

ABRIDGED CURRICULUM VITAE OF EGIDIO RIZZI

(February 2025)

PERSONAL DATA

Egidio RIZZI
Born in Como (Italy)
Italian Citizen



ADDRESS

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Mechanics of Solids and Structures
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DEGREES

- High School Diploma, Technical School, Building Specialty, ITIS “Magistri Cumacini”, Como, June 1983.
- **Degree in Civil Engineering** (“Laurea”), Structural Address, Politecnico di Milano, April 10, 1990. Final grade: 100/100 “cum laude”. Laurea Thesis: “*Simulazione del comportamento viscoplastico di acciai ad alte temperature sotto carichi ciclici: modelli costitutivi e calcolo per elementi finiti*” (“*Simulation of viscoplastic behaviour of steel components at high temperature under cyclic load: constitutive models and finite element computations*”), Advisor: G. Maier; Co-Advisors: J. Donea and V. Renda (JRC, Ispra).
- State Exam (“Esame di Stato”) for the habilitation to exercise the Engineering Profession, Politecnico di Milano, II Session 1990.
- **Master of Science in Civil Engineering**, University of Colorado at Boulder, U.S.A., May 14, 1993. Grade Point Average: GPA = 4.0 over 4.0. Master Thesis: “*Localization analysis of damaged materials*”, Advisor: K. Willam.
- **Doctoral Degree in Structural Engineering** (“Dottorato di Ricerca in Ingegneria delle Strutture”), Politecnico di Milano, Dept. of Structural Engineering, February 28, 1995. Doctoral Thesis: “*Sulla localizzazione delle deformazioni in materiali e strutture*” (“*On strain localization in materials and structures*”), Advisors: G. Maier and K. Willam; defended in Rome on January 17, 1996 in front of the National Committee, which deliberated to formally confer the degree.

PROFESSIONAL AND RESEARCH EXPERIENCES

- (06/1989 - 05/1990) One-year stage at the Applied Mechanics Division of the Joint Research Centre (JRC), Commission of the European Communities, Ispra Establishment, Ispra (VA), Italy, c/o Dr. J. Donea and Eng. V. Renda, working on topics related to the Laurea Thesis.
- (06/1990 - 10/1991) Professional activity as consultant Civil Engineer in Como, Italy.
- (11/1991 - 02/1995) Doctoral Student in Structural Engineering, Dept. of Structural Engineering, Politecnico di Milano, Tutor: Prof. G. Maier.

- (01/1992 - 02/1993, 08/1993 - 12/1993, 08/1994 - 09/1994) Research Assistant at the University of Colorado at Boulder, Dept. of Civil, Environmental and Architectural Engineering, Boulder, Colorado, U.S.A., c/o Prof. K. Willam.
- (06/1995 - 12/1995) Post-Doctoral fellow HCM (Human Capital and Mobility) at the Institut de Mécanique de Grenoble, Laboratoire Sols, Solides, Structures, Grenoble, France, c/o Prof. B. Loret.
- (12/1995 - 10/1998) Appointed as **Assistant Professor** (“Ricercatore”) of Mechanics of Solids and Structures (“Scienza delle Costruzioni”) at **Politecnico di Milano, Faculty of Engineering (Milano Leonardo)**, Dept. of Structural Engineering.
- (1996) Selected in Brussels (open competition by titles and live interview) by the Commission of the European Communities for the reserve list of scientific agents of the Communities.
- (11/1998 - 10/2001) Appointed as **Associate Professor** of Mechanics of Solids and Structures (“Scienza delle Costruzioni”) at **Politecnico di Bari, Faculty of Engineering at Taranto**, Dept. of Civil and Environmental Engineering.
- (08/1999 - 01/2000) Visiting Fellow TMR (Training and Mobility of Researchers) at the Technische Universität Braunschweig, Institut für Metallphysik und Nukleare Festkörperphysik, Braunschweig, Germany, c/o Dr. P. Hähner and Prof. H. Neuhäuser.
- (10/2000 - 12/2000) Visiting Professor at the Technical University of Catalunya (UPC), School of Civil Engineering (ETSECCPB), Dept. of Geotechnical Engineering and Geo-Sciences, Barcelona, Spain, c/o Prof. I. Carol.
- (11/2001 - 09/2006) Appointed as **Associate Professor (tenure-track position)** of Mechanics of Solids and Structures (“Scienza delle Costruzioni”) at the **University of Bergamo, Faculty of Engineering (Dalmine)**, Dept. of Design and Technologies.
- (08/2005) **Habilitation** to cover the role of Full Professor of Mechanics of Solids and Structures (“Scienza delle Costruzioni”); national competition for two openings held at the University of Sassari, Faculty of Architecture, ended August 5, 2005.
- (10/2006 - 09/2009) Appointed as **Full Professor** of Mechanics of Solids and Structures (“Scienza delle Costruzioni”) at the **University of Bergamo, Faculty of Engineering (Dalmine)**, Dept. of Design and Technologies (call by the Faculty of Engineering July 19, 2006; position started October 1st, 2006).
- (10/2009 - present) Appointed as **Full Professor (tenure-track position)** of Mechanics of Solids and Structures (“Scienza delle Costruzioni”) at the **University of Bergamo, School of Engineering (Dalmine)**, Dept. of Engineering and Applied Sciences (position started October 1st, 2009).

MISCELLANEA

▽ Short stays at international research institutions:

- ◊ Technical University of Catalunya, Dept. of Geotechnical Engineering and Geo-Sciences, Barcelona, Spain, c/o Prof. I. Carol: April 29-May 2, 1993; June 4-11, 1998; July 3-13, 1999; September 17-22, 2001; May 8-17, 2003; August 23-29 and September 11-13, 2004; June 27-July 2, July 11-16 and July 26-August 7, 2005; July 31-August 14, August 27-September 2 and December 8-12, 2006; August 5-15, August 26-September 5 2007.
- ◊ Aristotle University of Thessaloniki, Laboratory of Mechanics and Materials, Thessaloniki, Greece, c/o Prof. E. Aifantis: September 8-12, 1995.
- ◊ Institut de Mécanique de Grenoble, Laboratoire Sols, Solides, Structures, Grenoble, France, c/o Prof. B. Loret: August 20-31, 1996; August 18-27 and September 1-7, 1997; January 2-24, 1999; September 24-26, 2006.
- ◊ Technical University of Budapest, Department of Civil Engineering Mechanics, Budapest, Hungary, c/o Prof. S. Kaliszky: May 28-June 1, 1998.

- ◇ Technical University of Lisbon, Instituto Superior Técnico, Department of Civil Engineering, Lisboa, Portugal, c/o Prof. J. Martins and Prof. F. Simões: July 9-15, 2002.
- ◇ Technische Universität Braunschweig, Institut für Metallphysik und Nukleare Festkörperphysik, Braunschweig, Germany, c/o Prof. H. Neuhäuser: March 3-5, 2004.
- ▽ **Mother Language:** *Italian*. **Spoken Dialect:** *Brianzolo*. Interested in foreign languages. Acquired some knowledge, also connected to the various stages abroad, in reading, oral and written form, of the following **Foreign Languages** (in chronological learning order): *English, French, German, Spanish, Catalan, Portuguese and Romanian* (these last two ones just in passive phase; did not really experience speaking and writing). Then, got stuck with *Modern Greek* and *Russian*.
- ▽ Since around 2003, developed a personal and scientific interest in *Ocular Biomechanics*, as connected to the natural methods for eye-sight improvement. Author of *Vision Charts* for training by fusion under convergence or divergence, published at <http://www.i-see.org/eyecharts.html> and available for direct pdf downloading format at http://www.i-see.org/rizzi_charts.pdf (2007) and http://www.i-see.org/rizzi_charts_readvertical.pdf (2017).
- ▽ Chartered Engineer registered in Como, since 1992. First inscription at Associazione Italiana di Meccanica Teorica e Applicata (AIMETA) in 1993. Member of Società Italiana di Scienza delle Costruzioni (SISCO), since foundation (2018).
- ▽ **Contributor** to the following **International Journals**:
 - Acta Materialia (Elsevier, The Netherlands);
 - Acta Mechanica (Springer, Switzerland);
 - Advanced Materials Research (Trans Tech Publications, Switzerland);
 - Applied Mechanics Reviews (ASME, USA);
 - Archive of Applied Mechanics (Springer, Switzerland);
 - Archives of Civil and Mechanical Engineering (Elsevier, Politechnika Wrocławska, Poland);
 - Archives of Computational Methods in Engineering (Springer, Switzerland);
 - Archives of Mechanics (Polish Academy of Sciences, Poland);
 - Bulletin of Earthquake Engineering (Springer, Switzerland);
 - Composites Science and Technology (Elsevier, The Netherlands);
 - Computational Materials Science (Elsevier, The Netherlands);
 - Computational Mechanics (Springer, Switzerland);
 - Computers and Structures (Elsevier, The Netherlands);
 - Earthquake Engineering and Engineering Vibration (Springer, Institute of Engineering Mechanics - IEM, China);
 - Earthquake Engineering and Structural Dynamics (Wiley, USA);
 - Engineering Structures (Elsevier, The Netherlands);
 - European Journal of Mechanics - A/Solids (Elsevier, The Netherlands);
 - Frattura ed Integrità Strutturale – Fracture and Structural Integrity (Italian Group of Fracture, Italy);
 - Infrastructures (MDPI, Switzerland);
 - International Journal of Architectural Heritage (Taylor and Francis, USA);
 - International Journal of Computational Methods (World Scientific Publishing Company, China);
 - International Journal of Engineering Science (Elsevier, The Netherlands);
 - International Journal of Masonry Research and Innovation (Inderscience, Switzerland);
 - International Journal of Mechanical Sciences (Elsevier, The Netherlands);
 - International Journal of Plasticity (Elsevier, The Netherlands);
 - International Journal of Solids and Structures (Elsevier, The Netherlands);
 - Journal of Civil Structural Health Monitoring (Springer, Switzerland);
 - Journal of Elasticity (Kluwer, The Netherlands);
 - Journal of Engineering Mechanics (ASCE, USA);
 - Journal of Optimization Theory and Applications (Springer, Switzerland);
 - Journal of the Mechanics and Physics of Solids (Elsevier, The Netherlands);
 - Journal of Vibration and Acoustics (ASME, USA);
 - Journal of Vibration and Control (SAGE, USA);
 - Materials Science and Engineering: A (Elsevier, The Netherlands);
 - Measurement Science and Technology (Institute of Physics - IOP, UK);
 - Meccanica (Springer, Switzerland);

- Mechanical Systems and Signal Processing (Elsevier, The Netherlands);
 - Metallurgia Italiana – International Journal of the Italian Association for Metallurgy (Associazione Italiana di Metallurgia, Italy);
 - Modelling and Simulation in Materials Science and Engineering (Institute of Physics - IOP, UK);
 - Physical Review B (The American Physical Society, USA);
 - Procedia Engineering (Elsevier, The Netherlands);
 - Smart Materials and Structures (Institute of Physics - IOP, UK);
 - Smart Structures and Systems (Techno-Press, Korea);
 - Soil Dynamics and Earthquake Engineering (Elsevier, The Netherlands);
 - Structural Control and Health Monitoring (Wiley, USA);
 - Structural Engineering and Mechanics (Techno-Press, Korea);
 - Structures (Elsevier, The Netherlands);
 - Wear (Elsevier, The Netherlands);
 - Wiadomości Konserwatorskie - Journal of Heritage Conservation (Stowarzyszenie Konserwatorów Zabytków - Association of Monument Conservators, Poland).
- ▽ **Reviewer** for the following scientific journals:
Acta Mechanica, Advances in Materials Science and Engineering, Advances in Mechanical Engineering, Advanced Engineering Materials, Applied Ocean Research, Archive of Applied Mechanics, Archives of Mechanics, ASCE J. of Materials in Civil Engineering, Asian J. of Control, Bulletin of Earthquake Engineering, Computational Materials Science, Computer Methods in Applied Mechanics and Engineering, Computers and Structures, Cryogenics, Developments in the Built Environment, Earthquake Engineering and Engineering Vibration, Earthquakes and Structures, Engineering Failure Analysis, Engineering Structures, European J. of Environmental and Civil Engineering, European J. of Finite Elements, European J. of Mechanics A/Solids, Frontiers of Structural and Civil Engineering, Geosciences, Indian J. of Engineering & Materials Sciences, Int. J. for Numerical and Analytical Methods in Geomechanics, Int. J. for Numerical Methods in Engineering, Int. J. of Architectural Heritage, Int. J. of Computer Applications in Technology, Int. J. of Masonry Research and Innovation, Int. J. of Material Forming, Int. J. of Pavement Research and Technology, Int. J. of Plasticity, Int. J. of Solids and Structures, Iranian J. of Science and Technology, Transactions of Civil Engineering, J. of Applied Mathematics and Computational Mechanics, J. of Constructional Steel Research, J. of Computational Methods in Sciences and Engineering, J. of Computational Science, J. of Engineering Mechanics (ASCE), J. of Earthquake Engineering, J. of Low Frequency Noise, Vibration and Active Control, J. of Manufacturing and Materials Processing, J. of Physics: Conference Series (IOP), J. of Physics D: Applied Physics, J. of Sound and Vibration, J. of the Mechanics and Physics of Solids, J. of Vibration and Acoustics (ASME), J. of Vibration and Control, J. of Zhejiang University-SCIENCE A (JZUS-A) - Applied Physics & Engineering, Materials, Materials and Structures, Mathematical Biosciences and Engineering, Measurement, Meccanica, Mechanics Based Design of Structures and Machines, Mechanics of Advanced Materials and Structures, Mechanics of Materials, Mechanics Research Communications, Mechanical Systems and Signal Processing, Mechanics Based Design of Structures and Machines: An International Journal, Modelling and Simulation in Materials Science and Engineering, Nonlinear Dynamics, Open Construction and Building Technology Journal, Petroleum Science, Procedia Engineering, Proceedings of the Royal Society A, Processes, Scientia Iranica, Simulation Modelling Practice and Theory, Smart Materials and Structures, Soil Dynamics and Earthquake Engineering, Steel Research International, Structural and Multidisciplinary Optimization, Structural Engineering and Mechanics, Structure and Infrastructure Engineering, Structures, The Open Construction & Building Technology Journal, Transportation Geotechnics.
- ▽ **Reviewer** of Book, Volume or Chapter for the following International Publishers:
Engineering and Environmental Sciences, CRC Press, Taylor & Francis Group; IGI Global.
- ▽ **Advisor** of 35 Laurea Theses and 7 Doctoral Dissertations.
- ▽ Italian project leader of an Italy-Spain research exchange program between UniBG and UPC Barcelona (2005-2007).
- ▽ Member of the Scientific Committee of XXII Congresso AIMETA (Associazione Italiana di Meccanica Teorica e Applicata), Genova, 14-17 Settembre 2015.

- ▽ Member of Board of Teachers of Doctoral Programme:
 - in Engineering of Civil and Mechanical Structural Systems, University of Trento/University of Bergamo, 2006/2007-2012/2013.
 - in Engineering and Applied Sciences, University of Bergamo, 2013/2014-2023/2024.
 - in Sustainable Technologies for Industrial and Construction Engineering, University of Bergamo, 2024/2025-present.
- ▽ As referent for the University of Bergamo:
 - Local referent of Socrates/Erasmus programs with UPC Barcelona, Spain and University of Lisbon, Portugal, since 2003/2004; with TUCN Cluj Napoca, Romania, since 2017/2018; Erasmus referent for the civil engineering scientific-disciplinary sectors (ICAR/06-08-09).
 - Referent of “Istituto Lombardo di Scienze e Lettere”, Milano, since 2006;
 - Member of the Scientific Committee of “Centro Volta – Landau Network”, Como, since 2007.
 - Scientific referent for Frame Agreement with UniBG: RFI (Rete Ferroviaria Italiana), September 2017; TUCN (Technical University of Cluj Napoca, Romania), July 2018; CQU (University of Chongqing, China), July 2019.
- ▽ Institutional duties at the University of Bergamo:
 - For the Board of Laurea Courses in Building Engineering:
 - Responsible for incoming student orienting activities, 2008/2009-2012/2013;
 - President of the committee for the Student Plan of Studies, 2012/2013-2013/2014; then, 2018/2019-2023/2024, since 01/10/2018;
 - President of the Board of Laurea Courses (Bachelor + Master) in Building Engineering, 2018/2019-2020/2021 (since 01/10/2018); then 2021/2022-2023/2024 (since 01/10/2021).
 - For the School of Engineering:
 - Member of the Permanent Committee of the Engineering School, October 2014/December 2015;
 - Member of the Board as President of the Board of Laurea Courses in Building Engineering, October 2018/September 2024.
 - Vice-Director of the Department of Engineering and Applied Sciences, for the three-year academic period October 2015/September 2018; member of Dept. Board; referent of Research.

