforced inorganic matrices.
- [C15] A Nobili, C Signorini, and V Volpini. Experimental and theoretical investigation of the mechanical properties of phbh biopolymer parts produced by fused deposition modeling. Ischia, Italy, 5-9 Sept 2021. 10th International conference on Times of Polymers and Composites.
- [C16] A Nobili, C Signorini, and V Volpini. Cracks in couple-stress materials. Turin, Italy, 26-31 May 2021. 26th International Conference on Fracture and Structural Integrity - European Structural Integrity Society.
- [C17] A Nobili and E Radi. Diffraction and reflection of antiplane shear waves in a cracked microstructured material. Trondheim, Norway, 27 Sept. 2021 2021. 7th International Conference on Crack Path - European Structural Integrity Society.
- [C18] A Nobili. Modello asintotico vicino alla risonanza per la propagazione di onde in un mezzo piano ortorombico. Arezzo (Italy), 24-25 January 2019. 1st Signorini Days. On occasion of Prof.K.R. RAJAGOPAL honoris doctorate.
- [C19] A Nobili. Shear wave pattern in the elastodynamic of a cracked half-space with microstructure. Oberwolfach, 3-9 March 2019. MFO Mini-workshop: Mathematical aspects of Nonlinear Wave Propagation in Solid Mechanics. Ref.nr. 1910a.

- [C20] E Radi, A Nobili, and G Mishuris. Time-harmonic analysis of antiplane crack in couple stress elastic materials. In *RECENT ADVANCES IN MECHANICS OF SOLIDS AND STRUCTURES RAMSS-2019, Symposium in honour of Professor Davide Bigoni's 60th birthday*, 6-7 June 2019.
- [C21] A Nobili and E Radi. Antiplane shear waves induced by reduced traction waves applied at the crack faces in a couple stress elastic material. Thessaloniki (Greece), 22-25 September 2019. 12 th HSTAM International Congress on Mechanics.
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- [C23] C Signorini, A Nobili, A Sola, and M Messori. Influence of epoxy dilution on the mechanical performance of epoxy-coated glass textile reinforced mortar (GTRM) composites: an optimal approach. Lisbon (Portugal), 1-4 July 2019. MECHCOMP 2019, 5th International Conference on Mechanics of Composites.
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