

# Curriculum Vitae

<b>Personal Details</b>	<p><b>Name:</b> Paolo</p> <p><b>Surname:</b> Castaldo</p> <p><b>email:</b></p> <p><a href="mailto:paolo.castaldo@polito.it">paolo.castaldo@polito.it</a></p> <p><a href="mailto:pcastaldo@unisa.it">pcastaldo@unisa.it</a></p> <p><a href="mailto:pcastaldo84@libero.it">pcastaldo84@libero.it</a></p> <p><a href="mailto:paolocastaldo84@gmail.com">paolocastaldo84@gmail.com</a></p>
<b>Education and Qualifications</b>	<ul style="list-style-type: none"><li>• <b>Researcher - Assistant Professor at Politecnico di Torino</b> (2017)</li><li>• <b>Assistant Research and Teaching at the University of Salerno</b> (2013-2016)</li><li>• <b>Ph.D. in Seismic and Structural Engineering and Retrofit of Existing Buildings at the University of Salerno</b> (2012), obtained 05/06/2012 at the University of Salerno. Dissertation entitled: <i>“The use of viscous and viscoelastic devices in the integrated optimal seismic design of structural systems”</i></li><li>• <b>Ph.D. student at the University of Salerno</b> (2008-2011)</li><li>• <b>Degree in Civil and Environmental Engineering</b>, obtained 25/09/2008 with full marks with distinction, at the University of Salerno. Dissertation entitled: <i>“The effects on existing buildings due to deep excavations in urban area”</i></li><li>• <b>Scientific High School Diploma</b> obtained from "G. Piranesi" Institute Capaccio-Paestum, July 2003 with 100/100 marks</li><li>• <b>Registered Engineer</b> qualified on second State Exam session 2008</li><li>• <b>Registered in Association of Salerno Engineers</b> number 5732</li></ul>
<b>Exams passed for Degree course</b>	<ul style="list-style-type: none"><li>• Mathematics I (30/30 with distinction), Technical drawing (30/30), Chemistry I (28/30), Physics I (30/30);</li><li>• Mathematics II (30/30 with distinction), Chemistry II (30/30 with distinction), Geology (27/30), Informatics (30/30), Elements of Business Economics (30/30), Analysis of Urban and Territorial Systems (26/30);</li><li>• Rational Mechanics/ Mathematics III (30/30), Topography (29/30), Economic estimates (30/30 with distinction), Principles of Chemical Engineering (30/30), Pollution (30/30);</li></ul>

	<ul style="list-style-type: none"> <li>• Construction Science I (30/30 with distinction), Hydraulics I (30/30), Urban Technique I (30/30 with distinction);</li> <li>• Hydraulic Constructions I (30/30 with distinction), Planning Transport Systems I (30/30 with distinction), Soil Mechanics (28/30);</li> <li>• Structural Engineering I (30/30 with distinction), Roads, Railways and Airports I (28/30), Wastewater Treatment Plant Chronicler I (30/30 with distinction), Site Organization (30/30 with distinction);</li> <li>• Construction Science II-III (30/30), Hydraulics II (28/30), Mathematics IV (28/30), Geology and Geomorphology (30/30);</li> <li>• Structural Engineering II (30/30), Mathematics V (27/30), Hydrology (30/30), Geotechnique (30/30);</li> <li>• Hydraulic Constructions II (30/30 with distinction), Planning Transport Systems II (30/30 with distinction), Urban Technique II (30/30), Landslides (30/30), Economic Evaluation of Projects (28/30);</li> <li>• Seismic Engineering (30/30 with distinction), Slope Stability (30/30), Environmental Impact Assessment (28/30).</li> </ul>
<p><b>Exams and courses followed during Ph.D. course</b></p>	<ul style="list-style-type: none"> <li>• “Elementary Concepts in Probability for Earthquake Engineering” held by Prof. Fatemeh Jalayer;</li> <li>• “Elements of Seismic Reliability of Structures” held by Prof. Junio Iervolino;</li> <li>• “Theory and design of bridges” course held by Prof. Vincenzo Piluso;</li> <li>• “Reinforced concrete structures in seismic zone” course held by Prof. Edoardo Cosenza at the University of Naples “Federico II”;</li> <li>• “Design of structures” course held by Prof. Vincenzo Piluso;</li> <li>• “Special structures” course held by Prof. Enzo Martinelli;</li> <li>• “Structures of masonry” held by Prof. Luis Decanini at the University of Rome “La Sapienza”;</li> <li>• “Mechanics of Masonry Structures” held by Prof. Maurizio Angelillo at the CISM in Udine;</li> <li>• “Elements of seismic reliability theory” held by Dott. Ing. Massimiliano De Iuliis;</li> <li>• “Solid Mechanics” held by Prof. Maurizio Angelillo;</li> <li>• The seminars held in the Civil Engineering Department of the University of Salerno;</li> <li>• English course - PET level at the University of Salerno;</li> <li>• English course - FCE level at the University of Salerno.</li> </ul>

