

LIST OF PUBLICATIONS

A) PHD Thesis

- A. Di Egidio, 'Un modello nonlineare di trave a sezione aperta per l'analisi delle oscillazioni flessio-torsionali di grande ampiezza', *Ph.D Thesis*, Università degli Studi di Roma "La Sapienza", 1997 (in Italian).

B) Papers on Journal or edited volumes

- *National*

- 1) A. Di Egidio, F. Vestroni, 'L'oscillatore semplice isolato', *Ingegneria Sismica*, n.1, 1993, pp. 3-9.
- 2) M. Centofanti, R. Continenza, P. De Berardinis, A. Di Egidio, D. Dominici, D. Galeota, V. Gattulli, R. Morganti, G. Totani, 'Miglioramento Sismico e Recupero di Palazzo Camponeschi', in *L'Università e la ricerca per l'Abruzzo - Il patrimonio culturale dopo il terremoto del 6 aprile 2009* (a cura di Luciano Marchetti, Presidenza del Consiglio dei Ministri, Vice Commissario delegato per la tutela dei beni culturali), *Arte Architettura e Archeologia*, Collana di Studi e Ricerche, Textus s.r.l. casa editrice, L'Aquila, 265-271, 2011, ISBN 978-88-87132-80-9.

- *International*

- 3) A. Di Egidio, A. Luongo, F. Vestroni, 'Nonstationary Nonplanar Free Motions of an Orbiting String with Multiple Internal Resonances', *Meccanica*, n. 31, 1996, pp. 363-381.
- 4) A. Luongo, A. Paolone, A. Di Egidio, 'Sensitivity and Linear Stability Analysis Around a Double Zero Eigenvalues', *AIAA Journal*, vol. 38, no. 4, 2000, pp. 702-710.
- 5) A. Luongo, A. Di Egidio, A. Paolone, 'On the Proper Form of the Amplitude Modulation Equations for Resonant Systems', *Nonlinear Dynamics*, 27, 237-254, 2002.
- 6) A. Luongo, A. Di Egidio, A. Paolone, 'Multiple Scale Bifurcation Analysis for Finite-Dimensional Autonomous Systems', *Recent Research Developments in Sound & Vibration*, 1, Transworld Research Network, Kerala, India, ISBN: 81-7895-031-6, pp. 161-201, 2002.
- 7) A. Di Egidio, A. Luongo, F. Vestroni, 'A Nonlinear Model for Open Cross-Section Thin-Walled Beams - Part I: Formulation', *Int. Journal of Non-Linear Mechanics*, Vol. 38/7, pp 1067-1081, 2003.
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- 9) A. Luongo, A. Paolone, A. Di Egidio, 'Multiple Time Scales Analysis for 1:2 and 1:3 Resonant Hopf Bifurcations', *Nonlinear Dynamics*, Vol. 34, Issue 3-4, pp 269-281, 2003 (Special Issue in Honor of Professor Dean T. Mook).
- 10) A. Luongo, A. Paolone, A. Di Egidio, 'Qualitative analysis of classes of motion for multiresonant systems I. An algebraic method', *Acta Meccanica*, vol. 174, n. 1-2, pp. 91-107, 2005.
- 11) A. Luongo, A. Paolone, A. Di Egidio, 'Luongo, A., Di Egidio, A., Paolone, A., 'Qualitative analysis of classes of motion for multiresonant systems II. A geometrical method', *Acta Meccanica*, vol. 174, n. 1-2, pp. 109-124, 2005.
- 12) A. Luongo, A. Di Egidio, A. Paolone, 'Multiple Time Scale Analysis for Bifurcation from a Multiple-Zero Eigenvalue', *AIAA Journal*, vol. 41, no. 6, 2003, pp. 1143-1150.
- 13) A. Luongo, A. Paolone, A. Di Egidio, 'Computational Problems in Multiple Scale Analysis', *Recent Research Developments in Sound & Vibration*, 2, (edited by A. Luongo) Transworld Research Network, Kerala, India, ISBN: 81-7736-186-4, pp. 1-31, 2003.
- 14) A. Luongo, A. Di Egidio, A. Paolone, 'Multiscale Analysis of Defective Multiple-Hopf Bifurcations', *Computer&Structures*, vol. 82, n. 31-32, pp. 2705-2722, 2004.
- 15) A. Luongo, A. Di Egidio, 'Bifurcation Equations through Multiple-Scales Analysis for a Continuous Model of a Planar Beam', *Nonlinear Dynamics*, vol. 41, n. 1-3, pp. 171-190, 2005.
- 16) A. Luongo, A. Di Egidio, 'Divergence, Hopf and Double-Zero Bifurcations of a Nonlinear Planar Beam', *Computer&Structures*, vol. 84, n. 24-25, pp. 1596-1605, 2006.
- 17) A. Di Egidio, A. Luongo, A. Paolone, 'Linear and Nonlinear Interactions Between Static and Dynamic Bifurcations of Damped Planar Beams', *Int. Journal of Non-Linear Mechanics*, vol. 42, pp. 88-98, 2007.
- 18) A. Contento, A. Di Egidio, 'Investigations into Benefits of Base Isolation for Non-Symmetric Rigid Blocks', *Earthquake Engineering and Structural Dynamics*, vol.38, pp.849-66, 2009.
- 19) A. Contento, A. Di Egidio, J. Zdizdic, A. Tatone, 'Modeling the Contact of Stiff and Soft Bodies with a Rigid Support by Short Range Force Fields', *TASK Quarterly*, vol. 13 n.1, pp. 1001-1027, 2009.
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- 21) A. Di Egidio, A. Contento, 'Seismic response of a non-symmetric rigid block on a constrained oscillating base' *Engineering Structures*, vol. 32, pp. 3028-3039, 2010.
- 22) A. Tatone, A. Di Egidio, A. Contento, 'Dynamics of a Soft Contractile Body on a Hard Support, *Trends in Computational Contact Mechanics – Lecture Notes in Applied and Computational Mechanics* (edited by G. Zavarise, P. Wriggers), Springer, ISBN: 978-3-642-22166-8, pp 193-210, 2011.
- 23) A. Di Egidio, F. Vestroni, 'Static behavior and bifurcation of a monosymmetric open cross-section thin-walled beam: Numerical and experimental analysis', *International*

