

CURRICULUM VITAE

Prof. *Angelo Marcello TARANTINO*

PERSONAL WEB PAGE:

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Director of the Research Interdepartmental Center for Constructions and Environment, CRICT-Unimore

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NUMBER OF PUBLICATIONS AND DISSEMINATION:

72 Publications on International Refereed Journals

H-INDEX 20 in ISI Web of Knowledge, 19 in SCOPUS, 818 SCOPUS citations, 70 citations for the most cited paper.

CURRENT ACADEMIC POSITION AND AFFILIATIONS:

2004-present Full Professor of “Scienza delle Costruzioni” (SSD ICAR/08), University of Modena and Reggio Emilia;

2007-present Director of the School of Civil Engineering at the University of the San Marino Republic.

2008-2016 President of Course of Civil Engineering at the University of the Modena and Reggio Emilia University.

A. GENERAL

November 2, 1985, he was graduated in civil engineering from the University of Ancona, Italy.

March 1987, he was admitted to the PhD in Structural Engineering at the University of Florence, Italy, and supports the final examination on October 17, 1990, with a thesis entitled "Applications of the theory of fracture propagation of seismic waves," with tutors Professors Giovanni Menditto and Piero Villaggio.

He was selected in a competition for PhDs of the European community for a Research Fellowship in the program: Human capital and mobility - Commission of the European Communities, HCM n. ERB CHBG CT 920 061, october 1994 - march 1995, Besancon, France.

November 22, 1995, he is assistant professor at the Faculty of Engineering, University of Ancona.

With italian D.M. August 6, 1998, he was proclaimed the winner, with a unanimous judgment, of the national competition for associate professor, and on November 1998 he took the service at the Faculty of Engineering of the University of Modena and Reggio Emilia.

With Rector's Decree no. 447 of 18 May 2001, he was proclaimed the winner of the competition for full professor at the Faculty of Engineering of the University of Modena and Reggio Emilia.

Since 2004 he is referent of the degree courses in Civil Engineering and Building Engineering at the Military Academy of Modena.

Since 2007 he is the Director of the School in Civil Engineering at the University of the San Marino Republic.

On November 29, 2008, he was elected President of the Degree Course in Civil Engineering at the University of Modena and Reggio Emilia.

B. TEACHING

In the period 1985-1988, Prof. Tarantino has taught at the Institute of Science and Technology of Construction at the Ancona University, collaborating mainly to the course of “Scienza delle costruzioni”.

Since 1988 he is teacher of 'Scienza delle Costruzioni' (9 credits) and Theory of Elasticity (9 credits) for undergraduate and master degree in Civil Engineering at the University of Modena and Reggio Emilia.

Since 2007 Prof. Tarantino holds the same teachings at the University of Repubblica of San Marino.

He has conducted research and study abroad (Northwestern University, Evanston, USA 1986; Besançon, Université de Franche-Comté, France 1995; University College Dublin, Ireland in 1997 and 1999, Université Lyon, France in 1998, Fuzhou University, China in 2015, 2016, etc.).

C. RESEARCH

The entire research carried out by Prof. Tarantino can be subdivided into the following topics: viscoelasticity; fracture mechanics and dynamic propagation of cracks; bifurcation theory, nonlinear dynamics and chaos; piezoelectricity and magnetoelasticity; contact problems; equilibrium, bifurcation and stability in finite elasticity; fiber-reinforced concrete and earthquake engineering.

He is author of about 100 scientific works, including 73 international journals, written mainly at a single name, and of four textbooks and two international patents.

He was reviewer of scientific papers for several international journals, including:

- Quarterly Journal of Mechanics and Applied Mathematics;
- International Journal of Solids and Structures;
- International Journal for Numerical Methods in Engineering;
- ACI Journal;
- Structural Engineering and Mechanics;
- Journal of Elasticity;
- ASCE Journal;
- International Journal of Engineering Science;
- International Journal of Non-Linear Mechanics;
- IMA Journal of Applied Mathematics;
- Engineering Fracture Mechanics;
- Mathematical Reviews;
- International Journal of Damage Mechanics;
- Advances in Mathematical Physics;
- Mathematics and Mechanics of Solids;
- Journal of Engineering Mechanics, ASCE;
- SIAM Journal on Applied Mathematics;
- Engineering Failure Analysis,
- Composite Part B: Engineering;
- Advances in Structural Engineering.