<b>IT Knowledge</b>	<p><b>Software for numerical processing:</b> MATLAB(SIMULINK), MATHEMATICA,</p> <p><b>Programming languages:</b> DevC++, GW Basic, Pascal, Fortran</p> <p><b>Operating systems:</b> MS-DOS, Windows95, Windows98, Windows 2000, Windows NT, Windows XP, Vista, Windows 7;</p> <p><b>Software for word-processing and spreadsheets:</b> Word, Excel, Access, PowerPoint, Outlook; <b>European Computer Driving Licence (ECDL)</b> released by “Associazione Italiana per l’Informatica ed il Calcolo Automatico (AICA)” in 2002.</p> <p><b>Software for structural and geotechnical computation:</b> Sap2000, Abaqus, Plaxis, Infostru, Strauss, Iperspace, Geostru, CdSwin, GeoSlope</p> <p><b>Software for graphic representation:</b> CAD, AutoCAD, AutoCAD LT</p> <p><b>Creative Graphic Software:</b> Corel Draw, Corel PhotoPaint, Photoshop</p>
<b>Academic Experiences</b>	<p><i>November 2008:</i> First place in admission exam for research doctorate course in Structural Engineering - X cycle. Admitted on course.</p> <p><i>November 2009:</i> Passed first year exam for research doctorate course.</p> <p><i>November 2010:</i> Passed second year exam for research doctorate course.</p> <p><i>November 2011:</i> Passed third and last year exam for research doctorate course.</p> <p><i>June 2012:</i> Ph.D. in Earthquake and Structural Engineering and Retrofit of Existing Buildings at the University of Salerno.</p> <p><i>January 2013:</i> Assistant Research and Teaching at the University of Salerno.</p> <p><i>January 2014:</i> Assistant Research and Teaching at the University of Salerno.</p> <p><i>January 2015:</i> Assistant Research and Teaching at the University of Salerno.</p> <p><i>February 2015:</i> Assistant Research and Teaching Representative of the Department of Civil Engineering at the University of Salerno.</p>

	<p><i>April 2016:</i></p> <p>Assistant Research and Teaching at the University of Salerno. Assistant Research and Teaching Representative of the Department of Civil Engineering at the University of Salerno.</p> <p><i>February 2017:</i></p> <p>Assistant Professor at Politecnico di Torino.</p>
<p><b>Academic Studies and Research fields</b></p>	<ul style="list-style-type: none"> <li>• Seismic and structural reliability;</li> <li>• Seismic and Structural control;</li> <li>• Base isolation system;</li> <li>• Base isolation system through FPS;</li> <li>• Energy dissipation;</li> <li>• Integrated design of structural systems with viscous and viscoelastic devices;</li> <li>• Reliability of reinforced structures affected by material deterioration;</li> <li>• Characterization of L'Aquila earthquake;</li> <li>• Near fault events: directivity of seismic actions;</li> <li>• Seismic damage indices;</li> <li>• Deep excavations in urban area and their effects on masonry and reinforced concrete structures related to both static and dynamic conditions;</li> <li>• Ultimate behaviour of aluminum alloy elements.</li> </ul>
<p><b>Professional Experiences</b></p>	<p>Professional partnership with “Studio Ingegneria Civile Architettura - Prof. Bruno Palazzo”:</p> <ul style="list-style-type: none"> <li>• Structural analysis of the effects on existing buildings due to underground stations in Naples, - Linea 6 - S. Paquale Station - Metropolitan line, according to DM 2008 and Eurocodes;</li> <li>• Seismic and Structural analysis of a structure in Naples, Riviera di Chiaia street n. 276, in respect to DM 2008 and Eurocodes;</li> <li>• Structural design of underground parkings in Naples, Tino di Camaino street and Piazza degli Artisti, in respect to DM 2008 and Eurocodes.</li> </ul> <p>-----</p> <ul style="list-style-type: none"> <li>• Emergency maintenance of a masonry building – client Mrs Ruocco Maria Rosaria – in corso Vittorio Emanuele 84010 Minori (SA);</li> <li>• Professional partnership with “Studio Tecnico De Iuliis” for an architectural restoration of a building in via San Pietro 22 84010 Minori (SA);</li> <li>• Professional partnership with “Studio Tecnico De Iuliis” for a structural and architectural restoration of a building in via Casa Rossa Ravello (SA).</li> <li>• Tables-thousandth for a building in Naples</li> </ul>