Journal of Solids and Structures, Vol. 48, pp. 1894–1905, 2011.

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- 25) A. Contento, A. Di Egidio, 'Seismic protection of monolithic objects of art using a constrained oscillating base', *Advances in Geotechnical Earthquake Engineering - Soil Liquefaction and Seismic Safety of Dams and Monuments* (edited by Abbas Moustafa), InTech – Open access publisher, ISBN: 978-953-51-0025-6, 333-358, 2012.
- 26) A. Contento, D. Zulli, A. Di Egidio, 'Seismic behavior of monolithic objects of art: a 3D approach', *Engineering Seismology, Geotechnical and Structural Earthquake Engineering*, (edited by Sebastiano D'Amico), InTech – Open access publisher, ISBN 978-953-51-1038-5, 2013.
- 27) A.P. Seyranian, A. Di Egidio, A. Contento, A. Luongo, 'Solution to the problem of Nicolai', *Journal of Sound and Vibration*, Vol. 333(7), pp. 1932-1944, 2014.
- 28) A. Di Egidio, D. Zulli, A. Contento, 'Comparison between the seismic response of 2D and 3D models of rigid blocks', *Earthquake Engineering and Engineering Vibration*, Vol. 13, pp. 151-162, 2014.
- 29) A. Contento, A. Di Egidio, 'On the use of base isolation for the protection of rigid bodies placed on a multi-storey frame under seismic excitation', *Engineering Structures*, Vol. 62-63, pp. 1-10, 2014.
- 30) A.M. de Leo, A. Contento, A. Di Egidio, 'Semi-analytical approach for the study of static behaviour and buckling of shells with single constant curvature', *Continuum Mechanics and Thermodynamics*, Special Issue: Nonlinearities, Bifurcation and Instabilities, Vol. 27, pp. 767–785, 2015.
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- 33) A. Di Egidio, R. Alaggio, A. Contento, Marco Tursini, E. Della Loggia, 'Experimental characterization of the overturning of three-dimensional square based rigid block', *Int. Journal of Non-Linear Mechanics*, Vol. 69, pp. 137-145, 2015.
- 34) S. Chirivì, T. Ibell, A. Contento, A. Di Egidio, 'Linear static behavior of curved beams coupled with strings representing also fiber-reinforced masonry arches', *Advances in Structural Engineering*, Vol. 19(1), pp. 53-64, 2016.
- 35) A. Di Egidio, A. Contento, F. Vestroni, 'The role of nonlinear torsional contributions on the stability of flexural-torsional oscillations of open-cross section beams', *Journal of Sound and Vibration*, Vol. 358, pp. 236–250, 2015.
- 36) G. Simoneschi, A. Di Egidio, A.M. de Leo, A. Contento, 'On the use of reinforcing layers to improve the static behaviour of arches or shells with single curvature', *Advances in Structural Engineering*, Vol. 19(8), pp. 1302-1312, 2016.
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- 38) A.M. de Leo, A. Di Egidio, A. Contento, 'Parametric study of the distribution of the tensile stresses in pavilion structures constituted by four sectors of barrel shells', *Meccanica*, Vol. 52(10), pp. 2293–2305, 2017.
 - 39) A.M. de Leo, G. Simoneschi, C. Fabrizio, A. Di Egidio, "On the use of a pendulum as mass damper to control the rocking motion of a rigid block with fixed characteristics", *Meccanica*, Vol. 51, pp. 2727–2740, 2016.
 - 40) G. Simoneschi, A.M. de Leo, A. Di Egidio, 'Effectiveness of oscillating mass damper system in the protection of rigid blocks under impulsive excitation', *Engineering Structures*, Vol. 137, pp. 285-295, 2017.
 - 41) G. Simoneschi, A. Geniola, A.M. de Leo, A. Di Egidio, 'On the seismic performances of rigid-block-like structures coupled with an oscillating mass working as a TMD', *Earthquake Engineering and Structural Dynamics*, Vol. 46, pp. 1453-1469, 2017.
 - 42) A. Di Egidio, A.M. de Leo, G. Simoneschi, 'Effectiveness of mass-damper dynamic absorber on rocking block under one-sine pulse ground motion', *Int. Journal of Non-Linear Mechanics*, Vol. 98, pp. 154-162, 2018.
 - 43) G. Simoneschi, C. Olivieri, A.M. de Leo, A. Di Egidio, 'Pole placement method to control the rocking motion of rigid blocks', *Engineering Structures*, Vol. 167, pp. 39-47, 2018.