He was reviewer of the research projects on behalf of the Italian Ministry of Education (PRIN, FIRB, Future in Research) and the Ministry of Economic Development (Fit).

Patents

He is inventor of the patent no. BO2500U000074 filed on 28/11/2005, relating to polypropylene fibers for fiber-reinforced structural concrete. Next international patent no. 06124764.9-2303.

He is inventor of the patent no. ITBO2120496/7/8 (three versions) filed on 21/03/2014, entitled: mixed layer cemented for road.

Research Projects and Conventions

- Research projects funded by Miur ex 60%.
- Workshop Emilia - Laborator Rubes on networks of expertise in mechanics - funded by POR 2000-2006, ESF Ob. 3 of the Emilia-Romagna Region.
- Cofin 2004 Mathematical models for the dynamics of DNA.
- Research Project 2005. Project of industrial fibers for concrete, Industrial Partner Wires & Shapes.
- Research Contract July 2006. Polymeric fibers innovative for the construction of fiber-reinforced concrete. Wires & Shapes.
- Research contract in September 2007. Covering modular columns of stone. Kerbell.
- Contract Research November 2007. Mortars and grouts and microstructured fiber reinforced for structural and earthquake-resistant. Three-year research program. Saint Gobain Weber.
- Contract Research December 2007 (RSM). Technology solutions for applications of fiber-reinforced concrete. Wires & Shapes.
- Research contract in February 2008. Automatic analysis of the interaction between grout and structures. Aztec Informatica.
- PRRIITT Measure 3.1 Action A Industrial research projects and pre-competitive development specified in the notice of 7:07:08 DGR n.1043 / 2008. Project No. 193, determines executive n.5064 of June 9, 2009. Project: Mixtures cold semifredde for fiber-reinforced asphalt, Cesare Turchi Ltd.
- PRRIITT Measure 3.1 Action A Industrial research projects and pre-competitive development specified in the notice of 7:07:08 DGR n.1043 / 2008. Project: Polymer fibers intended for reinforcing gallery, Wires & Forms Ltd.
- Research contract in February 2010. Research and tests on a pavement in fiber-reinforced concrete for tunnels of the Quadrilateral Umbria-Marche. Grandi Lavori Fincosit.
- Research contract in May 2010. In the field of seismic risk reduction in the Modena area. City of Modena.
- Research contract in July 2010. Seismic nursing home 'Villa Green' of Reggio Emilia.
- Research contract in September 2011. In the field of seismic risk reduction in the Modena - continuation. City of Modena.

- Contract Research October 2012. Mechanical characterization of an aggregate composed of quartz sands and epoxy resins. Biodesign LTD.
- Research contract in September 2012. In the field of seismic risk reduction in the Modena - continuation. City of Modena.
- Research contract in February 2012. Evaluation of the seismic vulnerability of the building located in Street Fonteraso 15 - Modena, STB tributaries Po river. Region ER.
- Research contract in September 2013. In the field of seismic risk reduction in the Modena - continuation. City of Modena.
- Contract Research October 2013. Evaluation of the seismic vulnerability of the building in Street Santo Stefano 25 - Reggio Emilia, STB tributaries Po river. Region ER.
- Research contract in December 2014. Assessment of seismic vulnerability of the building in Street Santa Franca 38 - Piacenza, STB tributaries Po river. Region ER.
- Research contract in December 2016. Mortars and concretes with additives derived from OTF. A.A.S.S. Republic of San Marino, Environmental Research r.s.l.
- Research contract July 2017. Characterization and reuse of the clayey raw materials resulting from the quarrying of the rocks from which the aggregates are obtained. Cabe S.r.l.
- Research contract July 2017. Characterization and reuse of the washing lines deriving from the production of aggregates. Cabe S.r.l.
- Research contract September 2017. Mechanical characterization of reinforced masonry panels. Kerakoll S.p.a.
- Prin2015. Local unit responsible.