<b>Foreign Languages</b>	<ul style="list-style-type: none"> <li>• Excellent knowledge of spoken and written English and Spanish</li> </ul>
<b>Participation on Research projects</b>	<ul style="list-style-type: none"> <li>• FARB (ex60%) Fund projects from 2008 to 2017 – Department of Civil Engineering of the University of Salerno</li> <li>• ReLUIS Fund projects from 2010 to 2013</li> <li>• ReLUIS Fund projects 2014-2016</li> <li>• STRIT (Strumenti e Tecnologie per la gestione del Rischio delle Infrastrutture) Fund projects from 2013 to 2015</li> </ul>
<b>Scientific responsibility of Research projects</b>	<ul style="list-style-type: none"> <li>• ReLUIS Fund projects 2016</li> <li>• ReLUIS Fund projects 2017</li> <li>• Research grant at Politecnico di Torino (2017-2020)</li> </ul>
<b>Participation (as speaker or chairman) in national and international congresses and conferences</b>	<ul style="list-style-type: none"> <li>• Final Conference ReLuis Project Line 7 “Technology for the isolation and control of structures and infrastructures” – Naples, December 2008</li> <li>• XIII ANIDIS Congress, “<i>The Seismic Engineering in Italy</i>”, Bologna 28 June – 2 July 2009</li> <li>• XIV ANIDIS Congress, “<i>The Seismic Engineering in Italy</i>”, Bari 18-22 September 2011</li> <li>• XV ANIDIS Congress, “<i>The Seismic Engineering in Italy</i>”, Padova 30 June - 04 July 2013</li> <li>• XVI ANIDIS Congress, “<i>The Seismic Engineering in Italy</i>”, L’Aquila 13-17 September 2015</li> <li>• Final Conference <i>DPC/ReLUIS 2010-2013</i>, Napoli, 08 - 09 October 2013.</li> <li>• Conference <i>DPC/ReLUIS 2014-2017</i>, Potenza, 25- 26 June 2014.</li> <li>• Conference <i>STRIT Project 2013-2015</i>, Napoli, 30 July 2014.</li> <li>• International Conference Eurosteel 2014, 10-12 September, Napoli, Italy.</li> <li>• International Conference EESMS2014, 18-19 September, Napoli, Italy.</li> <li>• International Conference ACE2015, 12-13 June, Salerno, Italy.</li> </ul>

	<ul style="list-style-type: none"> <li>• National Conference CTA2015, 1-3 ottobre, Salerno, Italy.</li> <li>• International Conference ECCOMAS2016, 5-10 June, Crete, Greece. (Chairman)</li> <li>• International Conference INALCO2016, September 21-23 2016, Naples, Italy.</li> <li>• International Conference “The New Boundaries of Structural Concrete 2016”, September 29-October 1 2016 - Villa Orlandi, Capri Island – Italy.</li> <li>• International Conference “Multiscale Innovative Materials and Structures - MIMS16”, October 28-30 2016 - Cetara (SA) – Italy. (Chairman)</li> <li>• National Conference ITALIAN CONCRETE DAYS Giornate AICAP 2016 - Congresso CTE “EVOLUZIONE e SOSTENIBILITA’ delle STRUTTURE IN CALCESTRUZZO”, 27-28 Ottobre 2016 – Roma, Italy.</li> </ul>
<b>Membership of professional or scientific bodies</b>	<ul style="list-style-type: none"> <li>• Engineers Professional Association of Salerno (Italy) since 2009</li> <li>• Italian Steel Association (CTA) since 2015</li> <li>• American Concrete Institute (ACI) since 2016</li> <li>• Italian Concrete Association (AICAP) since 2016</li> <li>• Italian Earthquake Engineering Association (ANIDIS) since 2011</li> </ul>
<b>Reviewing experience</b>	<p>Reviewer for the following Scientific International Journals and Publishing Houses:</p> <ul style="list-style-type: none"> <li>- Earthquake Engineering and Structural Dynamics;</li> <li>- Engineering Structures;</li> <li>- Journal of Structural Engineering;</li> <li>- Structure and Infrastructure Engineering;</li> <li>- Earthquake Engineering and Engineering Vibration;</li> <li>- Journal of Vibration and Control;</li> <li>- Journal of Testing and Evaluation;</li> <li>- Advances in Structural Engineering;</li> <li>- KSCE Journal of Civil Engineering;</li> <li>- Composites Part B: Engineering;</li> <li>- Frontiers in Built Environment;</li> <li>- Ingegneria Sismica – International Journal of Earthquake Engineering;</li> <li>- Scientific Research and Essays;</li> <li>- Science PG;</li> <li>- Géotechnique Letters;</li> <li>- Elsevier.</li> </ul>