 - 44) C. Fabrizio, A.M. de Leo, A. Di Egidio, 'Tuned mass damper and base isolation: a unitary approach for the seismic protection of conventional frame structures', *Journal of Engineering Mechanics*, Vol. 145(4), 2019 (doi: 10.1061/(ASCE)EM.1943-7889.0001581).
 - 45) A. Contento, P. Gardoni, A. Di Egidio, A.M. de Leo, 'Probabilistic models to assess the seismic safety of rigid block-like elements and the effectiveness of two safety devices', *Journal of Structural Engineering*, Vol. 145(11), 2019 (doi: 10.1061/(ASCE)ST.1943-541X.0002431).
 - 46) A. Di Egidio, A.M. de Leo, A. Contento, 'The use of a pendulum dynamic mass absorber to protect a trilithic symmetric system from the overturning', *Mathematical Problems in Engineering*, Volume 2019, Article ID 4843738, 14 pages (doi: 10.1155/2019/4843738).
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 - 48) A. Di Egidio, A. Contento, C. Olivieri, A.M. de Leo, 'Protection from overturning of rigid block-like objects with Linear Quadratic Regulator active control', *Structural Control and Health Monitoring*, Vol. 27, e2598, 2020 (doi: 10.1002/stc.2598).
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- 54) S. Pagliaro, A. Aloisio, A. Di Egidio, R. Alaggio, 'Rigid block coupled with a 2 d.o.f. system: numerical and experimental investigation', *Coupled Systems Mechanics*, Vol. 6(9), pp. 539-562, 2020 (doi: 10.12989/csm.2020.9.6.539).
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- 56) A. Di Egidio, D. Zulli, 'Critical and post-critical galloping behavior of base isolated coupled towers', *Int. Journal of Non-Linear Mechanics*, Vol.134, paper id: 103728, 2021 (doi: 10.1016/j.ijnonlinmec.2021.103728).
- 57) A. Contento, A. Di Egidio, S. Pagliaro, 'Dynamic and seismic protection of rigid-block-like structures with Combined Dynamic Mass Absorber', *Engineering Structures*, 2022, Vol.272, paper id: 114999 (doi: 10.1016/j.engstruct.2022.114999).
- 58) S. Pagliaro, A. Di Egidio, 'Archetype dynamically equivalent 3-d.o.f. model to evaluate seismic performances of intermediate discontinuity in frame structures', *Journal of Engineering Mechanics*, Vol.148(3), 2022, (doi: 10.1061/(ASCE)EM.1943-7889.0002083).
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- 61) A. Di Egidio, A.M. de Leo, A. Contento, 'Improvement of the dynamic and seismic response of non-structural rocking bodies through the ability to change their geometrical configuration', *Engineering Structures*, Vol.275, Article Id: 115231, 2023, (doi: 10.1016/j.engstruct.2022.115231).
- 62) A. Di Egidio, C. Olivieri, A. Contento, S. Pagliaro, 'Improving the Dynamic and Seismic Behaviour of Rigid Block-Like Elements Through Active Mass Dampers', *Engineering Structures*, Vol.275, Article Id: 115312, 2023 (doi: 10.1016/j.engstruct.2022.115312).
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- 67) M. Rotilio, G. D'Alberto, A. Di Egidio, A. Contento, P. De Berardinis, 'Proposal of a protocol for the safe removal of post-earthquake provisional shorings', *Buildings*, Vol.13(9), Article Id: 2363, 2023 (doi: 10.3390/buildings13092363).
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- 72) M. Ferretti, A. Di Egidio, 'Effectiveness in protecting rigid-block-like objects through horizontal and vertical seismic isolation', *Nonlinear Dynamics*, 2024 (open access, doi: 10.1007/s11071-024-09998-7).
- 73) A. Di Egidio, A. Contento, 'Enhancing Seismic Performance of 3D Frame Structures Using Inerter-Based Systems', *Frontiers in Built Environment*, 2025 (submitted).
- 74) A. Di Egidio, B. Briseghella, A. Contento, 'Seismic mitigation of tower buildings through skywalk integrated with dual tuned mass damper system', *Engineering Structures*, 2025 (submitted).
- 75) M. Ferretti, L. Amoroso, A. Di Egidio, 'Characterization of the rocking motion of asymmetric rigid blocks', *Engineering Structures*, 2025 (submitted)