TEACHING

- ▷ Teaching Assistant of institutional courses of “*Mechanics of Solids and Structures*” (“*Scienza delle Costruzioni*”) and “*Mechanics of Materials and Fracture Mechanics*” (“*Meccanica dei Materiali e della Frattura*”) offered at Politecnico di Milano, Faculty of Engineering, to students in Aerospace, Civil, Electronic, Materials and Mechanical Engineering, in the academic years 1995/96, 1996/97, 1997/98.
- ▷ One of the Lecturers of the Permanent Education Program at Politecnico di Milano, course on: “*Computational Methods in Structural Engineering: Inelasticity, Damage, Fracture and Failure Analyses*” (“*Metodi di Calcolo dell’Ingegneria Strutturale: Analisi Anelastiche, a Danneggiamento, Frattura e Collasso*”), Dept. of Structural Engineering, October 6-9, 1998.
- ▷ Teacher of the Course “*Mechanics of Solids and Structures*” (“*Scienza delle Costruzioni*”) offered at Politecnico di Bari, Faculty of Engineering at Taranto, to students in Environmental Engineering, 1998/1999, 1999/2000, 2000/2001.
- ▷ Teacher of the Mini-Course (Doctoral Course) “*On the constitutive formulations of anisotropic elastic damage: Part I: Secant laws and damage-effect tensors. Part II: Dual orthotropic damage-effect tensors with complementary structures*” taught at the Dept. of Geotechnical Engineering and Geo-Sciences, Technical University of Catalunya (UPC), Barcelona, Spain, September 17–22, 2001, within a “Teaching Staff” visit of the Socrates/Erasmus program between UPC and Politecnico di Bari.
- ▷ One of the Lecturers of the Continuing Education Course: “*From Design to Finite Element Modeling of Structural Components*” (“*Dal disegno alla modellazione agli elementi finiti di componenti strutturali*”), Università degli studi di Bergamo, Facoltà di Ingegneria, Dalmine (June 20-21, 2002; June 18-20, 2003; June 30-July 2, 2004).

- ▷ Teacher of institutional courses offered at the University of Bergamo, School of Engineering (Dalmine), to students in Building Engineering, Mechanical Engineering, Management Engineering, from 2001/2002 to present:
 - “*Mechanics of Solids and Structures*” (“*Scienza delle Costruzioni*”);
 - “*Complements of Mechanics of Solids and Structures*” (“*Complementi di Scienza delle Costruzioni*”);
 - “*Dynamics, Instability and Anelasticity of Structures*” (“*Dinamica, Instabilità e Anelasticità delle Strutture*”), with English-taught course for the years 2011/2012-2016/2017.

Referent for the area Mechanics of Solids and Structures (“*Scienza delle Costruzioni*”) of teaching activities at the University of Bergamo, School of Engineering (Dalmine), from 2001/2002 to present, including:

- “*Tutoring of Mechanics of Solids and Structures*” (“*Tutoring di Scienza delle Costruzioni*”);
- “*Elearning of Mechanics of Solids and Structures*” (“*Elearning di Scienza delle Costruzioni*”);
- “*Mechanics of Solids and Structures*” (“*Scienza delle Costruzioni*”), Mechanical Engineering;
- “*Statics and Fundamentals of Mechanics of Solids and Structures*” (“*Statica e Fondamenti di Scienza delle Costruzioni*”);
- “*Computational Mechanics of Solids and Structures*” (“*Meccanica Computazionale dei Solidi e delle Strutture*”), with English-taught course since 2019/2020 (with R. Ferrari, since 2018/2019);
- “*Structural Monitoring*”, English-taught course (with R. Ferrari, since 2020/2021);
- “*Mechanics of Solids*” (“*Meccanica dei Solidi*”) (with R. Ferrari, since 2024/2025);

RESEARCH

Past and present research activities have been performed independently or as part of Academic and Industrial International Research Programs in the area of Mechanics of Materials and Structures.

Core original contributions have been along the following consolidated three main guidelines:

- Constitutive modeling of quasi-brittle materials: plasticity, elastic degradation and damage, multi-dissipation (e.g. multi-surface plasticity and elastoplastic coupling), multi-phase media (e.g. fully and partially fluid-saturated porous and fissured media), anisotropic elastic and inelastic behavior, orthotropic damage, composites (e.g. syntactic foams).
- Material instability phenomena: localization of inelastic strains and dissipation processes into narrow bands. Strain-softening localization: numerical and analytical derivations of strain localization characteristics. Strain-rate-softening localization (Portevin–Le Chatelier effect): theoretical and numerical modeling.
- Structural instability: computational techniques for the regularization of numerical responses of damaged materials (removal of mesh dependence induced by the appearance of strain localization) through fracture-energy-based regularization, non-local and second-order gradient damage, mixed load/displacement control (‘arc-length’) and special finite elements (e.g. with incompatible modes).

Further recent research themes developed also in the framework of Laurea and Doctoral Theses carried out at the University of Bergamo have been much focused on the area of Structures:

- Biomechanical modelling of the human corneal shell, with specific reference to the simulation of corneal refractive surgeries.
- Structural Analysis of Historic Construction, with specific reference to the modeling of the iron bridge of Paderno d’Adda (1889), the concrete bridge of Brivio (1917) the “Palazzetto dello Sport”, Roma (1957), by Pier Luigi Nervi.
- Formulations of non-linear computational tools for 3D truss-frame structures and cable-rib structures, with material non-linearity by Limit Analysis (evolutionary elastoplastic response; kinematic method of collapse evaluation) and with geometrical non-linearity by numerical integration for the modelization of “beam-column” elements with tapered cross-sections.
- Mechanical analysis of self-bearing modular structures.

- Statics of masonry arches based on Limit Analysis and on Discrete Element Method (DEM) modeling; lab building of low-scale experimental models.
- Simulation of masonry panel responses under shear induced by flat-jack testing.
- Vibration control in dynamics and earthquake engineering through the optimum tuning of Tuned Mass Damper (TMD) devices.
- Modeling of elastoplastic torsion tests on metal specimens at finite strain, accounting for the so-called Swift effect (axial length variation of the specimen); simulation of High Strain Rate phenomena, with reference also to industrial components “perforating gun” (cooperation with a local industrial partner).
- Analysis of tribological phenomena: experimental observation, modelling and inverse analysis of friction and heat exchange phenomena in hot rolling processes (cooperation with a local industrial partner).
- Parameter identification of the mechanical behaviour of metallic materials through procedures and algorithms of inverse analysis.
- Modal dynamic identification by output-only techniques in the Frequency Domain (Frequency Domain Decomposition) and in the Time Domain (Full Dynamic Compound Inverse Method), with specific reference to the seismic engineering field.
- Structural Health Monitoring (SHM) and Finite Element model updating by sensor Heterogeneous Data Fusion and Signal Processing/Denoising. Application to the analysis of historical Brivio Bridge (1917).
- Analysis of the static and dynamic (Moving Load) bending response of beams lying on a Winkler-like elastic support. Modeling and handling of Soil-Structure Interaction in various contexts (TMD tuning for seismic applications; Moving Load dynamics; seismic response of dams).

Gave thirty-nine research seminars or conference presentations at international and national institutions.

PUBLICATIONS

(A) Articles in Refereed International Journals:

- [A.1] CAROL, I., RIZZI, E., WILLAM, K. (1994), “A unified theory of elastic degradation and damage based on a loading surface”, **International Journal of Solids and Structures**, 31(20), p. 2835-2865, DOI: 10.1016/0020-7683(94)90072-8, ISSN: 0020-7683, Elsevier Science, Printed in Great Britain.
<https://www.sciencedirect.com/science/article/pii/0020768394900728>
- [A.2] GUZINA, B.B., RIZZI, E., WILLAM, K., PAK, R.Y.S. (1995), “Failure prediction of smeared crack formulations”, **Journal of Engineering Mechanics**, 121(1), p. 150-161, DOI: 10.1061/(ASCE)0733-9399(1995)121:1(150), ISSN: 0733-9399, ASCE, New York, USA.
[https://ascelibrary.org/doi/10.1061/\(ASCE\)0733-9399\(1995\)121:1\(150\)](https://ascelibrary.org/doi/10.1061/(ASCE)0733-9399(1995)121:1(150))
- [A.3] RIZZI, E., CAROL, I., WILLAM, K. (1995), “Localization analysis of elastic degradation with application to scalar damage”, **Journal of Engineering Mechanics**, 121(4), p. 541-554, DOI: 10.1061/(ASCE)0733-9399(1995)121:4(541), ISSN: 0733-9399, ASCE, New York, USA.
[https://ascelibrary.org/doi/abs/10.1061/\(ASCE\)0733-9399\(1995\)121:4\(541\)](https://ascelibrary.org/doi/abs/10.1061/(ASCE)0733-9399(1995)121:4(541))
- [A.4] RIZZI, E., MAIER, G., WILLAM, K. (1996), “On failure indicators in multi-dissipative materials”, **International Journal of Solids and Structures**, Special Issue in Memory of Juan Carlos Simo, 33(20-22), p. 3187-3214, DOI: 10.1016/0020-7683(95)00247-2, ISSN: 0020-7683, Elsevier Science, Printed in Great Britain.
<https://www.sciencedirect.com/science/article/abs/pii/0020768395002472>
- [A.5] LORET, B., RIZZI, E. (1997), “Anisotropic stiffness degradation triggers onset of strain localization”, **International Journal of Plasticity**, 13(5), p. 447-459, DOI: 10.1016/S0749-6419(97)00019-3, ISSN: 0749-6419, Elsevier Science, Printed in Great Britain.
<https://www.sciencedirect.com/science/article/abs/pii/S0749641997000193>

- [A.6] RIZZI, E., LORET, B. (1997), “Qualitative analysis of strain localization. Part I: Transversely isotropic elasticity and isotropic plasticity”, **International Journal of Plasticity**, 13(5), p. 461-499, DOI: 10.1016/S0749-6419(97)00021-1, ISSN: 0749-6419, Elsevier Science, Printed in Great Britain.
<https://www.sciencedirect.com/science/article/abs/pii/S0749641997000211>
- [A.7] LORET, B., RIZZI, E. (1997), “Qualitative analysis of strain localization. Part II: Transversely isotropic elasticity and plasticity”, **International Journal of Plasticity**, 13(5), p. 501-519, DOI: 10.1016/S0749-6419(97)00022-3, ISSN: 0749-6419, Elsevier Science, Printed in Great Britain.
<https://www.sciencedirect.com/science/article/abs/pii/S0749641997000223>
- [A.8] RIZZI, E., LORET, B. (1999), “Strain localization in fluid-saturated anisotropic elastic-plastic porous media”, **International Journal of Engineering Science**, 37(2), p. 235-251, DOI: 10.1016/S0020-7225(98)00058-5, ISSN: 0020-7225, Elsevier Science, Amsterdam, The Netherlands.
<https://www.sciencedirect.com/science/article/abs/pii/S0020722598000585>
- [A.9] LORET, B., RIZZI, E. (1999), “Strain localization in fluid-saturated anisotropic elastic-plastic porous media with double porosity”, **Journal of the Mechanics and Physics of Solids**, 47(3), p. 503-530, DOI: 10.1016/S0022-5096(98)00049-0, ISSN: 0022-5096, Elsevier Science, Amsterdam, The Netherlands.
<https://www.sciencedirect.com/science/article/abs/pii/S0022509698000490>
- [A.10] RIZZI, E., PAPA, E., CORIGLIANO, A. (2000), “Mechanical behavior of a syntactic foam: experiments and modeling”, **International Journal of Solids and Structures**, 37(40), p. 5773-5794, DOI: 10.1016/S0020-7683(99)00264-4, ISSN: 0020-7683, Elsevier Science, Amsterdam, The Netherlands.
<https://www.sciencedirect.com/science/article/abs/pii/S0020768399002644>
- [A.11] CORIGLIANO, A., RIZZI, E., PAPA, E. (2000), “Experimental characterization and numerical simulations of a syntactic foam/glass fibre composite sandwich”, **Composites Science and Technology**, 60(11), p. 2169-2180, DOI: 10.1016/S0266-3538(00)00118-4, ISSN: 0266-3538, Elsevier Science, Amsterdam, The Netherlands.
<https://www.sciencedirect.com/science/article/abs/pii/S0266353800001184>
- [A.12] CAROL, I., RIZZI, E., WILLAM, K. (2001), “On the formulation of anisotropic elastic degradation. I. Theory based on a pseudo-logarithmic damage tensor rate”, **International Journal of Solids and Structures**, 38(4), p. 491-518, DOI: 10.1016/S0020-7683(00)00030-5, ISSN: 0020-7683, Elsevier Science, Amsterdam, The Netherlands.
<https://www.sciencedirect.com/science/article/abs/pii/S0020768300000305>
- [A.13] CAROL, I., RIZZI, E., WILLAM, K. (2001), “On the formulation of anisotropic elastic degradation. II. Generalized pseudo-Rankine model for tensile damage”, **International Journal of Solids and Structures**, 38(4), p. 519-546, DOI: 10.1016/S0020-7683(00)00031-7, ISSN: 0020-7683, Elsevier Science, Amsterdam, The Netherlands.
<https://www.sciencedirect.com/science/article/abs/pii/S0020768300000317>
- [A.14] LORET, B., RIZZI, E., ZERFA, Z. (2001), “Relations between drained and undrained moduli in anisotropic elastic fluid-saturated porous media”, **Journal of the Mechanics and Physics of Solids**, 49(11), p. 2593-2619, DOI: 10.1016/S0022-5096(01)00070-9, ISSN: 0022-5096, Elsevier Science, Amsterdam, The Netherlands.
<https://www.sciencedirect.com/science/article/abs/pii/S0022509601000709>
- [A.15] PAPA, E., CORIGLIANO, A., RIZZI, E. (2001), “Mechanical behavior of a syntactic foam/glass fibre composite sandwich: experimental results”, **Structural Engineering and Mechanics**, 12(2), p. 169-188, DOI: 10.12989/sem.2001.12.2.169, ISSN: 1225-4568, Techno-Press, Yusong, Taejon, Korea.
<http://koreascience.or.kr/article/JAKO200121349888203.page>
- [A.16] RIZZI, E., CAROL, I. (2001), “A formulation of anisotropic elastic damage using compact tensor formalism”, **Journal of Elasticity**, 64(2-3), p. 85-109, 2002, DOI: 10.1023/A:1015284701032, ISSN: 0374-3535, Kluwer Academic Publisher, Dordrecht, The Netherlands.
<https://link.springer.com/article/10.1023/A:1015284701032>

- [A.17] HÄHNER, P., ZIEGENBEIN, A., RIZZI, E., NEUHÄUSER, H. (2002), “Spatiotemporal analysis of Portevin-Le Châtelier deformation bands: theory, simulation, and experiment”, **Physical Review B**, 65(13), Art. nr. 134109, 20 pages, DOI: 10.1103/PhysRevB.65.134109, ISSN: 1098-0121, The American Physical Society, USA.
<https://journals.aps.org/prb/abstract/10.1103/PhysRevB.65.134109>
- [A.18] CAROL, I., RIZZI, E., WILLAM, K. (2002), “An ‘extended’ volumetric/deviatoric formulation of anisotropic damage based on a pseudo-log rate”, **European Journal of Mechanics - A/Solids**, 21(5), p. 747-772, DOI: 10.1016/S0997-7538(02)01232-9, ISSN: 0997-7538, Elsevier Science, Amsterdam, The Netherlands.
<https://www.sciencedirect.com/science/article/abs/pii/S0997753802012329>
- [A.19] RIZZI, E., CAROL, I. (2003), “Dual orthotropic damage-effect tensors with complementary structures”, **International Journal of Engineering Science**, 41(13-14), p. 1445-1495, DOI: 10.1016/S0020-7225(03)00034-X, ISSN: 0020-7225, Pergamon, Elsevier Science Ltd., Oxford, England.
<https://www.sciencedirect.com/science/article/abs/pii/S002072250300034X>
- [A.20] HÄHNER, P., RIZZI, E. (2003), “On the kinematics of Portevin–Le Chatelier bands: theoretical and numerical modelling”, **Acta Materialia**, 51(12), p. 3385-3397, DOI: 10.1016/S1359-6454(03)00122-8, ISSN: 1359-6454, Pergamon, Elsevier Science Ltd., Oxford, England.
<https://www.sciencedirect.com/science/article/abs/pii/S1359645403001228>
- [A.21] RIZZI, E., HÄHNER, P. (2004), “On the Portevin-Le Chatelier effect: theoretical modeling and numerical results”, **International Journal of Plasticity**, 20(1), p. 121-165, 2003, DOI: 10.1016/S0749-6419(03)00035-4, ISSN: 0749-6419, Pergamon, Elsevier Science Ltd., Oxford, England.
<https://www.sciencedirect.com/science/article/abs/pii/S0749641903000354>
- [A.22] RIZZI, E., CAROL, I. (2007), “Secant stress/strain relations of orthotropic elastic damage with dual properties”, **Archives of Mechanics**, 59(2), p. 133-171, ISSN: 0373-2029, Polish Academy of Sciences, Warszawa, Poland.
<https://am.ippt.pan.pl/am/article/view/v59p133>
- [A.23] CAROL, I., RIZZI, E., WILLAM, K. (2008), “Discussion on the paper: Application of some anisotropic damage model to the prediction of failure of some complex industrial concrete structure [Pierre Badel, Vincent Godard, Jean-Baptiste Leblond, *Int. J. Solids Struct.* 44 (2007), 5848-5874]”, **International Journal of Solids and Structures**, 45(16), p. 4600-4602, DOI: 10.1016/j.ijsolstr.2008.03.021, ISSN: 0020-7683, Elsevier Science, Amsterdam, The Netherlands.
<https://www.sciencedirect.com/science/article/pii/S0020768308001224>
- [A.24] FERRARI, R., FACHERIS, M., RIZZI, E. (2010), “Structural analysis of the Paderno d’Adda Bridge (Italy, 1889)”, Periodical of **Advanced Materials Research** (ISSN: 1662-8985), 133-134, p. 459-465, DOI: 10.4028/www.scientific.net/AMR.133-134.459, Trans Tech Publications, Switzerland.
<https://www.scientific.net/AMR.133-134.459>
- [A.25] RIZZI, E., COCCHETTI, G., COLASANTE, G., RUSCONI, F. (2010), “Analytical and numerical analysis on the collapse mode of circular masonry arches”, Periodical of **Advanced Materials Research** (ISSN: 1662-8985), 133-134, p. 467-472, DOI: 10.4028/www.scientific.net/AMR.133-134.467, Trans Tech Publications, Switzerland.
<https://www.scientific.net/AMR.133-134.467>
- [A.26] COCCHETTI, G., COLASANTE, G., RIZZI, E. (2011), “On the analysis of minimum thickness in circular masonry arches. Part I: State of the art and Heyman’s solution. Part II: Present CCR solution. Part III: Milankovitch-type solution”, **Applied Mechanics Reviews**, September 01, 2011, Volume 64, Issue 5, Paper 050802 (Oct. 01, 2012), 27 pages, DOI: 10.1115/1.4007417, ISSN: 0003-6900, ASME, New York, USA.
<https://asmedigitalcollection.asme.org/appliedmechanicsreviews/article/64/5/050802/370002>
- [A.27] FERRARI, R., COCCHETTI, G., RIZZI, E. (2013), “Elastoplastic structural analysis of the Paderno d’Adda bridge (Italy, 1889) based on Limit Analysis”, **Wiadomości Konserwatorskie**