<p><b>Book</b></p>	<ol style="list-style-type: none"> <li><b>Castaldo P.</b>, “Integrated Seismic Design of Structure and Control Systems”, <i>Springer International Publishing - Series ID 11693; Series Title: Springer Tracts in Mechanical Engineering; Book ID: 319777_1_En</i>, (Copyright Holder Name Springer International Publishing Switzerland - Copyright Year 2014) Book ISBN: 978-3-319-02614-5, ISSN 2195-9862 ISSN 2195-9870 (electronic), ISBN 978-3-319-02614-5 ISBN 978-3-319-02615-2 (eBook), DOI 10.1007/978-3-319-02615-2. Springer Cham Heidelberg New York Dordrecht London.</li> </ol>
<p><b>Papers in Journal</b></p>	<ol style="list-style-type: none"> <li><b>Castaldo P.</b>, Nastri E., Piluso V. “Ultimate behaviour of RHS temper T6 aluminium alloy beams subjected to non-uniform bending: Parametric analysis”, <i>Thin-Walled Structures</i>, 2017, 115:129-141; <a href="http://dx.doi.org/10.1016/j.tws.2017.02.006">http://dx.doi.org/10.1016/j.tws.2017.02.006</a>.</li> <li><b>Castaldo P.</b>, Palazzo B., Mariniello A., "Effects of the axial force eccentricity on the time-variant structural reliability of aging r.c. cross-sections subjected to chloride-induced corrosion", <i>Engineering Structures</i>, 2017, DOI: 10.1016/j.engstruct.2016.10.053.</li> <li><b>Castaldo P.</b>, Palazzo B., Ferrentino T. “Seismic reliability-based ductility demand evaluation for inelastic base-isolated structures with friction pendulum devices”, <i>Earthquake Engineering and Structural Dynamics</i>, 2016, DOI: 10.1002/eqe.2854.</li> <li><b>Castaldo P.</b>, Ripani M., "Optimal design of friction pendulum system properties for isolated structures considering different soil conditions", <i>Soil Dynamics and Earthquake Engineering</i>, 2016, 90, 74–87, DOI: 10.1016/j.soildyn.2016.08.025.</li> <li><b>Castaldo P.</b>, Palazzo B., Ferrentino T., Petrone G. “Influence of the strength reduction factor on the seismic reliability of structures with FPS considering intermediate PGA/PGV ratios”, <i>Composites Part B: Engineering</i>, 2016, <a href="http://dx.doi.org/10.1016/j.compositesb.2016.09.072">http://dx.doi.org/10.1016/j.compositesb.2016.09.072</a>.</li> <li><b>Castaldo P.</b>, Nastri E., Piluso V. “FEM simulations and rotation capacity evaluation for RHS temper T4 aluminium alloy beams”, <i>Composites Part B: Engineering</i>, 2016, <a href="http://dx.doi.org/10.1016/j.compositesb.2016.10.026">http://dx.doi.org/10.1016/j.compositesb.2016.10.026</a>.</li> <li><b>Castaldo P.</b>, Amendola G., Palazzo B., "Seismic fragility and reliability of systems isolated by friction pendulum device: Seismic reliability-based Design (SRBD)", <i>Earthquake Engineering and Structural Dynamics</i>, 2017; 46(3): 425-446, DOI: 10.1002/eqe.2798.</li> <li><b>Castaldo P.</b>, Palazzo B., Della Vecchia P. " Life cycle-cost and seismic reliability analysis of 3D systems equipped with FPS for different isolation degrees", <i>Engineering Structures</i>, 2016, 125, 349-363, doi:10.1016/j.engstruct.2016.06.056.</li> <li><b>Castaldo P.</b>, Amendola G., Palazzo, B. (2016), “Effetes of class B site on the seismic reliability of base-isolated steel systems”. <i>Ingegneria Sismica - International Journal of Earthquake Engineering</i>, Anno XXXIII – Speciale CTA 2015 – Num. 3:29-41.</li> </ol>