List of publications

International papers

1. *Homogeneous structures subjected to successive structural system changes* - **ASCE Journal of Engineering Mechanics**, vol. 116, n. 8, 1990, pp. 1723-1732 (with L. Dezi e G. Menditto).
2. *Time dependent analysis of concrete structures with variable structural system* - **ACI Materials Journal**, vol.88, n. 3, 1991, pp. 320-324 (with L. Dezi).
3. *Applicazioni di teoria della frattura alla propagazione delle onde sismiche* - Tesi di dottorato, 1991, pp.117 (relatore prof. P. Villaggio).
4. *Prevention of stress relaxation in viscoelastic structures* - **ASCE Journal of Struct. Engrg.**, vol. 118, n. 7, 1992, pp. 1840-1852.
5. *Creep effects in composite beams with flexible shear connectors* - **ASCE Journal of Struct. Engrg.**, vol. 118, n. 8, 1992, pp. 2063-2081 (with L. Dezi).

6. *Viscoelastic heterogeneous structures with variable structural system* - **ASCE Journal of Engineering Mechanics**, vol. 119, n. 2, 1993, pp. 238-250 (with L. Dezi e G. Menditto).
7. *Simplified creep analysis of composite beams with flexible shear connectors* - **ASCE Journal of Struct. Engrg.**, vol. 119, n. 5, 1993, pp. 1484-1497 (with C. Ianni e L. Dezi).
8. *The contact problem for a class of orthotropic elastic solids* - **Journal of Elasticity**, vol. 33, pp. 167-190, 1993 (with G. Menditto e L. Quattrini).
9. *Nonasymptotic solution for antiplane cracks* - **Meccanica**, vol. 27, n. 4, 1992, pp. 307-310.
10. *Creep in continuous composite beams. Part I: Theoretical treatment* - **ASCE Journal of Struct. Engrg.**, vol. 119, n. 7, 1993, pp. 2095-2111 (with L. Dezi).
11. *Creep in continuous composite beams. Part II: Parametric study* - **ASCE Journal of Struct. Engrg.**, vol. 119, n. 7, 1993, pp. 2112-2133 (with L. Dezi).
12. *Structural system changes by means of forcedly applied restraints* - **ASCE Journal of Engineering Mechanics**, vol. 120, n. 2, 1994, pp.392-399.
13. *The chaotic resonance* - **European Journal of Mechanics, A-Solids**, vol. 13, n. 5, 1994, pp.857-866 (with S. Lenci e G. Menditto).
14. *Influence of the excitation shape in the classical Duffing equation* - **European Journal of Mechanics, A-Solids**, vol. 13, n. 4, pp. 569-579, 1994 (with S. Lenci).
15. *Method for analyzing complex viscoelastic structures* - **ASCE Journal of Engineering Mechanics.**, vol. 121, n. 2, 1995, pp.187-202 (with G. Chienna e L. Dezi).
16. *Time-dependent analysis of prestressed composite beams.-* **ASCE Journal of Struct. Engrg.**, vol. 121, n. 4, 1995, pp.621-633 (with L. Dezi e G. Leoni).
17. *A direct formulation for the stretch tensor* - **European Journal of Mechanics, A-Solids**, vol. 14, n. 1, 1995, pp.155-162 (with P. Governatori e G. Menditto).
18. *Bifurcation and chaos in a bilinear constrained column. Part I: Stability analysis and nonlinear dynamics* - **European Journal of Mechanics, A-Solids**, vol. 14, n. 5, 1995, pp.773-778 (with S. Lenci).
19. *Bifurcation and chaos in a bilinear constrained column. Part II: Chaotic dynamics* - **European Journal of Mechanics, A-Solids**, vol. 14, n. 5, 1995, pp.789-806 (with S. Lenci).
20. *Modified AAEM method for composite beams with post-connected slab* - **ASCE Journal of Struct. Engrg.**, vol. 121, n. 11, 1995, pp.1726-1729 (with L. Dezi e G. Leoni).
21. *Algebraic methods for time-dependent analysis of composite beams* - **ASCE Journal of Struct. Engrg.**, vol. 122, n. 4, 1996, pp. 423-430 (with L. Dezi e G. Leoni).
22. *Dynamics of shallow elastic arches. Part I: Chaotic response of harmonically shaped arches* - **European Journal of Mechanics, A-Solids**, vol. 15, n. 3, 1996, pp.513-528 (with S. Lenci).