C) Proceedings of Conferences

• National

- 1) A. Di Egidio, A. Paolone, A. Luongo, 'Analisi Asintotica di Strutture Autoeccitate in Risonanza Primaria', *XIV Congresso Nazionale AIMETA*, Como, 6-9 Ottobre

1999.

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- 3) A. Di Egidio, A. Paolone, A. Luongo, 'Analisi Asintotica di Strutture Autoeccitate in Risonanza 1:2 e 1:3', *XV Congresso Nazionale AIMETA*, Taormina, 26-29 Settembre 2001.
- 4) F. Di Tomasso, A. Di Egidio, A. Luongo, 'Modellazione e analisi dinamica di cavi percorsi da masse', *XVI Congresso Nazionale AIMETA*, Ferrara, 9-12 Settembre 2003.
- 5) A. Di Egidio, A. Paolone, A. Luongo, 'Scenario Postcritico di Biforcazioni Multiple di Hopf in Risonanza Primaria', *XVI Congresso Nazionale AIMETA*, Ferrara, 9-12 Settembre 2003.
- 6) A. Contento, A. Di Egidio, A. Tatone, 'Short Range Contact Forces in the Dynamics of a Rigid Body', *XVIII Congresso Nazionale AIMETA*, Brescia, 11-14 settembre 2007.
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- 10) A. Contento, A. Di Egidio, D. Zulli, 'Dynamics of 3D non-symmetric rigid bodies', *XX Congresso Nazionale AIMETA*, Bologna 12-15 settembre 2011.
- 11) A. Di Egidio, F. Vestroni, 'Nonlinear warping effects on the flexural-torsional behavior of a thin-walled open cross-section beam', *XX Congresso Nazionale AIMETA*, Bologna 12-15 settembre 2011.
- 12) A. Di Egidio, D. Zulli, A. Contento, 'Dynamics of 3D rectangular based rigid bodies subject to horizontal and vertical base excitations', *GIMC 2012 – XIX Convegno Italiano di Meccanica Computazionale*, Rossano 25-27 Giugno 2012.
- 13) A. de Leo, A. Contento, A. Di Egidio, 'Mechanical behavior of barrel vaults', *XXI Congresso Nazionale AIMETA*, Torino 17-20 settembre 2013.
- 14) A. Di Egidio, G. Simoneschi, C. Olivieri, A.M. de Leo, 'Protection of slender rigid blocks from the overturning by using an active control system', *XXIII Congresso Nazionale AIMETA*, Salerno 4-7 Settembre 2017.
- 15) A.M. de Leo, A. Di Egidio, 'Protection of a trilithic structure from the overturning by using a pendulum mass damper', *XXIII Congresso Nazionale AIMETA*, Salerno 15-19 Settembre 2017.
- 16) S. Pagliaro, A. Aloisio, A. Di Egidio, R. Alaggio, 'Investigation into the benefits of coupling a frame structure with a rocking rigid block', *XXIV Congresso Nazionale*

AIMETA, Roma 16-19 Settembre 2019.

- 17) Rotilio M., Di Egidio A., De Berardinis P., D'Alberto G., Tritto M., Di Giovanni G., Strategie and Best Practices per la Rimozione in Sicurezza delle Opere Provvisorie Post-Sisma Strategies and Best Practices for Safe Removal of Post-Earthquake Temporary Shoring. In Enrico Dassori, Renata Morbiducci (Eds.), Memoria e Innovazione, Memory and Innovation, EdicomEdizioni, Monfalcone (Gorizia), ISBN 978-88-945937-4-7, atti del Convegno Ar.Tec. Colloqui.AT.e 2022 tenutosi a Genova 7-10 settembre 2022, pp. 821-834
 - 18) A. Di Egidio, S. Pagliaro, A. Contento, 'Improvement of the seismic response of frame structures through the coupling with an external structure equipped with inerter', *Convegno ANIDIS XIX & ASSISi XVII*, Torino 11-15 September 2022, Italy.
 - 19) M. Ferretti, A. Di Egidio, 'Effectiveness of Horizontal and Vertical Seismic Isolation in Safeguarding Rigid Blocks', *XXVI Congresso Nazionale AIMETA*, Napoli 2-6 Settembre 2024.
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 - 23) A. Luongo, A. Paolone, A. Di Egidio, 'Multiple Time Scale Analysis for Bifurcation from a Double-Zero Eigenvalue', *Proceedings of DECT'99 - 1999 ASME Design Engineering Technical Conference*, September 12-15, 1999 Las Vegas, Nevada.
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 - 25) A. Luongo, A. Paolone, A. Di Egidio, 'Multiple Hopf Bifurcation Analysis for Finite-Dimensional Systems', *International Symposium on Dynamics and Control*, Hanoi, Vietnam, September 15-20, 2003.
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 - 27) A. Luongo, A. Di Egidio, 'Divergence, Hopf and Double-Zero Bifurcations of a nonlinear Planar Beam', *The Seventh International Conference on Computational Structures Technology* September 7-9, 2004, Lisbon, (Portugal).
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Representing Monolithic Objects of Art', *The Eleventh International Conference on Civil, Structural and Environmental Engineering Computing*, St. Julians, Malta, 18-21 September 2007.