11. **Castaldo, P.**, Palazzo, B., Perri, F. (2016), “FEM simulations of a new hysteretic damper: the dissipative column”. *Ingegneria Sismica - International Journal of Earthquake Engineering*, Anno XXXIII – Speciale CTA 2015 – Num. 1-2:34-45.
  
12. Palazzo B., **Castaldo P.**, Mariniello A.(2016). “Time-variant reliability of r.c. structures”. (In: 2° *International Symposium on Advances in Civil and Infrastructure Engineering*) *Applied Mechanics and Materials*, ISSN: 1662-7482, 847; 407-414, doi:10.4028/www.scientific.net/AMM.847.407
  
13. **Castaldo P.**, Tubaldi E. "Influence of FPS-bearing properties on the seismic performance of base-isolated structures", *Earthquake Engineering and Structural Dynamics*, 2015, 44:2817–2836, DOI: 10.1002/eqe.2610.
  
14. **Castaldo P.**, Palazzo B., Della Vecchia P. "Seismic reliability of base-isolated structures with friction pendulum bearings", *Engineering Structures*, 2015, 95, 80-93, doi:10.1016/j.engstruct.2015.03.053.
  
15. Palazzo B., **Castaldo P.**, Marino I. "The Dissipative Column: A New Hysteretic Damper ", *Buildings* 2015, 5(1), 163-178; doi:10.3390/buildings5010163.
  
16. **Castaldo P.**, De Iuliis M. "Effects of deep excavation on seismic vulnerability of existing reinforced concrete framed structures", *Soil Dynamics and Earthquake Engineering*. 2014, 64, 102-112, DOI: 10.1016/j.soildyn.2014.05.005.
  
17. **Castaldo P.**, De Iuliis M. "Optimal integrated seismic design of structural and viscoelastic bracing-damper systems", *Earthquake Engineering and Structural Dynamics* 2014, 43(12): 1809–1827, DOI: 10.1002/eqe.2425.
  
18. **Castaldo, P.**, Calvello, M., Palazzo, B. “Structural safety of existing buildings near deep excavations”, *Int. J. Structural Engineering*, (2014), Vol. 5, No. 2, pp.163–187, DOI: 10.1504/IJSTRUCTE.2014.060907.
  
19. **Castaldo P.**, Calvello M., Palazzo B. "Probabilistic Analysis of Excavation-Induced Damages to Existing Structures", *Computers and Geotechnics*, (2013), 17-30, DOI: 10.1016/j.compgeo.2013.04.008, ISSN 0266-352X.
  
20. De Iuliis M., **Castaldo P.**, “An Energy-based Approach to the Seismic Control of One-Way Asymmetrical Structural Systems using Semi-Active Devices”, *Ingegneria Sismica – International Journal of Earthquake Engineering*, Patron Editore, Anno XXIX, ISSN: 0393-1420, 2012 (4), pp. 31-42.
  
21. De Iuliis M., **Castaldo P.**, Palazzo B. “Analisi della domanda sismica inelastica del terremoto de L'Aquila su sistemi dimensionati secondo le NTC2008”, *Ingegneria Sismica*, Patron Editore ISSN: 0393-1420, Anno XXVII, 2010 (3), pp. 52-65.