- **Journal of Heritage Conservation**, Nr. 34/2013, p. 28-35, ISSN: 0860-2395, YADDA identifier: <http://yadda.icm.edu.pl/baztech/element/bwmeta1.element.baztech-8f217dcc-e6b3-4dbf-b9d9-3e0c9b0da444>, <http://www.szk.pl/portal/nowy/kontener/wk.htm>, Stowarzyszenie Konserwatorów Zabytków - Association of Monument Conservators, Poland.
<http://yadda.icm.edu.pl/baztech/element/bwmeta1.element.baztech-8f217dcc-e6b3-4dbf-b9d9-3e0c9b0da444>
- [A.28] RIZZI, E., RUSCONI, F., COCCHETTI, G. (2014), “Analytical and numerical DDA analysis on the collapse mode of circular masonry arches”, **Engineering Structures**, Volume 60 (February 2014), p. 241-257, DOI: 10.1016/j.engstruct.2013.12.023, ISSN: 0141-0296, Elsevier B.V., Amsterdam, NL.
<https://www.sciencedirect.com/science/article/abs/pii/S014102961300610X>
- [A.29] ARIZZI, F., RIZZI, E. (2014), “Elastoplastic parameter identification by simulation of static and dynamic indentation tests”, **Modelling and Simulation in Materials Science and Engineering**, 22(3), 035017 (22 pages), April 2014, DOI: 10.1088/0965-0393/22/3/035017, Online ISSN: 1361-651X, Print ISSN: 0965-0393, IOPScience, Institute of Physics, IOP Publishing, UK.
<https://iopscience.iop.org/article/10.1088/0965-0393/22/3/035017>
- [A.30] GAMBIRASIO, L., RIZZI, E. (2014), “On the calibration strategies of the Johnson-Cook strength model: Discussion and applications to experimental data”, **Materials Science and Engineering: A**, Volume 610(29 July 2014), p. 370-413, DOI: 10.1016/j.msea.2014.05.006, ISSN: 0921-5093, Elsevier B.V., Amsterdam, NL.
<https://www.sciencedirect.com/science/article/abs/pii/S0921509314005875>
- [A.31] GAMBIRASIO, L., CHIANTONI, G., RIZZI, E. (2014), “On the consequences of the adoption of the Zarembka-Jaumann objective stress rate in FEM codes”, **Archives of Computational Methods in Engineering**, First published online: 12 October 2014, 23(1), p. 39-67, March 2016, DOI: 10.1007/s11831-014-9130-z, ISSN: 1134-3060 (print version), ISSN: 1886-1784 (electronic version), Springer Science + Business Media, Springer Netherlands.
<https://link.springer.com/article/10.1007/s11831-014-9130-z>
- [A.32] SALVI, J., RIZZI, E. (2014), “Optimum tuning of Tuned Mass Dampers for frame structures under earthquake excitation”, **Structural Control and Health Monitoring**, article first published online on Wiley Online Library (wileyonlinelibrary.com), 20 OCT 2014, 22(4), April 2015, p. 707-725, DOI: 10.1002/stc.1710, Print ISSN: 1545-2255, Online ISSN: 1545-2263, John Wiley & Sons, Inc., Chichester, West Sussex, UK.
<https://onlinelibrary.wiley.com/doi/abs/10.1002/stc.1710>
- [A.33] TAVASCI, A., ARIZZI, F., DINI, D., RIZZI, E. (2014), “Heat flux evaluation in high temperature ring-on-ring contacts”, **Wear**, Volumes 330-331(May-June 2015), Pages 320-326, Special Issue: 20th International Conference on Wear Materials, Article available online since 25 December 2014, Final version published online 6 June 2015, DOI: 10.1016/j.wear.2014.12.026, ISSN: 0043-1648, Elsevier B.V., Amsterdam, NL.
<https://www.sciencedirect.com/science/article/pii/S0043164814004062>
- [A.34] SALVI, J., RIZZI, E., RUSTIGHI, E., FERGUSON, N.S. (2015), “On the optimisation of a hybrid Tuned Mass Damper for impulse loading”, **Smart Materials and Structures**, 24(8) (2015) 085010 (15pp), DOI: 10.1088/0964-1726/24/8/085010, Published 2 July 2015, Online ISSN: 1361-665X, Print ISSN: 0964-1726, IOPScience, Institute of Physics, IOP Publishing Ltd, Printed in the UK.
<https://iopscience.iop.org/article/10.1088/0964-1726/24/8/085010>
- [A.35] PIOLDI, F., FERRARI, R., RIZZI, E. (2015), “Output-only modal dynamic identification of frames by a refined FDD algorithm at seismic input and high damping”, **Mechanical Systems and Signal Processing**, First online: 5 September 2015, Final version online: 10 November 2015, Volumes 68-69, February 2016, Pages 265-291, DOI: 10.1016/j.ymssp.2015.07.004, Online ISSN: 0888-3270, Elsevier B.V., Amsterdam, NL.
<https://www.sciencedirect.com/science/article/pii/S0888327015003234>
- [A.36] PIOLDI, F., FERRARI, R., RIZZI, E. (2015), “Earthquake structural modal estimates of multi-storey frames by a refined Frequency Domain Decomposition algorithm”, **Journal of Vibration**

- and Control**, First published online: October 8, 2015; Issue published: July 1, 2017: Volume 23, Issue 13, Pages 2037-2063, DOI: 10.1177/1077546315608557, Print ISSN: 1077-5463, Online ISSN: 1741-2986, jvc.sagepub.com, SAGE Publications, London, UK.
<https://journals.sagepub.com/doi/full/10.1177/1077546315608557>
- [A.37] GAMBIRASIO, L., RIZZI, E., (2015), “An enhanced Johnson-Cook strength model for splitting strain rate and temperature effects on lower yield stress and plastic flow”, **Computational Materials Science**, Final version published online: 23 December 2015, Volume 113, 15 February 2016, Pages 231-265, DOI: 10.1016/j.commatsci.2015.11.034, ISSN: 0927-0256, Elsevier B.V., Amsterdam, NL.
<https://www.sciencedirect.com/science/article/pii/S0927025615007417>
- [A.38] FROIO, D., RIZZI, E., (2015), “Analytical solution for the elastic bending of beams lying on a variable Winkler support”, **Acta Mechanica**, Published on line: 26 December 2015, Volume 227, Issue 4, April 2016, p. 1157-1179, DOI: 10.1007/s00707-015-1508-y, ISSN: 0001-5970 (Print), 1619-6937 (Online), Springer, Vienna, Austria.
<https://link.springer.com/article/10.1007/s00707-015-1508-y>
- [A.39] SALVI, J., RIZZI, E. (2016), “Closed-form optimum tuning formulas for passive Tuned Mass Dampers under benchmark excitations”, **Smart Structures and Systems**, 17(2), p. 231-256, February 2016, DOI: 10.12989/ss.2016.17.2.231, ISSN: 1738-1584 (Print), 1738-1991 (Online), Copyright 2016 Techno-Press, Ltd., Yuseong, Daejeon 34186 Korea.
<http://koreascience.or.kr/article/JAKO201608160153278.page>
- [A.40] PIOLDI, F., RIZZI, E. (2016), “A Full Dynamic Compound Inverse Method for output-only element-level system identification and input estimation from earthquake response signals”, **Computational Mechanics**, First online: 30 April 2016, p. 1-21, Published in the completed journal issue: 58(2), p. 307-327, DOI: 10.1007/s00466-016-1292-0, ISSN: 0178-7675 (Print); 1432-0924 (Online), Springer Science + Business Media, Springer Netherlands.
<https://link.springer.com/article/10.1007/s00466-016-1292-0>
- [A.41] FERRARI, R., COCCHETTI, G., RIZZI, E. (2016), “Limit analysis of a historical iron arch bridge. Formulation and computational implementation”, **Computers and Structures**, Final version published online: 20-AUG-2016, Volume 175, 15 October 2016, Pages 184-196, DOI: 10.1016/j.compstruc.2016.05.007, ISSN: 0045-7949, Elsevier B.V., Amsterdam, NL.
<https://www.sciencedirect.com/science/article/pii/S0045794916302309>
- [A.42] GAMBIRASIO, L., MIRABELLA ROBERTI, G., RIZZI, E. (2016), “Numerical simulations of flat-jack test setups for the local shear characterization of masonry panels”, **International Journal of Masonry Research and Innovation**, Special Issue on Numerical Modelling of Masonry Structures, Vol. 1, No. 4, Pages 306-329, 2016, DOI: 10.1504/IJMRI.2016.081268, ISSN on-line: 2056-9467, ISSN print: 2056-9459, Inderscience Enterprises Ltd., Genève, Switzerland.
<https://www.inderscience.com/info/inarticle.php?artid=81268>
- [A.43] FERRARI, R., PIOLDI, F., RIZZI, E., GENTILE, C., CHATZI, E.N., SERANTONI, E., WIESER, A. (2016), “Fusion of wireless and non-contact technologies for the dynamic testing of a historic RC bridge”, **Measurement Science and Technology**, Special Feature on “Dense Sensor Networks for Mesoscale SHM: Innovations in Sensing Technologies and Signal Processing”, Volume 27, Issue 12, 26 October 2016, Article number 124014 (15 pages), DOI: 10.1088/0957-0233/27/12/124014, Online ISSN: 1361-6501, Print ISSN: 0957-0233, Institute of Physics, IOP Publishing Ltd., Bristol, UK.
<https://iopscience.iop.org/article/10.1088/0957-0233/27/12/124014>
- [A.44] GAMBIRASIO, L., RIZZI, E., BENSON, D.J., (2016) “Eulerian simulations of perforating gun firing in air at atmospheric pressure: scallop geometry influence on design optimization”, **Acta Mechanica**, published online: 12 November 2016, pages 1-37; March 2017, Volume 228, Issue 3, p. 991-1027, DOI: 10.1007/s00707-016-1750-y, ISSN: 0001-5970 (Print), 1619-6937 (Online), Springer, Vienna, Austria.
<https://link.springer.com/article/10.1007/s00707-016-1750-y>

- [A.45] PIOLDI, F., SALVI, J., RIZZI, E. (2016), “*Refined FDD modal dynamic identification from earthquake responses with Soil-Structure Interaction*”, **International Journal of Mechanical Sciences**, Available online: 5 November 2016, Online publication complete: 20 December 2016, Final version published online: 12 June 2017, Volume 127(July 2017), Pages 47-61, Special Issue from International Conference on Engineering Vibration - ICoEV 2015, DOI: 10.1016/j.ijmecsci.2016.10.032, ISSN: 0020-7403, Elsevier Ltd., Oxford, UK.
<https://www.sciencedirect.com/science/article/abs/pii/S0020740316306051>
- [A.46] PIOLDI, F., RIZZI, E. (2017), “*Full Dynamic Compound Inverse Method: Extension to General and Rayleigh damping*”, **Computational Mechanics**, Accepted: 21 October 2016, Published First Online: 03 January 2017, pages 1-15, Published in the completed journal issue: April 2017, Volume 59, Issue 4, p. 539-553, DOI: 10.1007/s00466-016-1347-2, ISSN: 0178-7675 (Print); 1432-0924 (Online), Springer Science + Business Media, Springer Netherlands.
<https://link.springer.com/article/10.1007/s00466-016-1347-2>
- [A.47] PIOLDI, F., FERRARI, R., RIZZI, E. (2017), “*Seismic FDD modal identification and monitoring of building properties from real strong-motion structural response signals*”, **Structural Control and Health Monitoring**, Early View (Online Version of Record published before inclusion in an issue): 9 February 2017, Volume 24, Issue 11, Pages 1-20, e1982, November 2017, DOI: 10.1002/stc.1982, Print ISSN: 1545-2255, Online ISSN: 1545-2263, John Wiley & Sons, Inc., Chichester, West Sussex, UK.
<https://onlinelibrary.wiley.com/doi/abs/10.1002/stc.1982>
- [A.48] PIOLDI, F., RIZZI, E. (2017), “*Refined Frequency Domain Decomposition modal dynamic identification from earthquake-induced structural responses*”, **Meccanica**, Special Issue on New Trends in Dynamics and Stability, 52(13), 3165-3179, First Online: 30 March 2017, DOI: 10.1007/s11012-017-0659-4, Meccanica, An International Journal of Theoretical and Applied Mechanics AIMETA, ISSN: 0025-6455 (Print), 1572-9648 (Online), Springer Science+Business Media, Dordrecht, Netherlands.
<https://link.springer.com/article/10.1007/s11012-017-0659-4>
- [A.49] FROIO, D., RIZZI, E., (2017), “*Analytical solution for the elastic bending of beams lying on a linearly variable Winkler support*”, **International Journal of Mechanical Sciences**, Accepted: 22 April 2017, Available online: 26 April 2017, Volumes 128-129, August 2017, Pages 680-694, DOI: 10.1016/j.ijmecsci.2017.04.021, ISSN: 0020-7403, Elsevier Ltd., Oxford, UK.
<https://www.sciencedirect.com/science/article/abs/pii/S0020740317306276>
- [A.50] PIOLDI, F., RIZZI, E. (2017), “*A refined Frequency Domain Decomposition tool for structural modal monitoring in earthquake engineering*”, **Earthquake Engineering and Engineering Vibration**, Accepted for publication 22 July 2016, First Online: 08 July 2017, Volume 16, Issue 3, p. 627-648, DOI: 10.1007/s11803-017-0394-9, ISSN: 1671-3664 (Print), 1993-503X (Online), Springer International Publishing AG, Part of Springer Science + Business Media, Springer, New York, USA.
<https://link.springer.com/article/10.1007/s11803-017-0394-9>
- [A.51] SALVI, J., RIZZI, E. (2017), “*Optimum earthquake-tuned TMDs: Seismic performance and new design concept of balance of split effective modal masses*”, **Soil Dynamics and Earthquake Engineering**, Accepted for publication 28 May 2017, Available online 02 August 2017, Volume 101, October 2017, p. 67-80, DOI: 10.1016/j.soildyn.2017.05.029, ISSN: 0267-7261, Elsevier B.V., Amsterdam, The Netherlands.
<https://www.sciencedirect.com/science/article/abs/pii/S0267726117302154>
- [A.52] FERRARI, R., COCCHETTI, G., RIZZI, E. (2017), “*Computational elastoplastic Limit Analysis of the Paderno d’Adda bridge (Italy, 1889)*”, **Archives of Civil and Mechanical Engineering**, Accepted for publication 11 May 2017, Final version published online: 30 August 2017, Volume 18, Issue 1 (2018), p. 291-310, DOI: 10.1016/j.acme.2017.05.002, ISSN: 1644-9665, Politechnika Wroclawska, Published by Elsevier Sp. z o.o., Wroclaw, Poland.
<https://www.sciencedirect.com/science/article/abs/pii/S1644966517300651>
- [A.53] PIOLDI, F., RIZZI, E. (2017), “*Earthquake-induced structural response output-only identification by two different Operational Modal Analysis techniques*”, **Earthquake Engineering and Structural Dynamics**, Manuscript Accepted: 11 July 2017, Version of record online: 30 August