23. *Dynamics of shallow elastic arches. Part II: Optimal forms* - **European Journal of Mechanics, A-Solids**, vol. 15, n. 3, 1996, pp.529-543 (with S. Lenci).
24. *Chaotic dynamics of an elastic beam resting on a winkler-type soil* - **Chaos, Solitons and Fractals**, vol. 4, n. 10, 1996, pp.1601-1614 (with S. Lenci).
25. *Creep and shrinkage analysis of composite beams* - **Progress in Structural Engineering and Materials**, vol. 1, n. 2, 1998, pp.170-177 (with L. Dezi e G. Leoni).
26. *Creep analysis for structures with variable statical scheme: a unified approach* - **ACI Journal SP 194**, 2000, pp. 187-213 (with M.A. Chiorino e L. Dezi).
27. *Electro-elastic interactions and second order anisotropic constitutive equations* - **Meccanica**, vol. 31, 1996, pp.657-664 (with A. Danescu).
28. *Thin hyperelastic sheets of compressible material: field equations, Airy stress function and an application in fracture mechanics* - **Journal of Elasticity**, vol. 44, 1996, pp.37-59.
29. *Homoclinic and heteroclinic bifurcations in the nonlinear dynamics of a beam resting on an elastic substrate* - **International Journal of Non-Linear Mechanics**, vol.34, 1999, pp.615-632 (with S. Lenci).
30. *The singular equilibrium field at the notch-tip of a compressible material in finite elastostatics* - **ZAMP (J. of Appl. Math. and Phys.)**, vol. 48, 1997, pp.370-388.
31. *On extreme thinning at the notch-tip of a neo-hookean sheet* - **QJMAM (Quart. J. of Mech. and Appl. Math.)**, vol. 51, Pt.2, 1998, pp.179-190.
32. *Anisotropic polynomial constitutive equations for electroelastic crystals* - **ZAMP (J. of Appl. Math. and Phys.)**, vol. 48, 1997, pp.857-873, (with A. Danescu).
33. *Nonlinear fracture mechanics for an elastic Bell material* - **QJMAM (Quart. J. of Mech. and Appl. Math.)**, vol. 50, Pt.3, 1997, pp.435-456.
34. *The singular wedge problem in the nonlinear elastostatic plane stress theory* - **Quarterly of Applied Mathematics**, vol. 57, n. 3, 1999, pp.433-451.
35. *On the finite motions generated by a mode I propagating crack* - **Journal of Elasticity**, vol. 57, 1999, pp.85-103.
36. *Dynamic crack propagation in sheets of compressible neo-Hookean material under general in-plane loading* - **Quarterly of Applied Mathematics**, vol. 59, n. 3, 2001, pp.479-492.
37. *Time-dependent analysis of shear-lag effect in composite beams* - **ASCE Journal of Engineering Mechanics**, vol. 127, n. 1, 2001, pp.71-79 (with L. Dezi, F. Gara e G. Leoni).
38. *Asymmetric equilibrium configurations of symmetrically loaded isotropic square membranes*. **Journal of Elasticity**, vol. 69, 2003, pp.73-97.
39. *Crack propagation in finite elastodynamics*. **Mathematics and Mechanics of Solids**, vol. 10, 2005, pp. 577-601.