- 30) A. Contento, A. Di Egidio, A. Tatone, 'Simulation of the contact among surfaces in the Dynamics of rigid bodies by using short range force fields', *The Ninth International Conference on Computational Structures Technology*, Athens, Greece, 2-5 September 2008.
- 31) A. Di Egidio, A. Contento, 'Seismic protection of sliding-rocking non-symmetric rigid blocks through base isolation', *The Twelfth International Conference on Civil, Structural and Environmental Engineering Computing*, Funchal, Portugal, 1-4 September 2009.
- 32) A. Di Egidio, A. Contento, 'The role of the base isolation in the reduction of seismic effects on monolithic objects of art', *14th European Conference on Earthquake Engineering*, Ohrid, Republic of Macedonia, August 30 - September 03, 2009.
- 33) A. Contento, A. Di Egidio, A. Tatone, 'Soft And Rigid Impact', *ICCCM09 – First International Conference On Computational Contact Mechanics*, Lecce, Italy, 16-18 September, 2009.
- 34) A. Luongo, A. Di Egidio A. Paolone, 'Standard Form of Modulation Equations for Internally and Externally Resonant Systems', *Eighth Conference on Nonlinear Vibrations, Stability, and Dynamics of Structures*, Virginia, July 23-27, 2000.
- 35) D. Zulli, A. Contento, A. Di Egidio, 'Dynamics of 3D non-symmetric rigid bodies subject to one-sine pulse excitations', *The Thirteenth International Conference on Civil, Structural and Environmental Engineering Computing*, Chania, Crete, Greece, 6-9 September, 2011.
- 36) A. Contento, A. Di Egidio, D. Zulli, 'The role of the spectral characteristics of the base excitation on the overturning of 3d rigid blocks', *The dynamic interaction of soil and structure, 2nd International Workshop DISS_12*, March 29-30, L'Aquila, Italy, 2012.
- 37) A.M. de Leo, A. Contento, A. Di Egidio, 'Static behavior of the 'long or short' barrel vaults', *The Fourteenth International Conference on Civil, Structural and Environmental Engineering Computing*, Cagliari, Italy, 3-6 September 2013.
- 38) A. Contento, D. Zulli, A. Di Egidio, 'Overturning of 3D monolithic objects of art under seismic excitation' *The Fourteenth International Conference on Civil, Structural and Environmental Engineering Computing*, Cagliari, Italy, 3-6 September 2013.
- 39) A.de Leo, A. Contento, D. Zulli, A. Di Egidio, 'Behavior of 3D monolithic objects under seismic excitation', *SE-EEE - International Conference on Earthquake Engineering* – Skopje, Macedonia, 29-31 May 2013.
- 40) A.P. Seyranian, A. Di Egidio, A. Contento, A. Luongo, 'New Solution to the Problem of Nicolai', *International Conference on Vibration Problems (ICOVP-2013)*, Lisbon, Portugal, 9 – 12 September 2013.
- 41) A.P. Seyranian, A. Contento, A. Di Egidio, 'Solution to the Problem of Nicolai', *8th European Nonlinear Dynamics Conference (ENOC 2014)*, August 17-20, 2014, Vienna, Austria.
- 42) D. Zulli, A. Di Egidio, 'Galloping under turbulent wind of 1:1 internally resonant

towers', *Euromech Colloquium 563 - Generalized Continua and their Applications to the Design of Composites and Metamaterials*, March 17-21, 2014, Cisterna di Latina, Latina, Italy.

- 43) A. Contento, A. de Leo, A. Di Egidio, 'Mono-dimensional approximate approach to the characterization of the static behavior of spherical shells', *CST2014 - The Twelfth International Conference on Computational Structures Technology*, Naples, Italy, 2-5 September 2014.
- 44) A. Di Egidio, R. Alaggio, A. Contento, 'Analytical and experimental characterization of the overturning of 3D rigid blocks representing monolithic objects of art', *IZIIS 50 - International Conference on Earthquake Engineering and Seismology*, 12-16 May, 2015.
- 45) R. Alaggio, F. Di Fabio, A. Di Egidio, D. Dominici, G. D'Ovidio, A. Luongo, L. Macerola, V. Massimi, M. Tallini, G. Totani, G. Valente, 'A Methodology for the Reliable 3D DISS Model of Colosseum. Part One: Soil and Foundations', *4th International Workshop DISS_15*, Rome, Italy, 12-13 November, 2015.
- 46) R. Alaggio, F. Di Fabio, A. Di Egidio, D. Dominici, G. D'Ovidio, A. Luongo, L. Macerola, V. Massimi, M. Tallini, G. Totani, G. Valente, 'A Methodology for the Reliable 3D DISS Model of Colosseum. Part Two: Elevation and Tests', *4th International Workshop DISS_15*, Rome, Italy, 12-13 November 2015.
- 47) C. Fabrizio, A.M. de Leo, A. Di Egidio, 'Intermediate disconnection of structures to improve the seismic response', *4th International Workshop DISS_15*, Rome, Italy, 12-13 November 2015.
- 48) C. Fabrizio, A.M. de Leo, A. Di Egidio, 'Structural disconnection as a general technique to improve the dynamic and seismic response of structures: a basic model', *EURODYN 2017 – X International Conference on Structural Dynamics*, Rome, Italy, 10-13 September 2017.
- 49) A. Contento, P. Gardoni, A. Di Egidio, A.M. de Leo, 'Probabilistic models to assess the seismic safety of rigid block-like elements and the effectiveness of two safety devices', *EURODYN 2017 – X International Conference on Structural Dynamics*, Rome, Italy, 10-13 September 2017.
- 50) A. Di Egidio, G. Simoneschi, A.M. de Leo, 'Active Control Methods to Improve the Seismic Response of Slender Rigid Block-Like Structures', *16th European Conference on Earthquake Engineering (16ECE)*, Thessaloniki, Greece, 18-21 June, 2018.
- 51) P. Gardoni, A. Contento, A.M. de Leo, A. Di Egidio, 'Seismic demand model for coupled tuned mass damper and rigid block-like element system on elastic soil', *16th European Conference on Earthquake Engineering (16ECE)*, Thessaloniki, Greece, 18-21 June, 2018.
- 52) E. Cappelli, A. Di Egidio, F. Vestroni, 'Rocking of a masonry wall: analysis and experiment', *16th European Conference on Earthquake Engineering (16ECE)*, Thessaloniki, Greece, 18-21 June, 2018.
- 53) A. Di Egidio, A. Contento, C. Fabrizio, A.M. de Leo, 'Visco-elastic coupling between a linear two-dof system and a rocking rigid block to improve the dynamic response', *XIIIth International Conference on Recent Advances in Structural Dynamics*, Lyon, France, April 15-17, 2019.