- 2017, Issue online: 4 December 2017, Volume 47, Issue 1, January 2018, Pages 257-264, DOI: 10.1002/eqe.2947, Online ISSN: 1096-9845, John Wiley and Sons Inc., Hoboken, NJ, USA.
<https://onlinelibrary.wiley.com/doi/abs/10.1002/eqe.2947>
- [A.54] FROIO, D., RIZZI, E., SIMÕES, F.M.F., PINTO DA COSTA, A. (2017), “Critical velocities of a beam on nonlinear elastic foundation under harmonic moving load”, **Procedia Engineering**, Special Issue: X International Conference on Structural Dynamics, EURODYN 2017, Final version published online: 12 September 2017, Volume 199, 2017, p. 2585-2590, DOI: 10.1016/j.proeng.2017.09.348, ISSN: 1877-7058, Elsevier B.V., Amsterdam, The Netherlands.
<https://www.sciencedirect.com/science/article/pii/S1877705817338377>
- [A.55] FROIO, D., RIZZI, E., SIMÕES, F.M.F., PINTO DA COSTA, A. (2017), “Universal analytical solution of the steady-state response of an infinite beam on a Pasternak elastic foundation under moving load”, **International Journal of Solids and Structures**, Accepted for publication 05 October 2017, Available online 13 October 2017, Volumes 132-133, February 2018, Pages 245-263, DOI: 10.1016/j.ijsolstr.2017.10.005, ISSN: 0020-7683, Elsevier B.V., Amsterdam, The Netherlands.
<https://www.sciencedirect.com/science/article/pii/S0020768317304675>
- [A.56] RODRIGUES, C., SIMÕES, F.M.F., PINTO DA COSTA, A., FROIO, D., RIZZI, E. (2017), “Finite element dynamic analysis of beams on nonlinear elastic foundations under a moving oscillator”, **European Journal of Mechanics - A/Solids**, Accepted 23 October 2017, Available online 28 October 2017, 68(March-April 2018), p. 9-24, DOI: 10.1016/j.euromechsol.2017.10.005, ISSN: 0997-7538, Elsevier B.V., Amsterdam, The Netherlands.
<https://www.sciencedirect.com/science/article/abs/pii/S0997753817301572>
- [A.57] PIOLDI, F., RIZZI, E. (2017), “Assessment of Frequency versus Time Domain enhanced technique for response-only modal dynamic identification under seismic excitation”, **Bulletin of Earthquake Engineering**, Accepted for publication 1 November 2017, Available online 11 November 2017, Volume 16, Issue 3, March 2018, p. 1547-1570, DOI: 10.1007/s10518-017-0259-7, ISSN: 1570-761X (Print) 1573-1456 (Online), Springer International Publishing AG. Part of Springer Nature, Springer, New York, USA.
<https://link.springer.com/article/10.1007/s10518-017-0259-7>
- [A.58] FERRARI, R., COCCHETTI, G., RIZZI, E. (2017), “Effective iterative algorithm for the Limit Analysis of truss-frame structures by a kinematic approach”, **Computers and Structures**, Accepted for publication 28 November 2017, Available online 19 December 2017, Volume 197, 15 February 2018, Pages 28-41, DOI: 10.1016/j.compstruc.2017.11.018, ISSN: 0045-7949, Elsevier B.V., Amsterdam, NL.
<https://www.sciencedirect.com/science/article/abs/pii/S0045794917312828>
- [A.59] PIOLDI, F., RIZZI, E. (2018), “Full Dynamic Compound Inverse Method for seismic output-only element-level and input identification: Unitary formulation and extensive validation”, **Mechanical Systems and Signal Processing**, Accepted for publication 06 April 2018, Available online 30 April 2018, Volume 111 (October 2018), p. 580-614, DOI: 10.1016/j.ymssp.2018.04.013, Online ISSN: 0888-3270, Elsevier B.V., Amsterdam, NL.
<https://www.sciencedirect.com/science/article/abs/pii/S0888327018302036>
- [A.60] SALVI, J., RIZZI, E., RUSTIGHI, E., FERGUSON, N.S. (2018), “Optimum tuning of passive Tuned Mass Dampers for the mitigation of pulse-like responses”, **Journal of Vibration and Acoustics** (ASME), manuscript accepted 06 May 2018, posted online 01 June 2018, in final form 03 July 2018, DECEMBER 2018, Vol. 140, Issue 6, 061014 (14 pages), Paper No: VIB-18-1027, DOI: 10.1115/1.4040475, ISSN: 1048-9002, eISSN: 1528-8927, ASME, The American Society of Mechanical Engineers, New York, USA.
<https://asmedigitalcollection.asme.org/vibrationacoustics/article/140/6/061014/449706>
- [A.61] FROIO, D., RIZZI, E., SIMÕES, F.M.F., PINTO DA COSTA, A. (2018), “Dynamics of a beam on bilinear elastic foundation under harmonic moving load”, **Acta Mechanica**, Accepted 24 June 2018, First Online: 30 July 2018, Published in the completed journal issue: 16 October 2018, October 2018, Volume 229, Issue 10, p. 4141-4165, DOI: 10.1007/s00707-018-2213-4, ISSN: 0001-5970 (Print), 1619-6937 (Online), Springer, Vienna, Austria.
<https://link.springer.com/article/10.1007/s00707-018-2213-4>

- [A.62] SALVI, J., PIOLDI, F., RIZZI, E. (2018), “*Optimum Tuned Mass Dampers under seismic Soil-Structure Interaction*”, **Soil Dynamics and Earthquake Engineering**, Accepted for publication 13 July 2018, available online 17 August 2018, Volume 114 (November 2018), p. 576-597, DOI: 10.1016/j.soildyn.2018.07.014, ISSN: 0267-7261, Elsevier B.V., Amsterdam, The Netherlands.
<https://www.sciencedirect.com/science/article/abs/pii/S0267726118300861>
- [A.63] FERRARI, R., FROIO, D., RIZZI, E., GENTILE, C., CHATZI, E.N. (2018), “*Model updating of a historic concrete bridge by sensitivity- and global optimization-based Latin Hypercube Sampling*”, **Engineering Structures**, Accepted for publication 2 August 2018, final article available online 2 November 2018, Volume 179C, 15 January 2019, p. 139-160, DOI: 10.1016/j.engstruct.2018.08.004, ISSN: 0141-0296, Elsevier B.V., Amsterdam, NL.
<https://www.sciencedirect.com/science/article/abs/pii/S0141029617340403>
- [A.64] RAVIZZA, G., FERRARI, R., RIZZI, E., CHATZI, E.N. (2018), “*Effective Heterogeneous Data Fusion procedure via Kalman filtering*”, **Smart Structures and Systems**, Accepted for publication 10 November 2018, Volume 22, Number 5, November 2018, pages 631-641, DOI: 10.12989/sss.2018.22.5.631, ISSN: 1738-1584 (Print), 1738-1991 (Online), Copyright 2018 Techno-Press, Ltd., Yuseong, Daejeon 34186 Korea.
<http://koreascience.or.kr/article/JAKO201836256832332.page>
- [A.65] FERRARI, R., COCCHETTI, G., RIZZI, E. (2019), “*Reference structural investigation on a 19th-century arch iron bridge loyal to design-stage conditions*”, **International Journal of Architectural Heritage – Conservation, Analysis, and Restoration**, Accepted 23 April 2019, Published 05 July 2019, Volume 14 (2020), Issue 10, p. 1425-1455, DOI: 10.1080/15583058.2019.1613453, Print ISSN: 1558-3058, Online ISSN: 1558-3066, Taylor and Francis, Philadelphia, PA 19106, USA.
<https://www.tandfonline.com/doi/abs/10.1080/15583058.2019.1613453>
- [A.66] FROIO, D., RIZZI, E., SIMÕES, F.M.F., PINTO DA COSTA, A. (2019), “*DLSFEM-PML formulation for the steady-state response of a taut string on visco-elastic support under moving load*”, **Meccanica**, Special Issue: Computational Models for ‘Complex’ Materials and Structures, beyond the Finite Elements, Accepted 04 September 2019, Published 02 October 2019, Volume 55, Issue 4 (April 2020), p. 765-790, DOI: 10.1007/s11012-019-01047-7, Meccanica, An International Journal of Theoretical and Applied Mechanics AIMETA, ISSN: 0025-6455 (Print), ISSN: 1572-9648 (Online), Springer Science+Business Media, Dordrecht, Netherlands.
<https://link.springer.com/article/10.1007/s11012-019-01047-7>
- [A.67] FERRARI, R., COCCHETTI, G., RIZZI, E. (2019), “*Evolutionary and kinematic Limit Analysis algorithms for large-scale 3D truss-frame structures: comparison application to historic iron bridge arch*”, **International Journal of Computational Methods**, Special Issue – ICCM2018, Accepted for publication 18 August 2019, Published 5 November 2019, Volume 17, Issue 05 (June 2020), 1940020 (18 pages), DOI: 10.1142/S0219876219400206, ISSN (print): 0219-8762, ISSN (online): 1793-6969, World Scientific Publishing Company, Singapore.
<https://www.worldscientific.com/doi/abs/10.1142/S0219876219400206>
- [A.68] COCCHETTI, G., RIZZI, E. (2019), “*Analytical and numerical analysis on the collapse modes of least-thickness circular masonry arches at decreasing friction*”, **Frattura ed Integrità Strutturale – Fracture and Structural Integrity**, Special Issue: Fracture and Damage Detection in Masonry Structures, Accepted for publication: 5 November 2019, Published Online First: 4 December 2019, Vol. 14, Issue 51, 1 January 2020, p. 356-375, DOI: 10.3221/IGF-ESIS.51.26, ISSN 1971-8993 (Online), Italian Group of Fracture, Cassino (FR), Italy.
<https://www.fracturae.com/index.php/fis/article/view/2554>
- [A.69] PASTORE, T., CABRINI, M., LORENZI, S., RIZZI, E., FERRARI, R., COPPOLA, L., SPIROLAZZI, G., PISANELLI, G., CIOFFI, C., LIZZORI, E. (2020), “*Fenomeni di corrosione delle infrastrutture metalliche di rilevanza storica — Corrosion phenomena of historic metallic infrastructures*” (in Italian), **Metallurgia Italiana** – International Journal of the Italian Association for Metallurgy, Volume 112, Issue 4 (April 2020), p. 43-48, ISSN: 0026-0843, Associazione Italiana di Metallurgia (AIM), Milano, Italy.
https://www.aimnet.it/la.metallurgia_italiana/2020/aprile/lorenzi.pdf

- [A.70] FROIO, D., RIZZI, E., SIMÕES, F.M.F., PINTO DA COSTA, A. (2020), “A true PML approach for steady-state vibration analysis of an elastically supported beam under moving load by a DLSFEM formulation”, **Computers and Structures**, Accepted: 15 May 2020, Published online: 6 July 2020, Volume 239, 15 October 2020, Article number 106295, p. 1-23, DOI: 10.1016/j.compstruc.2020.106295, ISSN: 0045-7949, Elsevier Ltd, Amsterdam, NL.
<https://www.sciencedirect.com/science/article/abs/pii/S0045794920300985>
- [A.71] FROIO, D., VERZEROLI, L., FERRARI, R., RIZZI, E. (2020), “On the numerical modelization of moving load beam problems by a dedicated parallel computing FEM implementation”, **Archives of Computational Methods in Engineering**, Accepted: 18 June 2020, Published on line: 18 August 2020, Volume 28, Issue 4 (June 2021), p. 2253-2314, DOI: 10.1007/s11831-020-09459-5, Electronic ISSN: 1886-1784, Print ISSN: 1134-3060, Springer Nature Switzerland AG.
<https://link.springer.com/article/10.1007/s11831-020-09459-5>
- [A.72] CHIOREAN, C.G., PASSERA, D., FERRARI, R., RIZZI, E. (2020), “An implementation for 2nd-order M-N coupling and geometric stiffness adaptation in tapered beam-column elements”, **Engineering Structures**, Accepted: 17 August 2020, Available online: 16 September 2020, Volume 225, 15 December 2020, 111241 (20 pages), DOI: 10.1016/j.engstruct.2020.111241, ISSN: 0141-0296, Elsevier B.V., Amsterdam, NL.
<https://www.sciencedirect.com/science/article/abs/pii/S0141029620338426>
- [A.73] COCCHETTI, G., RIZZI, E. (2020), “Static upper/lower thrust and kinematic work balance stationarity for least-thickness circular masonry arch optimization”, **Journal of Optimization Theory and Applications**, Accepted: 15 October 2020, Published: 28 November 2020, Special Issue on: Computational Optimization for Structural Engineering and Applications; Volume 187, Issue 3, December 2020, p. 707-757, DOI: 10.1007/s10957-020-01772-0, Electronic ISSN: 1573-2878, Print ISSN: 0022-3239, Springer Nature Switzerland AG.
<https://link.springer.com/article/10.1007/s10957-020-01772-0>
- [A.74] COCCHETTI, G., RIZZI, E. (2020), “Non-linear programming numerical formulation to acquire limit self-standing conditions of circular masonry arches accounting for limited friction”, **International Journal of Masonry Research and Innovation**, Accepted: 19 October 2019, Published: 07 December 2020, Themed Issue on: Masonry Research in the Third Millennium: From Theory to Practical Applications, Vol. 5, No. 4, p. 569-617, DOI: 10.1504/IJMRI.2020.111806, ISSN online: 2056-9467, ISSN print: 2056-9459, Inderscience Enterprises Ltd., Genève, Switzerland.
<https://www.inderscience.com/info/inarticle.php?artid=111806>
- [A.75] COCCHETTI, G., RIZZI, E. (2021), “Least-thickness symmetric circular masonry arch of maximum horizontal thrust”, **Archive of Applied Mechanics**, Accepted 06 February 2021, Published 20 March 2021, Volume 91, Issue 6 (June 2021), p. 2617-2639, DOI: 10.1007/s00419-021-01909-1, Print ISSN: 0939-1533, Electronic ISSN: 1432-0681, Springer Nature Switzerland AG.
<https://link.springer.com/article/10.1007/s00419-021-01909-1>
- [A.76] RAVIZZA, G., FERRARI, R., RIZZI, E., DERTIMANIS, V. (2021), “On the denoising of structural vibration response records from low-cost sensors: a critical comparison and assessment”, **Journal of Civil Structural Health Monitoring**, Accepted 18 June 2021, Published 09 July 2021, Volume 11, Issue 5 (November 2021), p. 1201-1224, DOI: 10.1007/s13349-021-00502-y, Print ISSN: 2190-5452, Electronic ISSN: 2190-5479, Springer-Verlag GmbH Germany, part of Springer Nature.
<https://link.springer.com/article/10.1007/s13349-021-00502-y>
- [A.77] LORENZI, S., CABRINI, M., COPPOLA, L., FERRARI, C., FERRARI, R., RIZZI, E., PASTORE, T., SPIROLAZZI, G., PISANELLI, G., CIOFFI, C., LIZZORI, E. (2021), “Studio dei fenomeni di corrosione in fessura di ponti chiodati di valenza storica — Pack rust corrosion evaluation on historical riveted steel bridges” (in Italian), **Metallurgia Italiana** – International Journal of the Italian Association for Metallurgy, Volume 113, Issue 3 (March 2021), p. 29-36, ISSN: 0026-0843, Associazione Italiana di Metallurgia (AIM), Milano, Italy.
<https://www.aimnet.it/la-metallurgia-italiana/2021/marzo/lorenzi.pdf>
- [A.78] CORNAGGIA, A., FERRARI, R., ZOLA, M., RIZZI, E., GENTILE, C. (2022), “Signal processing methodology of response data from a historical arch bridge toward reliable modal identification”, **Infrastructures**, Special Issue “Structural Health Monitoring of Civil Infrastructures”,

- [A.79] COCCHETTI, G., RIZZI, E. (2024), “*Finite-friction least-thickness self-standing domains of symmetric circular masonry arches*”, **Structures**, Accepted 19 June 2024, Available online 8 July 2024, Special Issue on Shells and Spatial Structures: Conceptual Design, Construction and Maintenance, Eds. Stefano Gabriele and Andrea Micheletti, <https://www.sciencedirect.com/special-issue/10GNMSVMJ83>, Volume 66, August 2024, Paper 106800, p. 1-20, DOI: 10.1016/j.istruc.2024.106800, Online ISSN: 2352-0124, Institution of Structural Engineers, published by Elsevier Ltd, Amsterdam, NL.
<https://www.sciencedirect.com/science/article/pii/S2352012424009524>

Unfinished/Unpublished Preprints:

- {A.80} CAROL, I., LOREFICE, R., RIZZI, E. (2007), “*A reappraisal of localization analysis of isotropic damage/plasticity models based on a single quadratic loading surface*”, **Draft Preprint**.
- {A.81} PLANAS-VILANOVA, F., BARJA, M.A., CAROL, I., RIZZI, E. (2008), “*On the set of similarity classes of pairs of 3×3 real symmetric matrices*”, **Unpublished Paper**.
- {A.82} COCCHETTI, G., RIZZI, E. (2009), “*Effective iterative strategy for the solution of linear systems in direct and inverse mechanical problems*”, **Draft Preprint**.