22. Palazzo B., Calvello M., De Iuliis M., **Castaldo P.** “Effects of Deep Excavations on Existing Buildings”, *Proceedings of the 33rd IABSE Symposium on Sustainable Infrastructure, Environment Friendly, Safe and Resource Efficient*, Bangkok, Thailand, September 9-11, 2009.
23. Palazzo B., De Iuliis M., **Castaldo P.** "Non linear response spectra of the near-fault L'Aquila event", *Proceedings of the 14<sup>th</sup> European Conference on Earthquake Engineering - Ohrid*, 30 August-03 September 2010, ISBN 9786086518516, ID 516.
24. Palazzo B., Calvello M., De Iuliis M., **Castaldo P.**, “Effects of Deep Excavations on Existing Buildings: a case study”, *Proceedings of the 13th International Conference of the International Association for Computer Methods and Advances in Geomechanics*, 9-11 May 2011 Melbourne, Australia, ISBN: 9780980824421, pp. 1190-1196.
25. Bruno Palazzo, **Paolo Castaldo**, Ivana Marino(2014). “The Steel Column Damper: A New Hysteretic Device Providing Additional Stiffness And Damping”. In: *7th European Conference on Steel and Composite Structures*, Napoli, Italy, September 10-12, 2014 Brussels ECCS European Convention for Constructional Steel, Pag.1-6 ISBN:9789291471218.
26. Palazzo B., **Castaldo P.**, Della Vecchia P.(2014). “Seismic reliability analysis of base-isolated structures with friction pendulum system”. In: *2014 IEEE Workshop on Environmental, Energy and Structural Monitoring Systems Proceedings*, Napoli September 17-18, 2014 Piscataway IEEE Service Center Pag.114-119 ISBN:9781479949892.
27. Palazzo B., **Castaldo P.**, Della Vecchia P.(2014). “Seismic reliability of base-isolated structures with friction pendulum isolators (FPS)”. In: *2nd European Conference on Earthquake Engineering and Seismology*, Istanbul, August 25-29, 2014, ISBN: 9786056270369.
28. Palazzo B., **Castaldo P.**, Marino I.(2014). “A new hysteretic dissipative column providing additional stiffness and damping”. In: *2nd European Conference on Earthquake Engineering and Seismology*, Istanbul, August 25-29, 2014, ISBN: 9786056270369.
29. Palazzo B., **Castaldo P.**, Mariniello A.(2015). “Time-variant reliability of r.c. structures”. In: *2° International Symposium on Advances in Civil and Infrastructure Engineering*, Salerno, Italy, June 12-13, 2015. – 2016, Applied Mechanics and Materials ISSN: 1662-7482, 847; 407-414, doi:10.4028/www.scientific.net/AMM.847.407.
30. Palazzo B., **Castaldo P.**, Mariniello A.(2015). “Time-variant structural reliability of r.c. structures affected by chloride-induced deterioration”. In: *2° International Workshop on Durability and Sustainability of Concrete Structures – Workshop Proceedings*, ACI, Bologna, Italy, October 1-3, 2015 - American Concrete Institute, ACI Special Publication, 2015-January (SP 305), pp. 19.1-19.10.

	<p>31. <b>Castaldo P.</b>, Amendola G., Palazzo B. (2016). “Seismic reliability-based design of structures isolated by FPS”. <i>ECCOMAS Congress 2016</i>, 5 - 10 June 2016 Crete Island, Greece.</p> <p>32. <b>Castaldo P.</b>, Palazzo B., Perri F., Marino I., Faraco M.M. (2016). “Seismic retrofit of existing buildings through the dissipative columns”. <i>ECCOMAS Congress 2016</i>, 5 - 10 June 2016 Crete Island, Greece.</p> <p>33. <b>Castaldo P.</b>, Palazzo B., Amendola G. (2016). “Seismic reliability of base-isolated structural systems through FPS”, <i>16WCEE</i>, Santiago de Chile, January 9-13, 2017.</p> <p>34. <b>Castaldo P.</b>, Palazzo B., Della Vecchia P. (2016). “Seismic reliability analysis of 3D non-linear base-isolated structures with FPS”, <i>16WCEE</i>, Santiago de Chile, January 9-13, 2017.</p> <p>35. <b>Castaldo P.</b>, Nastri E., Piluso V. (2016). “Evaluation of rotation capacity of RHS aluminium alloy beams by FEM simulation: Temper T4”. In: <i>INALCO</i>, Naples, 21-23 September, 2016.</p> <p>36. <b>Castaldo P.</b>, Nastri E., Piluso V. (2016). “Evaluation of rotation capacity of RHS aluminium alloy beams by FEM simulation: Temper T6”. In: <i>INALCO</i>, Naples, 21-23 September, 2016.</p> <p>37. <b>Castaldo P.</b>, Nastri E., Piluso V. (2016). “Proposal for an empirical evaluation of rotation capacity of RHS aluminium alloy beams based on FEM simulations”. In: <i>INALCO</i>, Naples, 21-23 September, 2016.</p> <p>38. <b>Castaldo P.</b>, Palazzo B., Mariniello A.(2016). “Effects of chloride-induced corrosion on structural reliability of R.C. structures”. In: <i>The New Boundaries of Structural Concrete 2016</i>, September 29-October 1 2016 - Villa Orlandi, Capri Island – Italy.</p>
<p><b>Papers in National Conferences</b></p>	<p>39. Palazzo B., Calvello M., <b>Castaldo P.</b>, De Iuliis M., “Sostenibilità ambientale di scavi profondi in area urbana”, <i>Proceedings of Aicap 2009 Conference</i>, Pisa, 14-16 May 2009, ISBN:9785904045104, pp. 289-297.</p> <p>40. <b>Castaldo P.</b>, De Iuliis M., Palazzo B., “Influenza di Scavi Profondi sulla Risposta Sismica dell’Edificato Adiacente”, <i>Proceedings of ANIDIS 2011</i>, 18-22 settembre 2011, Bari, ISBN:9788875220402, pp. 32.</p> <p>41. De Iuliis M., <b>Castaldo P.</b>, “Approccio prestazionale per la progettazione integrata di sistemi strutturali dotati di dispositivi viscosi lineari”, <i>Proceedings of ANIDIS 2011</i>, 18-22 settembre 2011, Bari, ISBN:9788875220402, pp. 302.</p> <p>42. <b>Castaldo P.</b>, De Iuliis M., “Optimal integrated design of structural and viscoelastic bracing-damper systems: theoretical principles”, <i>XV Convegno ANIDIS 2013: L’Ingegneria Sismica in Italia</i>, Padova, 30 giugno - 04 luglio 2013, Padova University Press, ISBN: 9788897385592, pp. 1-10.</p>