- 54) A. Di Egidio, S. Pagliaro, C. Fabrizio, 'Improvement of the seismic performance of a frame structure through a visco-elastic connection with a rocking block', *ICONHIC 2019 - 2nd International Conference on Natural Hazards & Infrastructure*, Chania, Greece, June 23-26, 2019.
- 55) S. Pagliaro, A. Di Egidio, 'Connection of existing frame structures with an external rocking wall to improve their seismic response', *6th International Workshop DISS_19*, L'Aquila, Italy, 28-29 November 2019.
- 56) A. Di Egidio, 'Comparison between two active control methods to improve the seismic performance of rigid body-like structures', *EACS 2020, 7th European Conference on Structural Control*, Warsaw, Poland, July 12-15, 2020 (abstract accepted, postponed due COVID-19).
- 57) S. Pagliaro, A. Di Egidio, C. Fabrizio, 'Seismic and dynamic behaviour of frame structures coupled to rocking blocks with inerters', *EACS 2020 - 7th European Conference on Structural Control*, Warsaw, Poland, July 12-15, 2020 (abstract accepted, postponed due COVID-19).
- 58) S. Pagliaro, A. Di Egidio, 'Dynamic and seismic performance of a two d.o.f. system coupled with a rigid block with inerters', *NODYCON 2021 – Second Nonlinear Dynamics Conference*, February 16-19, 2021, Rome, Italy.
- 59) A. Di Egidio, S. Pagliaro, A. Contento, 'Base versus top active control to improve dynamic and seismic performances of rigid blocks', *COMPDYN 2021 - 8th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, 27-30 June 2021, Streamed from Athens.
- 60) S. Pagliaro, A. Di Egidio, A. Contento, 'Improvement of dynamic and seismic behaviour of cabinets through controlled deformation', *COMPDYN 2021 - 8th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, 27-30 June 2021, Streamed from Athens.
- 61) A. Contento, A. Di Egidio, B. Briseghella, 'Analysis of the Effectiveness of Geotechnical Seismic Isolation on Post-Tensioned Rocking Piers', *WCEE2024 - 18th World Conference on Earthquake Engineering (WCEE2024)*, Milano, Italy, 30th June-05th July, 2024.
- 62) A. Di Egidio, A. Contento, 'Coupling of Tuned Mass Damper and Vibro-Impacting Mass for the seismic protection of frame structures', *WCEE2024 - 18th World Conference on Earthquake Engineering (WCEE2024)*, Milano, Italy, 30th June-05th July, 2024 (abstract accepted but not presented).
- 63) A. Contento, A. Aloisio, A. Di Egidio, Hing-Ho Tsang, P. Gardoni, B. Briseghella, 'Evaluation of the effectiveness of Geotechnical Seismic Isolation for rocking piers', *IABMAS 2024*, 24-28th June, 2024, Copenhagen.

D) Communications at Conferences

• National

- 1) A. Luongo, A. Paolone, A. Di Egidio, 'Equazioni di Modulazione ed Analisi delle Classi di Moto di Sistemi Multirisonanti', *Convegno FENDIS*, Roma, Luglio 2001.
- 2) A. Di Egidio, A. Paolone, A. Luongo, 'Il Metodo delle Scale Multiple per l'Analisi della Biforcazione', *Convegno FENDIS*, Roma, Luglio 2001.

- 3) D. Galeota, S. Avola, A. Contento, A. Di Egidio, F. Di Fabio, L. Fanale, A. Gregori, 'Sistema di monitoraggio e caratterizzazione dinamica di alcuni edifici storici dell'Università dell'Aquila', workshop su Metodologie e tecniche per la messa in sicurezza di edifici storici danneggiati dal terremoto, sala convegni ANCE, 14 maggio 2010, L'Aquila, Italy.
 - 4) A.M. de Leo, A. Di Egidio, 'On the mass damper effects on the rocking motion of non symmetric rigid blocks', *XXII Congresso Nazionale AIMETA*, Genova 14-17 settembre 2015.
 - 5) A. Di Egidio, A.M. de Leo, 'Semi-analytic approach to the characterization of the linear static behaviour of shells in the shape of pavilion vaults', *XXII Congresso Nazionale AIMETA*, Genova 14-17 settembre 2015.
 - 6) C. Fabrizio, A. Di Egidio, 'Base isolation versus top isolation', *XXII Congresso Nazionale AIMETA*, Genova 14-17 settembre 2015.
 - 7) A.M. de Leo, A. Di Egidio, A. Contento, 'Parametric analysis of a generic trilith system subject to a base impulsive one-sine excitation', *GIMC 2016 - Convegno Italiano di Meccanica Computazionale*, Lucca 27-29 June, 2016.
 - 8) G. Simoneschi, A.M. de Leo, A. Di Egidio, 'Effectiveness of a TMD system to improve the seismic behavior of rigid block-like structures', *GIMC 2016 - Convegno Italiano di Meccanica Computazionale*, Lucca 27-29 June, 2016.
- *International*
- 9) A. Luongo, F. Vestroni, A. Di Egidio, 'Multiple Internal Resonance Phenomena in the Motion of an Orbiting String Satellite System', *EUROMECH 325 - Bifurcation and Chaos in Solid and Structural Dynamics*, L'Aquila 1994.
 - 10) A. Luongo, F. Vestroni, A. Di Egidio, 'Nonlinear Model for Open Cross Section Beams Oscillating in 3D', *ESMEC*, Stockholm, 18-22 August, 1997.
 - 11) A. Luongo, A. Paolone, A. Di Egidio, 'Multiple Time Scale Analysis for Bifurcation from a Double Zero Eigenvalues' - *EUROMECH - 3rd European Nonlinear Oscillations Conference* -, Copenhagen (Lyngby), August 8-12, 1999.
 - 12) A. Luongo, A. Paolone, A. Di Egidio, 'Multiple Time Scale Analysis for Resonant Double Hopf Bifurcations', - *EUROMECH - 4rd European Nonlinear Oscillations Conference*, Metz, 2000.
 - 13) A. Luongo, A. Di Egidio, A. Paolone, 'Qualitative analysis of classes of motion of multiresonant nonlinear system', *Euromech 425*, 20 - 24 August 2001, Aberdeen, Scotland, UK.
 - 14) A. Luongo, A. Paolone, A. Di Egidio, 'Eigenpair Sensitivity and Bifurcation Analysis for Multiple Defective Eigenvalues', *Annual Conference of the "Gesellschaft für Angewandte Mathematik und Mechanik"*, *GAMM 2003*, Padova, Italy, 24 - 28 March, 2003.
 - 15) F. Vestroni, A. Di Egidio, A. Luongo, 'Nonlinear Warping and Torsional Elongation Effects on the Response of an Open Cross Section Beam', *6th Solid Mechanics Conference - ESMC 2006*, Budapest, Ungary, 28 August – 1 September, 2006.
 - 16) A. Tatone, A. Di Egidio, A. Contento, 'Contact mechanics in an affine nutshell, mathematical modeling, mechanics & materials', *Mechanics & Materials*, Udine, January 11-14, 2008.