(B) Chapters in Refereed Books:

- [B.1] LORET, B., RIZZI, E. (1998), “*On the Effects of Inertial Coupling on the Wave-Speeds of Elastic-Plastic Fluid-Saturated Porous Media*”, *Material Instabilities in Solids*, Eds. R. de Borst and E. van der Giessen, Chapter 4, p. 41-53, ISBN: 978-0-471-97460-4, August 1998, John Wiley & Sons Ltd., Chichester, U.K.
<https://www.wiley.com/en-be/Material+Instabilities+in+Solids-p-9780471974604>
- [B.2] COCCHETTI, G., LIU, R., CORNAGGIA, A., FERRARI, R., RIZZI, E. (2023), “*Elastic-Plastic Optimisation of a Cable-Rib Satellite Antenna*”, *Springer Book on Direct Methods for Limit State of Materials and Structures. Advanced Computational Algorithms and Material Modelling*, reflects outcomes of DM2022 Workshop, University of Calabria, Arcavacata di Rende, Italy, 28 June 2022, Editors: Giovanni Garcea, Dieter Weichert, **Lecture Notes in Applied and Computational Mechanics**, 2023, 101, Chapter 3, p. 43-67, DOI: 10.1007/978-3-031-29122-7_3, Springer Nature.
https://link.springer.com/chapter/10.1007/978-3-031-29122-7_3

(C) Articles in Proceedings of International Conferences:

- [C.1] CAROL, I., RIZZI, E., WILLAM, K. (1994), “*Towards a general formulation of elastic degradation and damage based on a loading surface*”, *Computer Modelling of Concrete Structures*, Proc. of EURO-C 1994, March 22-25, 1994, Innsbruck, Austria, Eds. H. Mang, N. Bićanić and R. de Borst, Pineridge Press, Swansea, U.K., 1994, ISBN 0-906674-84-0, p. 199-208.
- [C.2] RIZZI, E., CAROL, I., WILLAM, K. (1994), “*Localization analysis of constitutive models for elastic degradation*”, *Computer Modelling of Concrete Structures*, Proc. of EURO-C 1994, March 22-25, 1994, Innsbruck, Austria, Eds. H. Mang, N. Bićanić and R. de Borst, Pineridge Press, Swansea, U.K., 1994, ISBN 0-906674-84-0, p. 425-434.
- [C.3] RIZZI, E., WILLAM, K. (1994), “*Spatial discretization of strain localization*”, *Computer-Aided Assessment and Control*, Proc. of LOCALIZED DAMAGE III, Udine, Italy, June 21-23, 1994, Eds. M.H. Aliabadi, A. Carpinteri, S. Kaliszky and D.J. Cartwright, Computational Mechanics Publications, Southampton, U.K., 1994, ISBN 1-85312-262-9, p. 553-560; also available online (free Open Access) in WIT Transactions on Engineering Sciences, Damage & Fracture Mechanics, Localized Damage III Computer Aided Assessment and Control, WIT Press, ISSN 1743-3533, DOI: 10.2495/LD940651, Volume 6, Pages 8, Published 1994.
<https://www.witpress.com/elibrary/wit-transactions-on-engineering-sciences/6/11745>

- [C.4] RIZZI, E., WILLAM, K., CAROL, I. (1995), “*Strain localization for constitutive models combining plasticity with elastic degradation*”, Computational Plasticity: Fundamentals and Applications, Proc. of Complas IV, Barcelona, Spain, April 3-6, 1995, Eds. D.R.J. Owen and E. Oñate, Pineridge Press, Swansea, U.K., 1995, ISBN 0-906674-85-9, p. 623-634.
- [C.5] CAROL, I., RIZZI, E., WILLAM, K. (1995), “*Current issues in elastic degradation and damage*”, Engineering Mechanics, Proc. of 10th ASCE Engineering Mechanics Specialty Conference, University of Colorado at Boulder, Boulder, CO, USA, May 21-24, 1995, Ed. S. Sture, ASCE, New York, U.S.A., 1995, ISBN 0-7844-0083-0, p. 521-524.
- [C.6] RIZZI, E., WILLAM, K. (1995), “*Constitutive singularities of combined elastic degradation and plasticity*”, Engineering Mechanics, Proc. of 10th ASCE Engineering Mechanics Specialty Conference, University of Colorado at Boulder, Boulder, CO, USA, May 21-24, 1995, Ed. S. Sture, ASCE, New York, U.S.A., 1995, ISBN 0-7844-0083-0, p. 529-532.
- [C.7] RIZZI, E., LORET, B. (1997), “*Strain localization in transversely isotropic elastic-plastic solids*”, Computational Plasticity: Fundamentals and Applications, Proc. of Complas V, Barcelona, Spain, March 17-20, 1997, Eds. D.R.J. Owen, E. Oñate and E. Hinton, Pineridge Press, Swansea, U.K., 1997, ISBN: 84-87867-71-5, p. 647-654.
- [C.8] RIZZI, E., LORET, B. (1997), “*Elastic-plastic models for fluid-saturated porous media and inception of strain localisation*”, Multiple Scale Analyses and Coupled Physical Systems, Proc. of Saint-Venant Symposium, Paris, France, August 28-29, 1997, Presses de l’École Nationale des Ponts et Chaussées, Paris, France, 1997, ISBN: 2-85978-282-6, p. 569-576.
- [C.9] CAROL, I., RIZZI, E., WILLAM, K. (1998), “*On the formulation of isotropic and anisotropic damage*”, Computational Modelling of Concrete Structures, Proc. of EURO-C 1998, March 31-April 3, 1998, Badgastein, Austria, Eds. R. de Borst, N. Bićanić, H. Mang and G. Meschke, Balkema, Rotterdam, The Netherlands, 1998, ISBN: 9054109467, p. 183-192.
- [C.10] RIZZI, E., LORET, B. (1998), “*Constitutive modeling of fluid-saturated porous media with degrading elastic properties*”, Poromechanics, Proc. of Biot Conference on Poromechanics, September 14-16, 1998, Louvain-la-Neuve, Belgium, Eds. J.-F. Thimus et al., Balkema, Rotterdam, The Netherlands, 1998, ISBN: 90-5809-003-5, p. 141-146.
- [C.11] CAROL, I., RIZZI, E., WILLAM, K. (2000), “*A formulation of isotropic and anisotropic damage with evolution laws in pseudo-log space*”, European Congress on Computational Methods in Applied Sciences and Engineering, ECCOMAS 2000, Barcelona, Spain, September 11-14, 2000, ISBN: 84-89925-70-4, CD-ROM Proc., 19 pages.
<https://congress2.cimne.com/eccomas/proceedings/eccomas2000/pdf/745.pdf>
- [C.12] CORIGLIANO, A., PAPA, E., RIZZI, E. (2000), “*On the use of a syntactic foam as core for sandwich panels and as external coating for pressurised pipelines*”, European Congress on Computational Methods in Applied Sciences and Engineering, ECCOMAS 2000, Barcelona, Spain, September 11-14, 2000, ISBN: 84-89925-70-4, CD-ROM Proc., 12 pages.
<https://congress2.cimne.com/eccomas/proceedings/eccomas2000/pdf/777.pdf>
- [C.13] COMI, C., RIZZI, E. (2000), “*On bifurcation in local and nonlocal materials with tension and compression damage*”, European Congress on Computational Methods in Applied Sciences and Engineering, ECCOMAS 2000, Barcelona, Spain, September 11-14, 2000, ISBN: 84-89925-70-4, CD-ROM Proc., 20 pages.
<https://congress2.cimne.com/eccomas/proceedings/eccomas2000/pdf/812.pdf>
- [C.14] CAROL, I., RIZZI, E. (2002), “*Some problems of tensor calculus in the context of solid mechanics*”, GEMT BCN 2002, Grups d’Estudi de Matemàtica i Tecnologia, Barcelona, July 2002, Eds. Enric Fossas i Joan Solà-Morales, Facultat de Matemàtiques i Estadística, UPC, Barcelona, Spain, December 2002, ISBN: 84-688-1493-8, p. 17-23.
http://plus.upc.es/gemt/Docs/2002/gemtBCN_2002.pdf
- [C.15] RIZZI, E., CAROL, I. (2002), “*Constitutive relations of orthotropic elastic damage with dual properties*”, International Symposium Anisotropic Behaviour of Damaged Materials, ABDM-2002, Kraków–Przegorzal, Poland, September 9-11, 2002, Coordinators J.J. Skrzypek, A. Ganczarski, Solid Mechanics Division, Institute of Mechanics and Machine Design, Cracow University of Technology, Poland, CD-ROM Proc., 28 pages.

- [C.16] HÄHNER, P., GRÜTZUN, V., RIZZI, E. (2004), “Theoretical and numerical modeling of strain-rate softening instabilities: on the velocity selection of propagating Portevin–Le Chatelier deformation bands”, Proc. of 2nd International Conference on Multiscale Materials Modeling (MMM-II), University of California at Los Angeles, USA, October 11–15, 2004, Ed. Nasr M. Ghoniem, Printed by Mechanical and Aerospace Engineering Department, UCLA, ISBN 0-9762064-1-2, p. 205-208.
- [C.17] CAROL, I., RIZZI, E., WILLAM, K. (2005), “An ‘extended’ anisotropic damage model based on Young/Poisson decomposition”, 11th International Conference on Fracture (ICF11), Torino, Italy, March 20-25, 2005, Ed. Alberto Carpinteri, Abstract Book, ISBN 978-88-903188-2-5, p. 383; CD-ROM Proc., ISBN 978-88-903188-1-8, Paper 5623, 6 pages. Available online at Gruppo Italiano Frattura (GIF) website.
<https://www.gruppofrattura.it/ocs/index.php/ICF/ICF11/paper/view/10751/10091>
- [C.18] RIZZI, E., SANGALLI, S. (2007), “Biomechanical simulations of corneal refractive surgery”, Modelling of Heterogeneous Materials with Applications in Construction and Biomedical Engineering (MHM 2007), ECCOMAS Thematic Conference, Prague, Czech Republic, June 25-27, 2007, Eds. M. Jirásek, Z. Bittnar and H. Mang, Book+CD-ROM Proc., ISBN: 978-80-01-03762-1, p. 326-327.
- [C.19] FERRARI, R., RIZZI, E. (2008), “On the theory of the ellipse of elasticity as a natural discretisation method in the design of Paderno d’Adda Bridge (Italy)”, Chapter 66 in Structural Analysis of Historic Construction - Preserving Safety and Significance, Proc. of the VI International Conference on Structural Analysis of Historic Construction (SAHC08), D. D’Ayala and E. Fodde (Eds.), Bath, UK, July 2-4 2008, CRC Press, Taylor & Francis Group, London, print ISBN: 978-0-415-46872-5, p. 583-591; eBook ISBN: 978-1-4398-2822-9, DOI: 10.1201/9781439828229.ch66.
<http://www.hms.civil.uminho.pt/sahc/2008/CH056.pdf>
- [C.20] RIZZI, E., BRESCIANINI, D., SCOTTI, M. (2009), “On the optimal tuning of tuned mass dampers in structural systems”, ECCOMAS Thematic Conference – 2nd Int. Conf. on Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2009), M. Papadrakakis, N.D. Lagaros, M. Fragiadakis (Eds.), Rhodes, Greece, 22-24 June 2009, ISBN: 978-960-254-682-6; Book of Abstracts, p. 254; CD-ROM Proceedings, CD532, 24 pages.
- [C.21] GAMBIRASIO, L., CHIODI, P., RIZZI, E. (2010), “Analytical and numerical modelling of the Swift effect in elastoplastic torsion”, Proc. of The Ninth International Conference on Multiaxial Fatigue and Fracture (ICMFF9), Andrea Carpinteri, Les P. Pook, C. Morris Sonsino (Eds.), Parma, Italy, 7-9 June 2010, ISBN: 978-88-95940-31-1, Book of Abstracts, p. 119; CD-ROM Proceedings, p. 843-850 (8 pages). Available online on Gruppo Italiano Frattura (GIF) website.
<https://www.gruppofrattura.it/ocs/index.php/ICMFF/ICMFF9/paper/view/11787/10955>
- [C.22] FERRARI, R., FACHERIS, M., RIZZI, E. (2010), “Structural modelling of the piers of the Paderno d’Adda Bridge (1889, Italy)”, Proc. of 34th International Symposium on Bridge and Structural Engineering (IABSE), Large Structures and Infrastructures for Environmentally Constrained and Urbanised Areas, Venice, Italy, September 22-24, 2010, ISBN: 978-3-85748-122-2; Book of Abstracts, p. 778-779; CD-ROM Proceedings, Paper A-634, 8 pages; also available in IABSE Reports (No. 97), IABSE Symposium, Venice 2010, P4A Basis of Design, p. 69-76(8), DOI: 10.2749/222137810796063689, Publisher: International Association for Bridge and Structural Engineering (IABSE), ISSN: 2221-3783, Zurich, Switzerland.
<http://www.ingentaconnect.com/contentone/iabse/report/2010/00000097/00000007/art00011>
- [C.23] FERRARI, R., FACHERIS, M., RIZZI, E. (2010), “Structural analysis of the Paderno d’Adda Bridge (Italy, 1889)”, Proc. of 7th International Conference on Structural Analysis of Historical Constructions (SAHC-2010), Eds. Xianglin Gu and Xiaobin Song, Shanghai, China, October 6-8, 2010, Trans Tech Publications, Switzerland, ISBN: 978-0-87849-239-8, Part 1, p. 459-465.
<http://www.hms.civil.uminho.pt/sahc/2010/459.pdf>
- [C.24] RIZZI, E., COCCHETTI, G., COLASANTE, G., RUSCONI, F. (2010), “Analytical and numerical analysis on the collapse mode of circular masonry arches”, Proc. of 7th International Conference on Structural Analysis of Historical Constructions (SAHC-2010), Eds. Xianglin Gu and Xiaobin Song, Shanghai, China, October 6-8, 2010, Trans Tech Publications, Switzerland, ISBN: 978-0-87849-239-8, Part 1, p. 467-472.
<http://www.hms.civil.uminho.pt/sahc/2010/467.pdf>

- [C.25] FERRARI, R., RIZZI, E. (2011), “*FEM modelling of the Paderno d’Adda bridge (Italy, 1889)*”, Proc. of Structural Engineers World Congress (SEWC 2011), Como, Italy, April 4-6, 2011; Book of Abstracts p. 159; CD-ROM Proceedings, Paper 210, 9 pages.
- [C.26] SALVI, J., RIZZI, E. (2011), “*Minimax optimization of Tuned Mass Dampers under seismic excitation*”, Proc. of the 8th International Conference on Structural Dynamics (EURODYN2011), Guido De Roeck, Geert Degrande, Geert Lombaert, Gerhard Müller (Eds.), Leuven, Belgium, July 4-6, 2011; Book of Abstracts, p. 68; CD-ROM Proceedings, ISBN 978-90-760-1931-4, Paper MS09-1190, p. 1892-1899 (8 pages).
<https://bwk.kuleuven.be/apps/bwm/eurodyn2011/papers/MS09-1190.pdf>
- [C.27] SALVI, J., RIZZI, E. (2012), “*A numerical approach towards best tuning of Tuned Mass Dampers*”, Proc. of the 25th International Conference on Noise and Vibration Engineering (ISMA2012), Eds. P. Sas, D. Moens, S. Jonckheere, KU Leuven, Belgium, September 17-19, 2012; Book of Abstracts, p. 141; CD-ROM Proceedings, ISBN 9789073802896, Paper ID 645, p. 2419-2434 (16 pages).
http://past.isma-isaac.be/downloads/isma2012/papers/isma2012_0645.pdf
- [C.28] RIZZI, E., COLASANTE, G., FRIGERIO, A., COCCHETTI, G., (2012), “*On the mixed collapse mechanism of semi-circular masonry arches*”, Proc. of 8th International Conference on Structural Analysis of Historical Constructions (SAHC-2012), Ed. Jerzy Jasieńko, Wrocław, Poland, October 15-17, 2012, DWE, Wrocław, Poland, ISSN: 0860-2395, ISBN: 978-83-7125-216-7, Volume 1, p. 541-549 (9 pages).
<http://www.hms.civil.uminho.pt/sahc/2012/541.pdf>
- [C.29] FERRARI, R., COCCHETTI, G., RIZZI, E. (2012), “*Elastoplastic structural analysis of the Paderno d’Adda bridge (Italy, 1889) based on Limit Analysis*”, Proc. of 8th International Conference on Structural Analysis of Historical Constructions (SAHC-2012), Ed. Jerzy Jasieńko, Wrocław, Poland, October 15-17, 2012, DWE, Wrocław, Poland, ISSN: 0860-2395, ISBN: 978-83-7125-216-7, Volume 3, p. 2171-2180 (10 pages).
<http://www.hms.civil.uminho.pt/sahc/2012/2171.pdf>
- [C.30] TAVASCI, A., ARIZZI, F., RIZZI, E. (2013), “*Friction coefficient measurements to assess tooling behaviour in hot rolling processes*”, Proceedings of the 9th International ROLLING Conference & 6th European ROLLING Conference (ROLLING 2013), June 10-12, 2013, Venice, Italy, Associazione Italiana di Metallurgia (AIM), CD-ROM Proceedings, ISBN 9788885298958, Paper ID 51, p. 1-9 (9 pages).
- [C.31] SALVI, J., RIZZI, E., RUSTIGHI, E., FERGUSON, N.S. (2013), “*Analysis and optimisation of Tuned Mass Dampers for impulsive excitation*”, Proceedings of the 11th International Conference on Recent Advances in Structural Dynamics (RASD 2013), Editor E. Rustighi, University of Pisa, Italy, July 1-3, 2013; Book of Abstracts, p. 64; CD-ROM Proceedings, ISBN 9780854329649, Paper ID 1002, p. 1-15 (15 pages).
<https://eprints.soton.ac.uk/355210>
- [C.32] SALVI, J., RIZZI, E., GAVAZZENI, M. (2014), “*Analysis on the optimum performance of Tuned Mass Damper devices in the context of earthquake engineering*”, Proceedings of the 9th International Conference on Structural Dynamics (EURODYN 2014), Eds. A. Cunha, E. Caetano, P. Ribeiro, G. Müller, Porto, Portugal, 30 June–2 July 2014; Universidade do Porto, Faculdade de Engenharia, FEUP, Book of Abstracts, ISBN: 978-972-752-166-1, p. 85; CD-ROM Proceedings, ISSN: 2311-9020, ISBN: 978-972-752-165-4, p. 1729-1736 (8 pages), 2014.
https://paginas.fe.up.pt/~eurodyn2014/CD/papers/241_MS09_ABS_1872.pdf
- [C.33] PIOLDI, F., FERRARI, R., RIZZI, E. (2014), “*A refined FDD algorithm for Operational Modal Analysis of buildings under earthquake loading*”, Proceedings of the 26th International Conference on Noise and Vibration Engineering (ISMA2014), Eds. P. Sas, D. Moens, H. Denayer, KU Leuven, Belgium, September 15-17, 2014; Book of Abstracts, p. 152; CD-ROM Proceedings, ISBN 9789073802919, Paper ID 593, p. 3293-3308 (16 pages).
http://past.isma-isaac.be/downloads/isma2014/papers/isma2014_0593.pdf
- [C.34] FERRARI, R., FROIO, D., CHATZI, E., GENTILE, C., PIOLDI, F., RIZZI, E. (2015), “*Experimental and numerical investigation for the structural characterization of a historic RC arch bridge*”, Proceedings of the 5th ECCOMAS Thematic Conference on International Conference on

Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2015), Eds. M. Papadrakakis, V. Papadopoulos, V. Plevris, 25-27 May 2015, Hersonissos, Crete Island, Greece, Institute of Structural Analysis and Antiseismic Research, National Technical University of Athens (NTUA), ISBN: 978-960-99994-7-2, Vol. 1, p. 2337-2353 (17 pages), Ecomas Proceedia ID: 3542, Conference Proceeding ID: 1037, DOI: 10.7712/120115.3542.1037, Category: C - MS 27 - CONDITION ASSESSMENT AND INTERVENTION ON MONUMENTS AND HISTORIC STRUCTURES.