	<p><b>43. Castaldo P.,</b> Palazzo B., “A simplified approach for the integrated design of viscoelastically damped structural systems”, <i>XV Convegno ANIDIS 2013: L’Ingegneria Sismica in Italia</i>, Padova, 30 giugno - 04 luglio 2013, Padova University Press, ISBN: 9788897385592, pp. 1-10.</p> <p><b>44.</b> Palazzo B., <b>Castaldo P.,</b> Amendola G. “Seismic Reliability of Structural Systems Isolated by FPS”, <i>XVI Convegno ANIDIS 2015: L’Ingegneria Sismica in Italia</i>, L’Aquila, 13-17 settembre 2015, ISBN:9788894098563.</p> <p><b>45.</b> Palazzo B., <b>Castaldo P.,</b> Della Vecchia P. “Seismic reliability of 3D base-isolated structures through FPS with elastic superstructure”, <i>XVI Convegno ANIDIS 2015: L’Ingegneria Sismica in Italia</i>, L’Aquila, 13-17 settembre 2015, ISBN:9788894098563.</p> <p><b>46.</b> Palazzo B., <b>Castaldo P.,</b> Della Vecchia P. “Seismic reliability analysis of 3D base-isolated structures through FPS with non-linear superstructure”, <i>XVI Convegno ANIDIS 2015: L’Ingegneria Sismica in Italia</i>, L’Aquila, 13-17 settembre 2015, ISBN:9788894098563.</p> <p><b>47.</b> Palazzo B., <b>Castaldo P.,</b> Amendola G. “Seismic Reliability of Steel Structural Systems Isolated by FPS”, <i>XXV Convegno CTA 2015: Le Giornate Italiane della Costruzione in Acciaio - The Italian Steel Days</i>, vol.2, pp. 653-662, Salerno, 1-3 ottobre 2015.</p> <p><b>48.</b> Palazzo B., <b>Castaldo P.,</b> Perri F. “The Dissipative column as new steel damper”, In: <i>XXV Convegno CTA 2015: Le Giornate Italiane della Costruzione in Acciaio - The Italian Steel Days</i>, vol.2, pp. 663-674, Salerno, 1-3 ottobre 2015.</p> <p><b>49. Castaldo P.,</b> Palazzo B., Della Vecchia P. “Life-cycle cost analysis of 3D r.c. structures equipped with FPS bearings: Italian concrete days - Analisi dei costi nel ciclo di vita di strutture in c.a. dotate di isolatori FPS: Giornate aicap 2016 Congresso CTE”, In: <i>ITALIAN CONCRETE DAYS Giornate AICAP 2016 - Congresso CTE “EVOLUZIONE e SOSTENIBILITA’ delle STRUTTURE IN CALCESTRUZZO”</i>, 27-28 Ottobre 2016 – Roma, Italy.</p> <p><b>50. Castaldo P.,</b> Palazzo B., Mariniello A. “Lifetime axial-bending capacity of a r.c. bridge pier cross-section subjected to corrosion: Italian concrete days - Resistenza a presso-flessione nel tempo di una sezione in c.a. di una pila da ponte soggetta a corrosione: Giornate aicap 2016 Congresso CTE”, In: <i>ITALIAN CONCRETE DAYS Giornate AICAP 2016 - Congresso CTE “EVOLUZIONE e SOSTENIBILITA’ delle STRUTTURE IN CALCESTRUZZO”</i>, 27-28 Ottobre 2016 – Roma, Italy.</p>
<p><b>Lecture notes</b></p>	<p><b>51. Lecture notes in “Structural Engineering Analysis”:</b> “Impostazione Probabilistica dell’affidabilità strutturale”, University of Salerno.</p>
<p><b>Patent</b></p>	<p><b><u>“Dissipatore isteretico perfezionato”</u></b>  <b><u>Code of patent demand:</u></b> MI2014A000448 - 102014902243747 date: 18/03/2014  <b><u>Patent code:</u></b> 1422722 date: 07/06/2016</p>