40. *Unilateral contact problem for aging viscoelastic beams.* **ASCE Journal of Engineering Mechanics.**, vol. 131, n. 12, 2005, pp.1229-1238 (with A. Nobili).
41. *A hard ferromagnetic and elastic beam-plate sandwich structure.* **ZAMP (J. of Appl. Math. and Phys.)**, vol. 58, 2007, pp.137-160 (with A. Nobili).
42. *Finite homogeneous deformations of symmetrically loaded compressible membranes.* **ZAMP (J. of Appl. Math. and Phys.)**, vol. 58, 2007, pp. 659-678 (with A. Nobili).
43. *Asymmetric equilibrium configurations of hyperelastic cylindrical bodies under symmetric dead loads.* **Quarterly of Applied Mathematics.** vol. 64, 2006, pp. 605-615.
44. *Constitutive branching analysis of cylindrical bodies under in-plane equibiaxial dead-load tractions.* **International Journal of Non-Linear Mechanics**, vol. 41, 2006, pp. 958-968 (with A. Nobili).
45. *Magnetostriction of a hard ferromagnetic and elastic thin-film structure.* **Mathematics and Mechanics of Solids**, vol. 13, 2008, pp. 95-123. (with A. Nobili).
46. *Homogeneous equilibrium configurations of a hyperelastic compressible cube under equitriaxial dead-load tractions -* **Journal of Elasticity**, vol. 92, 2008, pp. 227-254.
47. *Performance evaluation of a polypropylene-based draw-wired fibre for concrete structures.* **Construction and Building Materials**, vol. 28, 2012, pp. 798-806 (with L. Lanzoni e A. Nobili).
48. *Experimental investigation on fibre-reinforced cement-treated materials using reclaimed asphalt.* **Construction and Building Materials**, vol. 38, 2013, pp. 491-496 (with A. Grilli e M. Bocci).
49. *Countermeasures Assessment of Liquefaction-Induced Lateral Deformation in a Slope Ground System.* **Journal of Engineering**, vol. 2013, Article ID 183068, 9 pages, 2013. DOI: 10.1155/2013/183068 (with D. Forcellini).
50. *Experimental investigation and monitoring of a polypropylene-based fiber reinforced concrete road pavement.* **Construction and Building Materials**, vol. 47, 2013, pp. 888-895 (with L. Lanzoni e A. Nobili).
51. *Equilibrium paths of a hyperelastic body under progressive damage.* **Journal of Elasticity**, vol. 114, 2014, pp. 225-250.
52. *Liquefaction-Induced Lateral Deformations Computational Assessment during Tohoku Earthquake.* **ISRN Civil Engineering**, vol. 2013, Article ID 408961, 8 pages, 2013. <http://dx.doi.org/10.1155/2013/408961> (with F. Della Bartola, D. Forcellini).
53. *Damaged hyperlastic membranes.* **International Journal of Non-Linear Mechanics**, vol. 60, 2014, pp. 9-22 (with L. Lanzoni).
54. *Equilibrium configurations and stability of a damaged body under uniaxial tractions.* **ZAMP (J. of Appl. Math. and Phys.)**, vol. 66(1), 2015, pp.171-190 (with L. Lanzoni).

55. *Assessment of stone columns as a mitigation technique of liquefaction-induced effects during Italian earthquakes (May 2012)*. **The Scientific World Journal**, vol. 2014, Article ID 216278, 8 pages. <http://dx.doi.org/10.1155/2014/216278> (with D. Forcellini).
56. *Pseudo-spectral methods in one-dimensional magnetostriction* - **Meccanica**, vol. 50, 2015, pp. 99-108 (with A. Nobili).
57. *Concrete beams stiffened by polymer-based mortar layers: experimental investigation and modelling*. **Construction and Building Materials**, vol. 105, 2016, pp. 321-335 (with L. Lanzoni, M. Soragni, M. Viviani).
58. *A simple nonlinear model to simulate the localized necking and neck propagation*. **International Journal of Non-Linear Mechanics**, vol. 84, 2016, pp. 94-104 (with L. Lanzoni).
59. *Orthotropic elastic substrate covered by thin films*. **Journal Strain Analysis**, vol. 51(4), 2016, pp. 256-269 (with F.O. Falope, L. Lanzoni, E. Radi).
60. A.M. Tarantino, J. Kaplunov, R. Luciano, C. Majorana, T.C. Rousakis, K. William. *Structural Modelling at the Micro-, Meso-, and Nanoscales*. **Modelling and Simulation in Engineering**, Vol. 2017, article ID 3504949, <http://doi.org/10.1155/2017/3504949>.
61. L. Lanzoni, A.M. Tarantino. *Finite anticlastic bending of hyperelastic solids and beams*. **Journal of Elasticity**, vol. 131, 2018, pp. 137-170. DOI 10.1007/s 10659-017-9649-y.
62. J. Xue, D. Lavorato, A.V. Bergam, J. Wu, Y. Huang, B. Chen, C. Nuti, A.M. Tarantino, B. Briseghella, G.C. Marano, S. Santini. New solutions for rapid repair and retrofit of RC bridge piers. **Rpee**, Série III, n. 4, 2017, pp. 105-112.
63. G.C. Marano, M. Pellicciari, T. Cuoghi, B. Briseghella, D. Lavorato, A.M. Tarantino. Degrading Bouc-Wen model parameters identification under cyclic load. **International Journal of Geotechnical Earthquake Engineering (IJGEE)**, vol. 8(2), 2017, pp. 60-81.
64. V. Savino, L. Lanzoni, A.M. Tarantino, M. Viviani. Simple and effective models to predict the compressive and tensile strength of HPFRC as the steel fiber content and type changes. **Composites Part B: Engineering**, vol. 137, 2018, pp. 153-162.
65. G. Barozzi, N. Cosentino, L. Lanzoni, A.M. Tarantino. Safety assessment of historic timber structural elements. **Case Studies in Construction Materials**, vol. 8, 2018, pp. 530-541.
66. M. Pellicciari, G. C. Marano, T. Cuoghi, B. Briseghella, D. Lavorato and A. M. Tarantino. Parameter identification of degrading and pinched hysteretic systems using a modified Bouc–Wen model. **Structure and Infrastructure Engineering**, vol. 14, 2018, pp. XX-XX. doi.org/10.1080/15732479.2018.1469652
67. F.O. Falope, L. Lanzoni, A. M. Tarantino. Modified hinged beam test on steel fabric reinforced cementitious matrix (SFRCM). **Composites Part B: Engineering**, vol. 146, 2018, pp. 232-243.
68. F.O. Falope, L. Lanzoni, A. M. Tarantino. Double lap shear test steel fabric reinforced cementitious matrix (SFRCM): Experimental test and bond modelling. **Composite Structures**, vol. 201, 2018, pp. 503-513.