<https://www.ecomasproceedia.org/conferences/thematic-conferences/compdyn-2015/3542>

<https://files.ecomasproceedia.org/papers/compdyn-2015/1037.pdf>.

- [C.35] FERRARI, R., PIOLDI, F., RIZZI, E., GENTILE, C., CHATZI, E., KLIS, R., SERANTONI, E., WIESER, A. (2015), “*Heterogeneous sensor fusion for reducing uncertainty in Structural Health Monitoring*”, Proceedings of the 1st ECCOMAS Thematic Conference on International Conference on Uncertainty Quantification in Computational Sciences and Engineering (UNCECOMP 2015), Eds. M. Papadrakakis, V. Papadopoulos, G. Stefanou, 25-27 May 2015, Hersonissos, Crete Island, Greece, Institute of Structural Analysis and Antiseismic Research, National Technical University of Athens (NTUA), ISBN: 978-960-99994-9-6, p. 511-528 (18 pages), Ecomas Proceedia ID: 4289, Conference Proceeding ID: 821, DOI: 10.7712/120215.4289.821, Category: U - MS 11 - INNOVATIVE SENSING SOLUTIONS FOR REDUCING UNCERTAINTY IN ENGINEERING SYSTEMS.

<https://www.ecomasproceedia.org/conferences/thematic-conferences/uncecomp-2015/4289>

<https://files.ecomasproceedia.org/papers/uncecomp-2015/821.pdf>

- [C.36] SALVI, J., PIOLDI, F., RIZZI, E. (2015), “*Effectiveness of seismic-tuned passive Tuned Mass Dampers accounting for Soil-Structure Interaction*”, Proceedings of the 11th International Conference on Engineering Vibration (ICoEV2015), Eds. M. Boltežar, J. Slavič, M. Wiercigroch, Ljubljana, Slovenia, 7-10 September 2015, Department of Mechanical Engineering at the University of Ljubljana, Book of Abstracts, ISBN: 978-961-6536-96-7, p. 62; CD-ROM Proceedings, ISBN: 978-961-6536-97-4, Paper ID 232, p. 641-650 (10 pages).

- [C.37] PIOLDI, F., SALVI, J., RIZZI, E. (2015), “*FDD modal identification from earthquake response data with evaluation of Soil-Structure Interaction effects*”, Proceedings of the 11th International Conference on Engineering Vibration (ICoEV2015), Eds. M. Boltežar, J. Slavič, M. Wiercigroch, Ljubljana, Slovenia, 7-10 September 2015, Department of Mechanical Engineering at the University of Ljubljana, Book of Abstracts, ISBN: 978-961-6536-96-7, p. 52; CD-ROM Proceedings, ISBN: 978-961-6536-97-4, Paper ID 233, p. 412-421 (10 pages).

- [C.38] GAMBIRASIO, L., MIRABELLA ROBERTI, G., RIZZI, E. (2015), “*FEM investigation on a flat-jack test setup for local shear characterization in masonry panels*”, Special session on “Numerical Modelling of Masonry Structures”, Proceedings of the 8th International Congress of Croatian Society of Mechanics (8ICCSM), Eds. Ivica Kožar, Nenad Bičanić, Gordan Jelenić, Marko Čanadija, Opatija, Croatia, 29 September - 2 October 2015, Croatian Society of Mechanics, Zagreb, Croatia, 2015, Book of Abstracts, ISBN 978-953-7539-20-7, p. 35, CD-ROM Proc., ISBN 978-953-7539-21-4, 17 pages.

- [C.39] FROIO, D., MOIOLI, R., RIZZI, E. (2016), “*Numerical dynamic analysis of beams on nonlinear elastic foundations under harmonic moving load*”, Proceedings of the VII European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS Congress 2016), Eds. M. Papadrakakis, V. Papadopoulos, G. Stefanou, V. Plevris, Crete Island, Greece, 5-10 June 2016, Institute of Structural Analysis and Antiseismic Research, National Technical University of Athens (NTUA), Greece, First Edition, September 2016, ISBN: 978-618-82844-0-1, Vol. 3, p. 4794-4809 (16 pages), ECCOMAS Proceedia ID: 2149, Conference Proceeding ID: 7515, DOI: 10.7712/100016.2149.7515, Category: MS 1209 - DYNAMIC ANALYSIS OF BEAMS UNDER MOVING VEHICLES: APPLICATION TO RAILWAY TRACK MODELLING, DESIGN AND REHABILITATION.

<https://www.ecomasproceedia.org/conferences/eccomas-congresses/eccomas-congress-2016/2149>

<https://www.ecomas2016.org/proceedings/pdf/7515.pdf>

- [C.40] PIOLDI, F., PANSIERI, S., RIZZI, E. (2016), “*On the processing of earthquake-induced structural response signals by suitable Operational Modal Analysis identification techniques*”, Proceedings of the 27th International Conference on Noise and Vibration Engineering (ISMA2016), Eds. P. Sas,

- D. Moens, A. van de Walle, KU Leuven, Belgium, 19-21 September 2016, Book of Abstracts, p. 11; CD-ROM Proceedings, ISBN: 978-90-73802-94-0, p. 2873-2883 (11 pages).
http://past.isma-isaac.be/downloads/isma2016/papers/isma2016_0496.pdf
- [C.41] COCCHETTI, G., RIZZI, E. (2018), “*Limit analysis of circular masonry arches at reducing friction*”, Proceedings of the 10th International Masonry Conference (10thIMC), Eds. Gabriele Milani, Alberto Taliercio and Stephen Garrity, Politecnico di Milano, Milan, Italy, July 9-11, 2018, Abstract Book, p. 36, Proceedings of the International Masonry Society Conferences, S02 632, p. 486-503 (18 pages), ISSN: 2523-532X, The International Masonry Society (IMS), 2018.
<https://www.masonry.org.uk/downloads/s02-632-limit-analysis-of-circular-masonry-arches-at-reducing-friction>
- [C.42] FERRARI, R., COCCHETTI, G., RIZZI, E. (2018), “*New computational algorithms for the Limit Analysis of large-scale 3D truss-frame structures*”, Proceedings of the 9th International Conference on Computational Methods (ICCM2018), Eds. G.R. Liu, Patrizia Trovalusci, Rome, Italy, August 6-10, 2018, ScienTech Publisher LLC, USA, ISSN: 2374-3948 (online), Paper ID 3387, p. 506-517 (12 pages).
<https://www.sci-en-tech.com/ICCM2018/PDFs/3387-11198-1-PB.pdf>
- [C.43] RAVIZZA, G., FERRARI, R., RIZZI, E., DERTIMANIS, V., CHATZI, E.N. (2019), “*Denoising corrupted structural vibration response: critical comparison and assessment of related methods*”, Proceedings of the 7th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2019), An ECCOMAS Thematic Conference, An IACM Special Interest Conference, M. Papadrakakis, M. Fragiadakis (eds.), 24-26 June 2019, Hersonissos, Crete Island, Greece, ISBN: 978-618828445-6, Institute of Structural Analysis and Antiseismic Research, National Technical University of Athens (NTUA), ECCOMAS Proceedia, Volume 3, 2019, p. 3893-3904 (12 pages), COMPDYN 2019, Category: C - RS 02 - ALGORITHMS FOR STRUCTURAL HEALTH MONITORING, Eccomas Proceedia ID: 7194, Conference Proceeding ID: 19291, DOI: 10.7712/120119.7194.19291, ISSN: 2623-3347.
<https://www.eccomasproceedia.org/conferences/thematic-conferences/compdyn-2019/7194>
<https://files.eccomasproceedia.org/papers/compdyn-2019/19291.pdf>
- [C.44] FROIO, D., BARILETTI, A.U., EUSEBIO, M., PREVITALI, R., RIZZI, E. (2019), “*Direct method for dynamic soil-structure interaction based on seismic inertia forces*”, Proceedings of the 15th International Benchmark Workshop on Numerical Analysis of Dams (ICOLD-BW 2019), International Commission On Large Dams (ICOLD), 9-11 September 2019, Politecnico di Milano, Milano, Italy, Published in **Lecture Notes in Civil Engineering** book series (LNCE), Eds. Bolzon G., Sterpi D., Mazzà G., Frigerio A., Volume 91, p. 807-820, First Online 19 October 2020, DOI: 10.1007/978-3-030-51085-5_45, ISSN: 2366-2557, E-ISSN: 2366-2565, Print ISBN 978-3-030-51084-8, Online ISBN 978-3-030-51085-5, Springer Nature, Switzerland AG.
https://link.springer.com/chapter/10.1007/978-3-030-51085-5_45
- [C.45] RAVIZZA, G., FERRARI, R., RIZZI, E., DERTIMANIS, V., CHATZI, E.N. (2020), “*An integrated monitoring strategy for current condition assessment of historic bridges*”, Proceedings of the 11th International Conference on Structural Dynamics (EURODYN 2020), EASD (European Association for Structural Dynamics) Thematic Conference, 23-26 November 2020, Streamed online from Athens, Greece, M. Papadrakakis, M. Fragiadakis, C. Papadimitriou (Eds.), Conference Proceeding ID: E20148, Category: MS8 - STRUCTURAL HEALTH MONITORING, Vol. 1, p. 1373-1387 (15 pages), ISBN: 978-618-85072-2-7, <https://eurodyn2020.org>, Institute of Structural Analysis and Antiseismic Research, National Technical University of Athens (NTUA). Published in EASD Procedia, EURODYN (2020) 1373-1387, EASD Procedia ID: 9111, ISSN: 2311-9020, DOI: 10.47964/1120.9111.20148.
<https://www.easdtypeproceedia.org/conferences/easdtype-conferences/eurodyn-2020/9111>
<https://s3-eu-west-1.amazonaws.com/easdtypeproceedia/papers/eurodyn-2020/20148.pdf>
- [C.46] FERRARI, R., RIZZI, E., BRIOSCHI, M.S., DERTIMANIS, V. (2021), “*Design of effective Structural Health Monitoring platform for Paderno d’Adda bridge (1889)*”, Third International Online Scientific and Practical Conference “Reconstruction and Restoration of Architectural Heritage” (RRAH 2021), 24-27 March 2021, St. Petersburg, Russia, St Petersburg State University of Architecture and Civil Engineering (SPbGASU), Eds. Sergey Sementsov, Alexander Leontyev,

Santiago Huerta, *Reconstruction and Restoration of Architectural Heritage 2021*, Book Chapter, p. 210-215 (6 pages), ISBN: 9781003136804, Taylor and Francis Group, CRC Press, London.
<https://dx.doi.org/10.1201/9781003136804-41>

- [C.47] FERRARI, R., COCCHETTI, G., RIZZI, E. (2021), “*Enriched computational Limit Analysis implementation for large-scale 3D truss-frame structures*”, Proceedings of the 25th International Congress of Theoretical and Applied Mechanics (25th ICTAM), ICTAM Milano 2020+1, Italy, 22-27 August 2021, Ed. A. Corigliano, Thematic Session SM, O108768 - SM13 - Plasticity, Viscoplasticity and Creep - Oral, Book of Abstracts, p. 2168-2169 (2 pages), ISBN: 978-83-65550-31-6, International Union of Theoretical and Applied Mechanics (IUTAM).
https://iutam.org/publications/ictam-proceedings/ictam_2020
- [C.48] CORNAGGIA, A., COCCHETTI, G., FERRARI, R., RIZZI, E. (2022), “*A novel Linear Complementarity Problem implementation for elastic-plastic structural optimisation of cable-rib satellite antennas*”, Book of Abstracts of the GIMC SIMAI YOUNG 2022 Workshop, Pavia, Italy, 29-30 September 2022, Eds. (Local organizing committee) Morganti S., Tamellini L., Zanotti P., MS11 - Computational Methods for Nonlinear Solid Mechanics, p. 111, Università di Pavia.
http://gimcsimaiyoung2022.unipv.it/wp-content/uploads/2022/09/Book_of_Abstract.pdf
- [C.49] CORNAGGIA, A., GARBOWSKI, T., COCCHETTI, G., FERRARI, R., RIZZI, E. (2023), “*Optimised structural modelling for inverse analysis parameter identification relying on dynamic measurements*”, Proceedings of the 9th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2023), Athens, Greece, 12-14 June 2023, Eds. Papadrakakis M., Fragiadakis M., ISBN (set) 978-618-5827-01-4, ISBN (vol. II) 978-618-5827-00-7, Institute of Structural Analysis and Antiseismic Research, School of Civil Engineering, National Technical University of Athens (NTUA), ECCOMAS Proceedia, COMPDYN (2023), p. 4234-4248 (15 pages), Category: C - TS 11 - INVERSE PROBLEMS IN STRUCTURAL DYNAMICS, Eccomas Proceedia ID: 10715, Conference Proceeding ID: 20669, DOI: 10.7712/120123.10715.20669, ISSN: 2623-3347.
<https://www.eccomasproceedia.org/conferences/thematic-conferences/compdyn-2023/10715>
https://files.eccomasproceedia.org/papers/compdyn-2023/C23_20669.pdf
- [C.50] GARBOWSKI, T., COCCHETTI, G., CORNAGGIA, A., FERRARI, R., RIZZI, E. (2023), “*Inverse analysis investigation by Gaussian processes optimisation of a historical concrete bridge relying on dynamic modal measurements*”, Proceedings of the 9th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2023), Athens, Greece, 12-14 June 2023, Eds. Papadrakakis M., Fragiadakis M., ISBN (set) 978-618-5827-01-4, ISBN (vol. II) 978-618-5827-00-7, Institute of Structural Analysis and Antiseismic Research, School of Civil Engineering, National Technical University of Athens (NTUA), ECCOMAS Proceedia, COMPDYN (2023), p. 4249-4264 (16 pages), Category: C - TS 11 - INVERSE PROBLEMS IN STRUCTURAL DYNAMICS, Eccomas Proceedia ID: 10716, Conference Proceeding ID: 21212, DOI: 10.7712/120123.10716.21212, ISSN: 2623-3347.
<https://www.eccomasproceedia.org/conferences/thematic-conferences/compdyn-2023/10716>
https://files.eccomasproceedia.org/papers/compdyn-2023/C23_21212.pdf
- [C.51] COCCHETTI, G., CORNAGGIA, A., FERRARI, R., RIZZI, E. (2023), “*Consistent Complementarity Problem formulation for the mechanical modellisation of spatial cable-rib structures*”, Proceedings of 2nd Italian Workshop on Shell and Spatial Structures, IWSS 2023, Castello del Valentino, Facoltà di Architettura, Politecnico di Torino, 26-28 June 2023, Italian Association for Shells and Spatial Structures, Volume Editors: Stefano Gabriele, Amedeo Manuello Bertetto, Francesco Marmo, Andrea Micheletti, Book of Abstracts, 22 June 2023, 1084, p. 111, **Lecture Notes in Civil Engineering**, 2024, Volume 437, p. 672-682, First Online: 31 October 2023, ISSN: 23662557, ISBN: 978-303144327-5, Springer Nature, DOI: 10.1007/978-3-031-44328-2_70.
https://link.springer.com/chapter/10.1007/978-3-031-44328-2_70
- [C.52] COCCHETTI, G., RIZZI, E. (2023), “*Finite-friction effects in self-standing symmetric circular masonry arches*”, Proceedings of 2nd Italian Workshop on Shell and Spatial Structures, IWSS 2023, Castello del Valentino, Facoltà di Architettura, Politecnico di Torino, 26-28 June 2023, Italian Association for Shells and Spatial Structures, Volume Editors: Stefano Gabriele, Amedeo Manuello Bertetto, Francesco Marmo, Andrea Micheletti, Book of Abstracts, 22 June 2023, 1085, p. 112, **Lecture Notes in Civil Engineering**, 2024, Volume 437, p. 683-692, First Online: 31 October

2023, ISSN: 23662557, ISBN: 978-303144327-5, Springer Nature, DOI: 10.1007/978-3-031-44328-2_71.