- 17) A. Tatone, A. Di Egidio, A. Contento, 'Bouncing, rolling and sticking of stiff and soft bodies', *INTAS Project "Some nonclassical problems for thin structures"*, Final meeting, Rome, January 22-23, 2009.
- 18) A. Contento, P. Gardoni, A. Di Egidio, A.M. de Leo, 'Rigid blocks coupled with a pendulum mass damper on deformable ground under impulsive excitation', *EMI 2018 – Engineering Mechanics Institute Conference 2018*, Boston, USA, May 29-June 1, 2018.
- 19) M. Sciomenta, A. Di Egidio, M. Fragiacomio, 'An accurate analytical model of a 3-layered clt panel with two glue lines: comparison with experimental and numerical results', *EMI 2020 – Engineering Mechanics Institute Conference 2020*, New York, USA, May 26-29, 2020 (abstract accepted, postponed due COVID-19).
- 20) A. Contento, A. Di Egidio, "On the visco-elastic maxwell coupling of two rigid blocks subject to seismic excitation", *Emi 2023 International Conference*, Palermo, Italy, August 27 - 30, 2023.
- 21) A. Di Egidio, M. Ferretti, L. Mancini, "Protection of underground utility tunnel contents from transversal earthquake effects", *NODYCON 2025*, Hoboken, NJ USA, June 22 - 25, 2025 (accepted for presentation).
- 22) M. Ferretti, L. Mancini, A. Di Egidio, "Longitudinal Seismic Vibration Protection of Pipelines in Underground Utility Tunnels", *NODYCON 2025*, Hoboken, NJ USA, June 22 - 25, 2025 (accepted for presentation).
- 23) L. Amoroso, M. Ferretti, A. Di Egidio, "Horizontal and vertical base isolation for the seismic protection of non-symmetric rigid blocks", *ESMC 2025*, Lyon, France, July 7-11, 2025 (abstract submitted).
- 24) A. Di Egidio, S. Di Nino, F. Pancella, L. Mancini, M. Ferretti, "Transverse seismic isolation of pipelines in underground utility tunnels for enhanced earthquake protection", *ESMC 2025*, Lyon, France, July 7-11, 2025 (abstract submitted).
- 25) M. Ferretti, L. Mancini, A. Di Egidio, "Longitudinal seismic isolation strategies for pipelines in underground utility tunnels", *ESMC 2025*, Lyon, France, July 7-11, 2025 (abstract submitted).
- 26) M. Ferretti, L. Amoroso, A. Di Egidio, "Hybrid passive seismic protection strategies of rigid blocks", *ESMC 2025*, Lyon, France, July 7-11, 2025 (abstract submitted).

E) Reports

- 1) A. Di Egidio, F. Vestroni, 'L'oscillatore semplice isolato', *DISAT – Department of Civil, Hydraulic and Geotechnic Engineering*, May 1992, report n. 92/2 (in Italian).
- 2) A. Contento, A. Di Egidio, 'The use of a constrained oscillating base for the seismic protection of monolithic objects of art', *CERFIS – Centro di Formazione e Ricerca in Ingegneria Sismica (Research Center in Seismic Engineering)*, October 2011, report n. 5/2011.
- 3) A. Contento, D. Zulli, A. Di Egidio, 'Overturning of a 3D rigid block subject to pulse-type and seismic base excitations', *CERFIS – Centro di Formazione e Ricerca in Ingegneria Sismica (Research Center in Seismic Engineering)*, January 2013, report n. 1/2013.