69. D.M. Barbieri, B. Chen, E. Mazzarolo, B. Briseghella, A. M. Tarantino. Longitudinal Joint Performance of a Concrete Hollow Core Slab Bridge. **Transportation Research Record: Journal of the Transportation Research Board**, 2018. doi.org/10.1177/0361198118781653
70. V. Savino, L. Lanzoni, A.M. Tarantino, M. Viviani. Tensile Constitutive Behaviors of FR mortars and HPFRCs. **Construction and Building Materials**, vol. 186, 2018, pp. 525-536.
71. J. Xue, D. Lavorato, A.V. Bergam, C. Nuti, B. Briseghella, G.C. Marano, T. Ji, I. Vanzi, A.M. Tarantino, S. Santini. Severely damaged reinforced concrete circular columns repaired by turned steel rebar and high-performance concrete jacketing with steel or polymer fibers. **Applied Sciences** n. 8, 2018, 1671.
72. V. Savino, L. Lanzoni, A.M. Tarantino, M. Viviani. An extended model to predict the compressive, tensile and flexural strengths of HPFRCs and UHPFRCs: Definition and experimental validation. **Composites Part B: Engineering**, vol. 163, 2019, pp. 681-689.

National and international conferences

- A1. *Creep in structures with variable structural system* - **Fourth Rilem International Symposium on Creep and Shrinkage of concrete: Mathematical Modeling** - august 26-29, 1986 - Northwestern University, Evanston, Illinois, USA (with L. Dezi e G. Menditto).
- A2. *Un nuovo problema nella teoria viscoelastica* - **Convegno Nazionale in ricordo di R. Baldacci e M. Capurso - Meccanica dei materiali e delle strutture**, Roma, 25-27 ottobre 1989, pp. 67-74 (with L. Dezi e G. Menditto).
- A3. *Sulla propagazione dinamica non uniforme di fessure in deformazione antipiana* - **Convegno su problemi di meccanica dei materiali e delle strutture**, Amalfi, 3-5 giugno 1991, pp. 325-340.
- A4. *Sul moto superficiale generato da un processo interno di frattura* - **Convegno AIMETA**, Trento 28 Settembre - 2 ottobre 1992, pp. 501-507.
- A5. *Viscoelastic structures with variable structural system* - **Concreep 5, Fifth RILEM International Symposium on Creep and Shrinkage on Concrete**, Barcelona, Spain, september 6-9, 1993, pp. 579-584 (with M.A. Chiorino e L. Dezi).
- A6. *Creep and Shrinkage analysis of composite beams* - **Concreep 5, Fifth RILEM International Symposium on Creep and Shrinkage on Concrete**, Barcelona, Spain, september 6-9, 1993, pp. 585-590 (with M.A. Chiorino e L. Dezi).
- A7. *Some characteristic properties of an asymmetric nonlinear elastic oscillator: left, full and right chaos* - **Convegno AIMETA**, Napoli 3-6 ottobre 1995, vol. 1, pp. 149-154 (with S. Lenci e G. Menditto).
- A8. *Bifurcation analysis of a column with nonlinear boundary conditions*-**Convegno AIMETA**, Siena 29 settembre - 3 ottobre, 1997, (with S. Lenci e G. Menditto).
- A9. *Finite-deformation analysis of the elastostatic field near the notch-tip of a compressible sheet*-**Convegno AIMETA**, Siena 29 settembre - 3 ottobre, 1997, (with S. Lenci).