https://link.springer.com/chapter/10.1007/978-3-031-44328-2_71

- [C.53] FERRARI, R., COCCHETTI, G., RIZZI, E. (2023), “*Effective Limit Analysis computational approaches for the structural characterization of Nervi’s Palazzetto dello Sport*”, Proceedings of 2nd Italian Workshop on Shell and Spatial Structures, IWSS 2023, Castello del Valentino, Facoltà di Architettura, Politecnico di Torino, 26-28 June 2023, Italian Association for Shells and Spatial Structures, Volume Editors: Stefano Gabriele, Amedeo Manuello Bertetto, Francesco Marmo, Andrea Micheletti, Book of Abstracts, 22 June 2023, 1109, p. 137, **Lecture Notes in Civil Engineering**, 2024, Volume 437, p. 827-836, First Online: 31 October 2023, ISSN: 23662557, ISBN: 978-303144327-5, Springer Nature, DOI: 10.1007/978-3-031-44328-2_87.
https://link.springer.com/chapter/10.1007/978-3-031-44328-2_87
- [C.54] CORNAGGIA, A., COCCHETTI, G., FERRARI, R., ABU-SALIH, S., RIZZI, E. (2023), “*Computational elastoplastic structural analysis of carbon nanotubes*”, Abstracts of the NanoInnovation 2023 Conference, Roma, Italy, 18-22 September 2023, Eds. (Organizing Committee) Rossi M., Asinari P., Bersani M., Crescenzi M., Morandi V., Paolino D., Pirri C.F., Porcari A., Tosi G., WS.I - Mini-Symposium Bridging the Gap between Atomistic Modeling and Continuum Mechanics, (Workshop Committee) Trovalusci P., Fantuzzi N., Izadi R., Pingaro M., Università degli Studi di Roma “La Sapienza”.
<https://drive.google.com/drive/folders/1iEabt8xCoPu-mK8vPFhjLVPbgoydCwBp>
- [C.55] FERRARI, R., ZOLA, M., CORNAGGIA, A., RIZZI, E. (2024), “*Advanced signal processing methodology of vibration response data toward Structural Health Monitoring purposes*”, XII International Conference on Structural Dynamics, EURODYN 2023, 02-05 July 2023, Delft, The Netherlands, **Journal of Physics: Conference Series**, Volume 2647, Issue 18, Structural Health Monitoring, Paper 182040, p. 1-10, Published online: 28 June 2024, ISSN: 1742-6596, IOP Publishing Ltd, Bristol, UK, DOI: 10.1088/1742-6596/2647/18/182040.
<https://iopscience.iop.org/article/10.1088/1742-6596/2647/18/182040>
- [C.56] PIZZIGONI, A., BEATINI, V., BEGHINI, A., PARIS, V., COCCHETTI, G., FERRARI, R., RIZZI, E. (2024), “*Fornix: the circular platform-frame*”, Proceedings of the IASS 2024 Symposium, Redefining the Art of Structural Design, August 26-30, 2024, Zurich, Switzerland, Philippe Block, Giulia Boller, Catherine DeWolf, Jacqueline Pauli, Walter Kaufmann (Eds.), WG22 Architectural Geometry, Paper 136, p. 1-10, Published online: 30 August 2024, Proceedings of IASS Annual Symposia, ISSN: 2518-6582, <https://www.ingentaconnect.com/content/iass/piass>, International Association for Shell and Spatial Structures (IASS).
https://app.iass2024.org/files/IASS_2024_Paper_135.pdf
- [C.57] FROIO, D., FERRARI, R., RIZZI, E. (2025), “*Constitutive response and consistency of Lee-Fenves concrete damage-plasticity model under non-proportional loadings*”, Proceedings of FraMCoS XII - Fracture Mechanics for Concrete and Concrete Structures, April 23-25, 2025, TU Wien, Vienna, Austria, B.L.A. Pichler, Ch. Hellmich, P. Preinstorfer (Eds.), accepted, p. 1-11, IA-FraMCoS International Association of Fracture Mechanics for Concrete and Concrete Structures.
<https://framcos.org>

(D) Articles in Proceedings of Italian Conferences:

- [D.1] RIZZI, E. (1993), “*Determinazione analitica e numerica di direzioni di localizzazione in modelli a danneggiamento scalare*” (“*Analytical and numerical evaluation of localization directions for scalar damage models*”, in Italian), Proc. of Settimo Convegno Italiano di Meccanica Computazionale, June 1-3, 1993, Trieste, Italy, AIMETA, Università degli Studi di Trieste, Dipartimento di Ingegneria Civile, p. 309-314.
- [D.2] RIZZI, E. (1994), “*Fracture-energy-based regularization of a scalar damage model*”, in Proc. of Ottavo Convegno Italiano di Meccanica Computazionale, June 15-17, 1994, Torino, Italy, AIMETA, Politecnico di Torino, Dipartimento di Ingegneria Strutturale, p. 107-112.
- [D.3] RIZZI, E., LORET, B. (1997), “*On the inception of strain localization in anisotropic solids and fluid-saturated porous media*”, Proc. of XIII Congresso Nazionale AIMETA, Siena, Italy, September 29-October 3, 1997, Edizioni ETS, Pisa, 1997, Vol. III - Meccanica dei Solidi, p. 161-166.

- [D.4] MAIER, G., CORIGLIANO, A., PAPA, E., RIZZI, E. (1999), “*Mechanical behavior of a syntactic foam/glass fibre composite sandwich: experimental results and numerical simulations*”, Atti XIV Congresso Nazionale AIMETA, Como, Italy, October 6-9, 1999, CD-ROM Proc., 10 pages.
- [D.5] RIZZI, E., HÄHNER, P. (2001), “*Theoretical analysis and numerical modelling of Portevin-Le Châtelier deformation bands*”, XV AIMETA Congress of Theoretical and Applied Mechanics, Taormina, Italy, September 26-29, 2001, ISSN: 1592-8950, CD-ROM Proc., 10 pages.
- [D.6] PIOLDI, F., RIZZI, E. (2015), “*On modal identification of structures from earthquake response signals by a refined Frequency Domain Decomposition approach*”, Atti del XXII Congresso AIMETA - Associazione Italiana di Meccanica Teorica e Applicata, Scuola Politecnica - Sede Architettura - Università di Genova, Genova, 14-17 Settembre 2015, Ed. L. Gambarotta, A. Morro; Book of Abstracts, ISBN: 978-88-97752-55-3, p. 216; CD-ROM Proceedings, ISBN: 978-88-97752-55-4, p. 307-316 (10 pages).
- [D.7] FERRARI, R., COCCHETTI, G., RIZZI, E. (2019), “*New computational Limit Analysis approaches for structural optimization problems*”, Proceedings of the XXIV Conference of the Italian Association of Theoretical and Applied Mechanics - AIMETA 2019, Università degli Studi di Roma “La Sapienza”, Facoltà di Ingegneria Civile e Industriale, 15-19 September 2019, Roma, Italy, Category: MS06-Shell and Spatial Structures, Book of Abstracts, p. 213, <https://www.aimeta.it/index.php/chi-siamo/congressi>.
- [D.8] FERRARI, R., COCCHETTI, G., RIZZI, E. (2024), “*Computational Limit Analysis algorithms for large-scale truss-frame structures with interaction domain*”, Proceedings of the XXVI Conference of the Italian Association of Theoretical and Applied Mechanics - AIMETA 2024, Università degli Studi di Napoli “Federico II”, Ingegneria, 02-06 September 2024, Napoli, Italy, Category: MS07 - Limit analysis, plasticity, instability, and bifurcation, to appear, p. 1-5, XXVI AIMETA Congress, Italian Association of Theoretical and Applied Mechanics (AIMETA), Springer.
- [D.9] COCCHETTI, G., RIZZI, E. (2024), “*Self-standing bearing capacity of symmetric circular masonry arches at finite friction*”, Proceedings of the XXVI Conference of the Italian Association of Theoretical and Applied Mechanics - AIMETA 2024, Università degli Studi di Napoli “Federico II”, Ingegneria, 02-06 September 2024, Napoli, Italy, Category: MS07 - Limit analysis, plasticity, instability, and bifurcation, to appear, p. 1-6, XXVI AIMETA Congress, Italian Association of Theoretical and Applied Mechanics (AIMETA), Springer.

(E) Theses:

- [E.1] RIZZI, E. (1990), “*Simulazione del comportamento viscoplastico di acciai ad alte temperature sotto carichi ciclici: modelli costitutivi e calcolo per elementi finiti*” (“*Simulation of viscoplastic behaviour of steel components at high temperature under cyclic load: constitutive models and finite element computations*”, in Italian), Laurea Thesis, Politecnico di Milano, Milano, Italy, a.y. 1988/1989, 10 April 1990, 314 pages.
- [E.2] RIZZI, E. (1993), “*Localization analysis of damaged materials*”, Master Thesis, Technical Report CU/SR-93/5, University of Colorado at Boulder, CEAE Department, Boulder CO 80309-0428, U.S.A., 24 February 1993, 173 pages.
- [E.3] RIZZI, E. (1995), “*Sulla localizzazione delle deformazioni in materiali e strutture*” (“*On strain localization in materials and structures*”, in Italian), Doctoral Thesis, VI Cycle (joined to VII), Dipartimento di Ingegneria Strutturale, Politecnico di Milano, Milano, Italy, 28 February 1995, 167 pages.

(F) Technical Reports:

- [F.1] CAROL, I., RIZZI, E., WILLAM, K. (1993), “*A unified theory of elastic degradation and damage based on a loading surface*”, Technical Report CU/SR-93/2, CEAE Dept., University of Colorado, Boulder CO 80309-0428, U.S.A., 47 pages, February 1993.
- [F.2] RIZZI, E., CAROL, I., WILLAM, K. (1993), “*Localization analysis of elastic degradation with application to scalar damage*”, Technical Report CU/SR-93/11, CEAE Dept., University of Colorado, Boulder CO 80309-0428, U.S.A., 30 pages, December 1993.

- [F.3] GUZINA, B., RIZZI, E., WILLAM, K., PAK, R.Y.S. (1994), “*Failure detection of smeared crack formulations*”, *Technical Report CU/SR-94/1*, CEAE Dept., University of Colorado, Boulder CO 80309-0428, U.S.A., 35 pages, January 1994.
- [F.4] RIZZI, E., WILLAM, K. (1995), “*Rank-one updates and failure indicators in multi-dissipative materials*”, *Technical Report CU/SR-95/1*, CEAE Dept., University of Colorado, Boulder CO 80309-0428, U.S.A., 27 pages, January 1995.
- [F.5] CAROL, I., RIZZI, E., WILLAM, K. (1998), “*On the formulation of anisotropic degradation using a pseudo-logarithmic damage tensor*”, *Technical Report CU/SR-98/1*, CEAE Dept., University of Colorado, Boulder CO 80309-0428, U.S.A., 58 pages, January 1998.
- [F.6] CAROL, I., RIZZI, E., WILLAM, K. (1999), “*An ‘extended’ formulation of isotropic and anisotropic damage with evolution laws in pseudo-log space*”, *Technical Report CU/SR-99/4*, CEAE Dept., University of Colorado, Boulder CO 80309-0428, U.S.A., 46 pages, January 1999.
- [F.7] RIZZI, E., CAROL, I. (2001), “*Tensor formalism in the formulation of elastic degradation and damage*”, *Technical Report GT-022*, ETSECCPB-UPC, Technical University of Catalunya, E-08034 Barcelona, Spain, 29 pages, December 2001.
- [F.8] CAROL, I., RIZZI, E., WILLAM, K. (2002), “*An ‘extended’ volumetric/deviatoric formulation of anisotropic damage based on a pseudo-log rate*”, *Technical Report GT-023*, ETSECCPB-UPC, Technical University of Catalunya, E-08034 Barcelona, Spain, 43 pages, January 2002.
- [F.9] RIZZI, E., CAROL, I. (2002), “*Dual orthotropic damage-effect tensors with complementary structures*”, *Technical Report GT-024*, ETSECCPB-UPC, Technical University of Catalunya, E-08034 Barcelona, Spain, 47 pages, February 2002.
- [F.10] HÄHNER, P., RIZZI, E. (2002), “*On the kinematics of Portevin–Le Chatelier deformation bands: theoretical modeling and numerical results*”, *Technical Report 06/2002*, Department of Engineering, <https://www.unibg.it/ugov/person/2966>, University of Bergamo, I-24044 Dalmine (BG), Italy, 30 pages, December 2002.
- [F.11] BARJA, M.A., CAROL, I., PLANAS-VILANOVA, F., RIZZI, E. (2003), “*The representation problem of pairs of symmetric second-order tensors in the context of Solid Mechanics*”, *Mathematics Preprint Series 343/2003*, IMUB, <http://www.imub.ub.es>, Institut de Matemàtica, Universitat de Barcelona, E-08007 Barcelona, Spain, 12 pages, December 2003.
- [F.12] COCCHETTI, G., COLASANTE, G., RIZZI, E. (2011), “*On the analysis of minimum thickness in circular masonry arches*”, *Technical Report SdC2011/01*, Department of Design and Technologies, University of Bergamo, <https://www.unibg.it/ugov/person/2966>, I-24044 Dalmine (BG), Italy, ISBN: 978-88-905817-0-0, 105 pages, January 2011.
- [F.13] RIZZI, E., RUSCONI, F., COCCHETTI, G. (2011), “*Numerical DEM (DDA) analysis on the collapse mode of circular masonry arches*”, *Technical Report SdC2011/02*, Department of Design and Technologies, University of Bergamo, <https://www.unibg.it/ugov/person/2966>, I-24044 Dalmine (BG), Italy, ISBN: 978-88-905817-1-7, 46 pages, March 2011.
- [F.14] FERRARI, R., RIZZI, E. (2011), “*Analisi strutturale del ponte in ferro di Paderno d’Adda (1889)*”, *Technical Report SdC2011/03*, Department of Design and Technologies, University of Bergamo, <https://www.unibg.it/ugov/person/2966>, I-24044 Dalmine (BG), Italy, ISBN: 978-88-905817-2-4, 97 pages, June 2011.
- [F.15] GAMBIRASIO, L., CHIANTONI, G., RIZZI, E. (2011), “*Elastoplastic constitutive modeling of metallic materials at finite strains: FEM numerical responses from different constitutive models*”, *Technical Report SdC2011/04*, Department of Design and Technologies, University of Bergamo, <https://www.unibg.it/ugov/person/2966>, I-24044 Dalmine (BG), Italy, ISBN: 978-88-905817-3-1, 240 pages, September 2011.
- [F.16] SALVI, J., RIZZI, E. (2011), “*Numerical tuning of Tuned Mass Dampers under earthquake loading*”, *Technical Report SdC2011/05*, Department of Design and Technologies, University of Bergamo, <https://www.unibg.it/ugov/person/2966>, I-24044 Dalmine (BG), Italy, ISBN: 978-88-905817-4-8, 35 pages, November 2011.

- [F.17] ARIZZI, F., RIZZI, E. (2011), “*Identificazione parametrica di materiali elastoplastici mediante prove di indentazione statica e dinamica*”, *Technical Report SdC2011/06*, Department of Design and Technologies, University of Bergamo, <https://www.unibg.it/ugov/person/2966>, I-24044 Dalmine (BG), Italy, ISBN: 978-88-905817-5-5, 73 pages, December 2011.
- [F.18] ARIZZI, F., RIZZI, E. (2012), “*Parameter identification of elastoplastic materials by simulation of static and dynamic indentation tests*”, *Technical Report SdC2012/01*, Department of Engineering, University of Bergamo, <https://www.unibg.it/ugov/person/2966>, I-24044 Dalmine (BG), Italy, ISBN: 978-88-905817-6-2, 42 pages, March 2012.
- [F.19] GAMBIRASIO, L., RIZZI, E. (2013a), “*On the Constitutive Modeling of Strain Rate and Temperature Dependent Materials. Part I - Calibration Strategies of the Johnson-Cook Strength Model: Discussion and Applications to Experimental Data*”, *Technical Report SdC2013/01*, Department of Engineering, University of Bergamo, <https://www.unibg.it/ugov/person/2966>, I-24044 Dalmine (BG), Italy, ISBN: 978-88-905817-7-9, 108 pages, November 2013.
- [F.20] GAMBIRASIO, L., RIZZI, E. (2013b), “*On the Constitutive Modeling of Strain Rate and Temperature Dependent Materials. Part II - An Enhanced Johnson-Cook Strength Model for Splitting Strain Rate and Temperature Effects on Lower Yield Stress and Plastic Flow*”, *Technical Report SdC2013/02*, Department of Engineering, University of Bergamo, <https://www.unibg.it/ugov/person/2966>, I-24044 Dalmine (BG), Italy, ISBN: 978-88-905817-8-6, 88 pages, November 2013.
- [F.21] SALVI, J., RIZZI, E., RUSTIGHI, E., FERGUSON, N.S. (2014), “*Optimum passive and hybrid Tuned Mass Dampers for structural systems under impulse excitation*”, *Technical Report SdC2014/01*, Department of Engineering and Applied Sciences, University of Bergamo, <https://www.unibg.it/ugov/person/2966>, I-24044 Dalmine (BG), Italy, ISBN: 978-88-905817-9-3, 30 pages, December 2014.
- [F.22] GAMBIRASIO, L., MIRABELLA ROBERTI, G., RIZZI, E., (2015), “*Simulation of Shear Response of Masonry Panels Under Flat-Jack Testing*”, *Technical Report*, University of Bergamo, 19 pages, March 2015; also presented as ReLUIS Report (Rete dei Laboratori Universitari di Ingegneria Sismica): “*Rapporto sulle simulazioni numeriche di prove di taglio con martinetti piatti su pannelli di muratura*”, ReLUIS 2014 - Linea Costruzioni in Muratura, Temi Generali e Temi Territoriali, Prodotto della ricerca 1-1b, Progettazione prove sperimentali e definizione dei protocolli di esecuzione, 03_WP1_1-1b_UNIBG, 2015.

(G) Teaching Texts:

- [G.1] RIZZI, E. (2003), “*Alcune nozioni fondamentali sul metodo degli elementi finiti in meccanica dei solidi*”, Note per il Corso di Aggiornamento “Dal disegno alla modellazione agli elementi finiti di componenti strutturali”, Università di Bergamo, Facoltà di Ingegneria (Dalmine), disponibile on-line, <https://www.unibg.it/ugov/person/2966>, 18 pagine.
- [G.2] RIZZI, E. (2005), “*Statica di Aste Autoportanti*”, Università di Bergamo, Facoltà di Ingegneria (Dalmine), disponibile on-line, <https://www.unibg.it/ugov/person/2966>, 21 pagine manoscritte.
- [G.3] RIZZI, E. (2006), “*Tracce delle Lezioni di Scienza delle Costruzioni*”, Università di Bergamo, Facoltà di Ingegneria (Dalmine), disponibili on-line, <https://www.unibg.it/ugov/person/2966>, 142 pagine manoscritte.
- [G.4] RIZZI, E. (2010), “*Tracce delle Lezioni di Complementi di Scienza delle Costruzioni*”, Università di Bergamo, Facoltà di Ingegneria (Dalmine), disponibili on-line, <https://www.unibg.it/ugov/person/2966>, 59 pagine manoscritte.
- [G.5] RIZZI, E. (2011), “*Tracce delle Lezioni di Dinamica, Instabilità e Anelasticità delle Strutture*”, Università di Bergamo, Facoltà di Ingegneria (Dalmine), disponibili on-line presso il sito <https://www.unibg.it/ugov/person/2966>, 65 pagine manoscritte.
- [G.6] GHILARDI, F.M., RIZZI, E. (2012), “*Complementi di Scienza delle Costruzioni – Raccolta di Esercizi*”, Università di Bergamo, Facoltà di Ingegneria (Dalmine), disponibili on-line presso il sito <https://www.unibg.it/ugov/person/2966>, 187 pagine.