F) Workshops, Seminars, Meetings

- A. Di Egidio, 'Nonlinear Beam Model for Dynamic Interactions Analysis', Seminar in Nonlinear Dynamics, Sapienza University of Rome, Italy, October 1996.
- A. Di Egidio, 'Nonlinear Model for Open Cross Section Beams', Presented by Prof. F. Vestroni, Blacksburg, 27-30 June, 1998 (with Prof. A. Luongo).
- A. Di Egidio, 'Un Modello Nonlineare di Trave Aperta in Parete Sottile', seminar for the PHD school in Ingegneria Civile e del Territorio, University of L'Aquila, Italy, 25 September 2006 (in Italian).
- A. Di Egidio, A. Paolone, A. Luongo, 'Postcritical Behaviour of a Damped Beam Under tangential Load', workshop on "Research Activity at DISAT" for the event "A series of seminars organized in occasion of the visit of Professor Alexander Seyranian" on *Structural Dynamics, Stability and Control*, University of L'Aquila, Italy, March 2007.
- A. Di Egidio, 'Applications of the Multiple Scale Methods to sample mechanical systems', lesson for the *Marie Curie* International Project, "Stability, Identification and Control in Nonlinear structural dynamics – SICON", (www.sicon.ing.univaq.it), L'Aquila, Italy, 2008.
- A. Di Egidio, 'Modello di blocco rigido non simmetrico 2D e 3D', *Workshop DISAT: Idee e progetti di ricerca per il 2011*, University of L'Aquila, Italy, December 2010 (with R. Alaggio, A. Contento, D. Zulli, in Italian).
- A. Di Egidio, 'Contatto, contrattilità, motilità', *Workshop DISAT: Idee e progetti di ricerca per il 2011*, University of L'Aquila, Italy, December 2010 (with A. Contento, A. Tatone, in Italian).
- A. Di Egidio, 'Rapporto delle attività di ricerca svolte nell'ambito del progetto PRIN 2009', *Riunione PRIN 2009*, 25 Novembre 2011, Roma.
- A. Di Egidio, 'Modelli strutturali: occasioni di studio e di ricerca', Seminar for the students of Civil Engineering and for PHD Students, University of L'Aquila, Italy, June 2012 (with V. Pavone, A. de Leo, A. Contento, in Italian).
- A. Di Egidio, 'The (first) attempt to explain the paradox of Nicolai', Workshop with Professor Alexander Seyranian, University of L'Aquila, Italy, June 2012.
- A.H. Seyranian, 'The problem of Nicolai', seminar of the Institute of Machinery of Russian Academy of Sciences, Sankt-Petersburg, December 2012, (with A. Di Egidio, A. Contento and A. Luongo).
- A. Di Egidio, 'Modelli strutturali: occasioni di studio e di ricerca - II Edizione', Seminar for the students of Civil Engineering and for PHD Students, University of L'Aquila, Italy, June 2013 (with S. Chirivi, F. Petrella, A. de Leo, in Italian).
- A. Di Egidio, 'Modelli strutturali: occasioni di studio e di ricerca - III Edizione', Seminar for the students of Civil Engineering and for PHD Students, University of L'Aquila, Italy, June 2014 (with G. Simoneschi, E. Perrella, A. de Leo, in Italian).
- A. Di Egidio, 'Modelli strutturali: occasioni di studio e di ricerca - IV Edizione', Seminar for the students of Civil Engineering and for PHD Students, University of L'Aquila, Italy, June 2015 (with L. Gasbarro, G. Simoneschi, C. Fabrizio, A.M. de Leo,

in Italian).

- A. Di Egidio, 'Modelli strutturali: occasioni di studio e di ricerca - V Edizione', Seminar for the students of Civil Engineering and for PHD Students, University of L'Aquila, Italy, June 2016 (with G. Simoneschi, A. Geniola, C. Fabrizio, in Italian).
- A. Di Egidio, 'Blocchi rigidi da proteggere e blocchi rigidi per proteggere: modelli, analisi e sperimentazione', Workshop PRIN 2015 - Forze Modelli Simulazioni Predizione e Osservazione, 14-15 Maggio 2019, Roma (in Italian).
- A. Di Egidio, convegno 'Ridurre le vulnerabilità: dall'edificio al territorio', organizzazione della sezione 'Metodi innovativi per la riduzione della vulnerabilità strutturale', L'Aquila, 6 Dicembre 2019 (in Italian).
- A. Di Egidio, 'Miglioramento dinamico e simico di strutture intelaiate accoppiate a rocking wall esterne: modelli, uso di inerter, sperimentazione', *Discorsi di Dinamica delle Strutture – In memoria del Prof. Francesco Benedettini*, Università dell'Aquila, Piazzale Ernesto Pontieri, Monteluco di Roio (AQ), 13 Febbraio 2020.
- A. Di Egidio, 'Uno strumento speditivo per la valutazione del rischio legato alla rimozione delle opere provvisorie', Gruppo di lavoro per definire un protocollo per la rimozione delle opere provvisorie, ANCE - L'Aquila, 29 Ottobre 2021 (with Prof. P. De Berardinis, Dr. M. Rotilio, in Italian).
- A. Di Egidio, 'Miglioramento dinamico di strutture intelaiate attraverso l'accoppiamento visco-elastico con una struttura esterna dotata di inerter', *Giornata della ricerca DICEAA*, 25 Maggio 2022 (with S. Pagliaro, A. Contento, in Italian).
- S. Pagliaro, 'Miglioramento dinamico di strutture intelaiate attraverso l'introduzione di una discontinuità intermedia', *Giornata della ricerca DICEAA*, 25 Maggio 2022 (with A. Di Egidio, A. Contento).
- A. Di Egidio, 'Modelli analitici, computazionali e sperimentazione di tecniche innovative di protezione dinamica e sismica per strutture tipo blocco rigido e strutture intelaiate', *Giornata della ricerca DICEAA*, 12 Aprile 2024 (with A. Contento).