A10. *Mutual effects between creep, connection deformability and shear-lag in steel-concrete composite bridges* – [Concreep-6@MIT](#), **Creep, Shrinkage and Durability Mechanics of Concrete and Other Quasi-Brittle Materials**, Cambridge (MA),USA, 20-22 august, 2001, pp. 785-790 (with F. Gara e G. Leoni).

A11. *Seismic assessment of a simple bridge-abutment model adopting a Performance-Based Earthquake Engineering approach* – **XIV Convegno Nazionale “Ingegneria Sismica in Italia”**- Bari, 18-22 settembre, 2011, pp. 34 (with A. Elgamal, D. Forcellini, J. Lu, K.R. Mackie). ISBN: 978 88 7522 040 2

A12. *A Parametric study on several bridge-abutment configurations adopting a Performance-Based Earthquake Engineering Methodology* – **Second international conference on performance-based design in earthquake geotechnical engineering**, may 28-30, 2012, Taormina, Italy, n. 4.01, (with A. Elgamal, D. Forcellini, J. Lu, K.R. Mackie). ISBN 978-88-555-3178-8.

A13. *Performance Based Seismic Assessment of Isolated Bridge Configurations on Deformable Soils* – **15th Word Conference on Earthquake Engineering**, 24-28 september 2012, Lisboa, Portugal (with A. Elgamal, D. Forcellini, J. Lu, K.R. Mackie), paper n. 260, Session Bridges.

A14. *Variational approach to generalized Timoshenko beam models based on the micropolar linear theory* - **Convegno AIMETA**, Genova 14 – 17 settembre, 2015, (with A.Nobili).

A15. *New solutions for rapid repair and retrofit of RC bridge piers* – **XII International Conference on Structural Repair and Rehabilitation**, 26-29 October, 2016, Porto, Portugal (con D. Lavorato, J. Wu, Y. Huang, J. Xue, A.V. Bergami, B. Briseghella, C. Nuti, S. Santini).

A16. *Seismic damaged chinese rc bridges repaired and retrofitted by rapid intervention to improve plastic dissipation and shear strength* – **16th Word Conference on Earthquake, 16WCEE 2017**, 9-13 January 2017, Santiago Chile (con D. Lavorato, A.V. Bergami, C. Nuti, B. Briseghella, S. Santini, Y. Huang, J. Xue), paper n. 1845.

A17. L. Lanzoni, E. Radi, A.M. Tarantino. Effective thermal properties of fibre reinforced materials. **Convegno AIMETA**, Salerno, 3- 7 settembre, 2017.

A18. A. Nobili, J. Kaplunov, E. Radi, A.M. Tarantino. On the edge-wave of a thin elastic plate supported by an elastic half-space. **Convegno AIMETA**, Salerno, 3- 7 settembre, 2017.

A19. D.M. Barbieri, B. Chen, E. Mazzarolo, B. Briseghella, A. M. Tarantino. Longitudinal Joint Performance of a Concrete Hollow Core Slab Bridge. Transportation Research Board 97th Annual Meeting Transportation Research Board. 2018. N. 18-00258.

A20. F.O. Falope, L. Lanzoni, A. M. Tarantino. Coactive stresses in MEMS and NEMS based on periodically bent crystals. First International Conference on Mechanics of Advanced Materials and Structures – ICMAMS, Torino, 17-20 June, 2018

Minor works

B1. *I metodi di calcolo approssimati per la soluzione di strutture soggette al cambiamento di schema statico* - **Giornale del Genio Civile** n. 7, 8, 9, 1988 (with L. Dezi e G. Menditto).

B2. *Sul calcolo della velocità di propagazione delle fessure nei materiali fragili* - **Giornale del Genio Civile** n. 7, 8, 9, 1989.

B3. *Espressioni approssimate per il coefficiente di invecchiamento e la funzione di rilassamento nell'analisi viscoelastica di strutture in calcestruzzo* - Atti del dipartimento del Politecnico di Torino, n. 32, Novembre 1991 (with G. Lacidogna). Con leggere modifiche e piccole aggiunte anche in "*Approximate expressions for the aging coefficient and the relaxation function in the viscoelastic analysis of concrete structures*"- **Materials and Structures**, rivista della RILEM, march 1996, Vol. 29, pagine da 131 a 140, ISSN: 1359-5997.

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