(H) Supervised Laurea Theses:

Co-Advisor, Facoltà di Ingegneria, Politecnico di Milano:

- {H.1} LARIA Mariacristina, “*Sulla localizzazione in compressione uniassiale del calcestruzzo*”, Laurea in Ingegneria Civile, Relatore M. di Prisco, Correlatori P.G. Gambarova, E. Rizzi, Politecnico di Milano, a.a. 1996/1997.
- {H.2} BARONCIONI Ivan, “*Comportamento meccanico di un materiale composito con matrice epossidica e microsfere di vetro: modelli costitutivi, loro calibrazione su basi sperimentali e simulazioni per elementi finiti*”, Laurea in Ingegneria Civile, Relatori G. Maier, E. Rizzi, Politecnico di Milano, a.a. 1997/1998, 21 Dicembre 1998, 100/100 e Lode.
- {H.3} FERRARI Paolo, “*Simulazioni del comportamento anelastico quasi-fragile di un materiale composito a matrice polimerica: studio critico comparativo*”, Laurea in Ingegneria Civile, Relatori G. Maier, E. Rizzi, Politecnico di Milano, a.a. 1998/1999, 7 Giugno 1999, 95/100.

Advisor, Scuola di Ingegneria (Dalmine), Università degli studi di Bergamo:

- {H.4} SANGALLI Stefania, “*Modellazione della biomeccanica corneale in chirurgia refrattiva*”, Laurea (Triennale) in Ingegneria Meccanica, Relatore E. Rizzi, a.a. 2004/2005, 3 Ottobre 2005, 110/110 e Lode, 260 pagine.
- {H.5} FERRARI Rosalba, “*Sulla concezione strutturale ottocentesca del ponte in ferro di Paderno d’Adda secondo la teoria dell’ellisse d’elasticità*”, Laurea (Triennale) in Ingegneria Edile, Relatore E. Rizzi, a.a. 2005/2006, 21 Dicembre 2006, 110/110 e Lode, 228 pagine. Premio di Laurea dell’Associazione “Carlo Maddalena”, Milano, quale miglior tesi di laurea in ingegneria, bando per sei borse di studio per giovani laureati delle Facoltà di Architettura ed Ingegneria, 2007.
- {H.6} COLASANTE Giada, “*Sui meccanismi di collasso degli archi in muratura secondo l’analisi limite*”, Laurea (Triennale) in Ingegneria Edile, Relatore E. Rizzi, Correlatore G. Cocchetti, a.a. 2006/2007, 21 Dicembre 2007, 110/110 e Lode, 175 pagine. Premio di Laurea dell’Associazione “Carlo Maddalena”, Milano, quale miglior tesi di laurea in ingegneria, bando per cinque borse di studio per giovani laureati delle Facoltà di Architettura ed Ingegneria, 2008.
- {H.7} RUSCONI Fabio, “*Analisi numerica per elementi discreti dei meccanismi di collasso degli archi in muratura*”, Laurea (Triennale) in Ingegneria Edile, Relatore E. Rizzi, a.a. 2006/2007, 27 Febbraio 2008, 102/110, 126 pagine.
- {H.8} BRESCIANINI Daniele, SCOTTI Matteo, “*Analisi della risposta dinamica di sistemi strutturali con assorbitori a massa accordata*”, Laurea Specialistica in Ingegneria Edile, Relatore E. Rizzi, a.a. 2006/2007, 27 Febbraio 2008, entrambi 110/110 e Lode, 134 pagine.
- {H.9} FERRARI Rosalba, “*Analisi strutturale degli elementi portanti del ponte di Paderno d’Adda*”, Laurea Specialistica in Ingegneria Edile, Relatore E. Rizzi, a.a. 2008/2009, 24 Settembre 2009, 110/110 e Lode, 108 pagine.
- {H.10} FACHERIS Giovanni Mattia, “*Analisi morfologica e modellazione per elementi finiti della pila sull’arco del ponte di Paderno d’Adda*”, Laurea (Triennale) in Ingegneria Edile, Relatore E. Rizzi, Correlatore R. Ferrari, a.a. 2008/2009, 24 Settembre 2009, 102/110, 125 pagine.
- {H.11} CHIODI Paolo, GAMBIRASIO Luca, “*Simulazione numerica in deformazioni finite di provini metallici soggetti a torsione*”, Laurea Specialistica in Ingegneria Meccanica, Relatore E. Rizzi, a.a. 2008/2009, 24 Settembre 2009, rispettivamente 106/110 e 110/110 e Lode, 512 pagine.
- {H.12} FRIGERIO Annalisa, “*Sul meccanismo di collasso misto negli archi semicircolari in muratura*”, Laurea (Triennale) in Ingegneria Edile, Relatore E. Rizzi, Correlatore G. Colasante, a.a. 2008/2009, 4 Marzo 2010, 102/110, 130 pagine.
- {H.13} SALVI Jonathan, “*Sull’ottimizzazione parametrica di dispositivi Tuned Mass Damper fini al controllo strutturale*”, Laurea Specialistica in Ingegneria Edile, Relatore E. Rizzi, a.a. 2008/2009, 4 Marzo 2010, 108/110, 243 pagine. Premio di Laurea dell’Associazione “Carlo Maddalena”, Milano, bando per cinque borse di studio per giovani laureati delle Facoltà di Architettura ed Ingegneria, 2010.

- {H.14} ARIZZI Fabio, “*Identificazione parametrica di materiali elastoplastici mediante analisi inversa di prove d’indentazione*”, Laurea Specialistica in Ingegneria Meccanica, Relatore E. Rizzi, a.a. 2009/2010, 07 Maggio 2010, 110/110 e Lode, 199 pagine.
- {H.15} COLASANTE Giada, “*Sul ruolo dell’attrito nei meccanismi di collasso degli archi circolari in muratura*”, Laurea Specialistica in Ingegneria Edile, Relatore E. Rizzi, Correlatore G. Cocchetti, a.a. 2009/2010, 17 Settembre 2010, 110/110 e Lode, 213 pagine.
- {H.16} ZANCHI Daniel Mauro, ZANONI Davide, “*Identificazione dinamica modale di strutture mediante tecniche basate sul solo segnale di risposta*”, Laurea Specialistica in Ingegneria Edile, Relatore E. Rizzi, Correlatore R. Ferrari, a.a. 2010/2011, 15 Luglio 2011, entrambi 108/110, 255 pagine.
- {H.17} GAVAZZENI Michele, “*Sul controllo ottimale della risposta sismica mediante dispositivi Tuned Mass Damper*”, Laurea Specialistica in Ingegneria Edile, Relatore E. Rizzi, Correlatore J. Salvi, a.a. 2010/2011, 19 Dicembre 2011, 110/110, 271 pagine.
- {H.18} PIOLDI Fabio, “*Sulla stima dello smorzamento modale mediante algoritmo Frequency Domain Decomposition*”, Laurea (Triennale) in Ingegneria Edile, Relatore E. Rizzi, a.a. 2010/2011, 29 Febbraio 2012, 110/110 e Lode, 169 pagine. Premio di Laurea dell’Associazione “Carlo Maddalena”, Milano, bando per cinque premi di laurea per giovani laureati in Architettura ed in Ingegneria edile, 2012.
- {H.19} PE’ Giuseppe, “*Implementazione di un modello costitutivo di danno anisotropo per materiali ‘quasi-fragili’*”, Laurea Magistrale in Ingegneria Edile, Relatore E. Rizzi, Correlatore I. Carol (UPC-Barcelona), a.a. 2011/2012, 27 Marzo 2013, 108/110, 162 pagine.
- {H.20} PEZZOLI Dario, “*Studio e implementazione di metodi Model Order Reduction nell’analisi dinamica modale delle strutture*”, Laurea (Triennale) in Ingegneria Edile, Relatore E. Rizzi, Correlatore R. Ferrari, a.a. 2012/2013, 17 Dicembre 2013, 97/110, 137 pagine.
- {H.21} PIOLDI Fabio, “*Sulla formulazione di algoritmi ottimizzati di identificazione dinamica modale e loro applicazione in ambito sismico*”, Laurea Magistrale in Ingegneria Edile, Relatore E. Rizzi, a.a. 2012/2013, 17 Dicembre 2013, 110/110 e Lode, 359 pagine.
- {H.22} PULCINI Marco, “*Analisi numeriche sull’efficacia dei dispositivi Tuned Mass Damper in ambito sismico*”, Laurea (Triennale) in Ingegneria Edile, Relatore E. Rizzi, Correlatore J. Salvi, a.a. 2012/2013, 24 Marzo 2014, 91/110, 138 pagine.
- {H.23} RAVIZZA Gabriele, “*Sulla risposta dinamica di sistemi strutturali indotta da vortex shedding*”, Laurea (Triennale) in Ingegneria Edile, Relatore E. Rizzi, Correlatore J. Salvi, a.a. 2012/2013, 24 Marzo 2014, 100/110, 149 pagine.
- {H.24} NERONE Anna, “*On the Effectiveness of Tuned Mass Dampers in Reducing Vortex-Shedding Vibrations of Suspended Bridges*”, Laurea Magistrale in Ingegneria Edile, Relatori E. Rizzi, E.N. Strømmen (NTNU, Trondheim, Norway), Correlatore J. Salvi, a.a. 2013/2014, 09 Giugno 2014, 110/110 e Lode, 199 pagine.
- {H.25} FROIO Diego, ZANCHI Roberto, “*Finite element modelization and modal dynamic analyses of an historical reinforced concrete bridge with parabolic arches*”, Laurea Magistrale in Ingegneria Edile, Relatore E. Rizzi, Correlatore R. Ferrari, a.a. 2013/2014, rispettivamente 30 Settembre 2014 e 1 Aprile 2015, entrambi 110/110 e Lode, 228 pagine. Premio di Laurea dell’Associazione “Carlo Maddalena”, Milano, bando per cinque premi di laurea per giovani laureati in Architettura ed in Ingegneria edile, 2015.
- {H.26} CASTELLI Simone, ROTA Luca, “*Applicazione di algoritmo refined Frequency Domain Decomposition volta all’identificazione dinamica modale mediante input sismico*”, Laurea (Triennale) in Ingegneria Edile, Relatore E. Rizzi, Correlatore F. Pioldi, a.a. 2013/2014, 31 Marzo 2015, entrambi 95/110, 188 pagine.
- {H.27} CARRARA Michele, “*Modellazione dell’interazione suolo-struttura per telai shear-type in ambito sismico*”, Laurea (Triennale) in Ingegneria Edile, Relatore E. Rizzi, Correlatore F. Pioldi, a.a. 2014/2015, 30 Marzo 2016, 88/110, 185 pagine.
- {H.28} MOIOLI Roberto Giuseppe, “*Numerical analysis of beams on nonlinear Winkler elastic foundations under moving load*”, Laurea Magistrale in Ingegneria Meccanica, Relatore E. Rizzi, Correlatore D. Froio, a.a. 2014/2015, 31 Marzo 2016, 110/110 e Lode, 213 pagine.

- {H.29} PANSIERI Simone, “*Time domain output-only modal dynamic Stochastic Subspace Identification algorithm for seismic applications*”, Laurea Magistrale in Ingegneria Edile, Relatore E. Rizzi, Correlatore F. Pioldi, a.a. 2014/2015, 31 Marzo 2016, 106/110, 205 pagine.
- {H.30} RUSCONI Fabio, “*Discontinuous Deformation Analysis de ”la coupe des pierres” nei meccanismi di collasso degli archi in muratura*”, Laurea Magistrale in Ingegneria Edile, Relatore E. Rizzi, a.a. 2014/2015, 31 Marzo 2016, 101/110, 104 pagine.
- {H.31} RAVIZZA Gabriele, “*Dynamic response estimation by heterogeneous data fusion via Kalman filter adaptation*”, Laurea Magistrale in Ingegneria Edile, Relatore E. Rizzi, Correlatore R. Ferrari, a.a. 2015/2016, 31 Marzo 2017, 110/110 e Lode, 185 pagine.
- {H.32} VERZEROLI Luca, “*A parallel FEM implementation for moving load problems*”, Laurea Magistrale in Ingegneria Meccanica, Relatore E. Rizzi, Correlatore D. Froio, a.a. 2016/2017, 20 Dicembre 2017, 110/110 e Lode, 143 pagine.
- {H.33} BREVI Gabriele, CORTINOVIS Fabio Giacomo, “*Elaborazione di un modello strutturale accurato del ponte in ferro di Paderno d’Adda*”, Laurea (Triennale) in Ingegneria Edile, Relatore E. Rizzi, Correlatore R. Ferrari, a.a. 2016/2017, 28 Marzo 2018, rispettivamente 98/110 e 101/110, 162 pagine.
- {H.34} PASSERA Davide, “*An implementation for second-order geometrical effects and stiffness adaptation in frame elements*”, Laurea Magistrale in Ingegneria Edile, Relatore E. Rizzi, Correlatori C.G. Chiorean, R. Ferrari, a.a. 2018/2019, 19 Dicembre 2019, 110/110 e Lode, 132 pagine.
- {H.35} PELLEGRINI Stefano, “*A numerical modelization approach toward structural optimization appraised on Nervi’s Palazzetto dello Sport*”, Laurea Magistrale in Ingegneria Edile, Relatore E. Rizzi, Correlatore R. Ferrari, a.a. 2018/2019, 19 Dicembre 2019, 110/110 e Lode, 206 pagine.

(I) Supervised Doctoral Theses:

Advisor, Scuola di Ingegneria, Università degli studi di Bergamo:

- {I.1} FERRARI Rosalba, “*An Elastoplastic Finite Element Formulation for the Structural Analysis of Truss Frames with Application to a Historical Iron Arch Bridge*”, Doctoral Thesis, Doctoral School in Mechatronics, Information Technology, New Technologies and Mathematical Methods, University of Bergamo, Department of Engineering, Advisor E. Rizzi, Co-advisor G. Cocchetti, XXV Cycle, 15 April 2013, 135 pages. DOI: http://dx.doi.org/10.13122/ferrari-rosalba_phd2013-04-15.
<https://aisberg.unibg.it/handle/10446/28959>
- {I.2} GAMBIRASIO Luca, “*Large Strain Computational Modeling of High Strain Rate Phenomena in Perforating Gun Devices by Lagrangian/Eulerian FEM Simulations*”, Doctoral Thesis, Doctoral School in Engineering of Civil and Mechanical Structural Systems, University of Trento / University of Bergamo, Department of Engineering, Advisor E. Rizzi, XXV Cycle, 29 April 2013, 268 pages.
<http://eprints-phd.biblio.unitn.it/955>
- {I.3} SALVI Jonathan, “*Optimisation of Tuned Mass Damper Devices Towards Structural Vibration Reduction: Theoretical Settings and Numerical Analyses*”, Doctoral Thesis, Doctoral School in Mechatronics, Information Technology, New Technologies and Mathematical Methods, University of Bergamo, Department of Engineering, Advisor E. Rizzi, XXVI Cycle, 08 May 2014, 270 pages. DOI: http://dx.doi.org/10.13122/salvi-jonathan_phd2014-05-08.
<https://aisberg.unibg.it/handle/10446/224063>
- {I.4} ARIZZI Fabio, “*Integrated Experimental and Modelling Approach for the Characterization of Thermo-Tribological Phenomena in Hot Rolling Processes*”, Doctoral Thesis, Doctoral School in Mechatronics, Information Technology, New Technologies and Mathematical Methods, University of Bergamo, Department of Engineering and Applied Sciences, Advisor E. Rizzi, XXVI Cycle, 21 April 2015, 177 pages. DOI: http://dx.doi.org/10.13122/arizzi-fabio_phd2015-04-21.
<https://aisberg.unibg.it/handle/10446/72271>

- {I.5} PIOLDI Fabio, “*Time and Frequency Domain output-only system identification from earthquake-induced structural response signals*”, Doctoral Thesis, Doctoral School in Engineering and Applied Sciences, University of Bergamo, Department of Engineering and Applied Sciences, Advisor E. Rizzi, XXIX Cycle (2013-2016), 10 May 2017, 202 pages. DOI: https://doi.org/10.6092/TDUnibg_77137.
<https://aisberg.unibg.it/handle/10446/77137>
- {I.6} FROIO Diego, “*Structural dynamics modelization of one-dimensional elements on elastic foundations under fast moving load*”, Doctoral Thesis, Doctoral School in Engineering and Applied Sciences, University of Bergamo, Department of Engineering and Applied Sciences, Advisor E. Rizzi, Co-Advisor F.M.F. Simões, XXX Cycle (2014-2017), 21 March 2018, 248 pages. DOI: https://doi.org/10.6092/TDUnibg_105179.
<https://aisberg.unibg.it/handle/10446/105179>
- {I.7} RAVIZZA Gabriele, “*Modal dynamic identification of civil structures via inverse analysis based on Heterogeneous Data Fusion and post-processing*”, Doctoral Thesis, Doctoral School in Engineering and Applied Sciences, University of Bergamo, Department of Engineering and Applied Sciences, Advisor E. Rizzi, Co-advisor R. Ferrari, XXXIII Cycle (2017-2020), 17 May 2021, 254 pages. DOI: http://dx.doi.org/10.13122/ravizza-gabriele_phd2021-05-17.
<https://aisberg.unibg.it/handle/10446/183099>