<b>Local organizing committee of seminars</b>	<ul style="list-style-type: none"> <li>• “Imparando dal terremoto Aquilano”, University of Salerno, June 2009;</li> <li>• “Il Grande Terremoto dell’Irpinia: Trent’anni dopo”, 23 November 2010 – University of Salerno;</li> <li>• “Scavi profondi in aree urbane, Il crollo di palazzo Guevara a Napoli, Le difficoltà della messa in sicurezza post-evento”, 30 May 2013, University of Salerno.</li> <li>• Ponteggiando – Bridging, ”MOSTRA DEI PROGETTI DEI PONTI REALIZZATI, STUDIATI O ISPIRATI DA ENZO SIVIERO”, 24 May-11 June 2010, University of Salerno.</li> </ul>
<b>Local organizing committee of National Conferences</b>	<p><b><u>CTA2015:</u></b> Congresso Tecnici Acciaio 1-3 October 2015 – University of Salerno</p> <p><b><u>CTA2017:</u></b> Congresso Tecnici Acciaio 28-30 September 2017 – University of Venice</p>
<b>Visiting Scholar in foreign Universities</b>	<p>Visiting Scholar at the Department of Structural &amp; Geotechnical Engineering, Pontificia Universidad Catolica de Chile (Santiago, Chile) from March 25 to April 11, 2016.</p>
<b>Teaching Activity within undergraduate and graduate courses in foreign Universities</b>	<p>Lectures in some of undergraduate and graduate courses at the Department of Structural &amp; Geotechnical Engineering, Pontificia Universidad Catolica de Chile (Santiago, Chile) from March 25 to April 11, 2016.</p>
<b>Seminar in foreign Universities</b>	<p>Seminar entitled “Seismic reliability-based design of structures isolated by FPS” at the Department of Structural &amp; Geotechnical Engineering, Pontificia Universidad Catolica de Chile (Santiago, Chile).</p>
<b>Academic interactions and collaborations</b>	<p>Over the years, I have created productive links with several people from universities around the world (such as Dr. Massimiliano De Iuliis (University of Central Lancashire), Dr. Enrico Tubaldi (Imperial College London), Prof. Joel Conte (University of California, San Diego), Prof. Uwe Dorka (University of Kassel), Prof. Fatemeh Jalayer (University of Naples), Prof. Paula Folino and Dr. Marianela Ripani (University of Buenos Aires)) and Prof. Diego Lopez-Garcia (Pontificia Universidad Catolica de Chile).</p>
<b>Editorial Board Member</b>	<p>“Journal of Civil, Construction and Environmental Engineering (JCCEE)” since 2016</p>

Teaching Activity	
	<p>Lessons in practice and theory on the following courses at the University of Salerno:</p> <ul style="list-style-type: none"> <li>• <i>Structural Engineering</i></li> <li>• <i>Earthquake Engineering</i></li> <li>• <i>Design of Bridges</i></li> </ul> <p>held by prof. B. Palazzo from 2008-2009 to 2016-2017.</p> <p>Lessons in practice and theory on the following courses from 2016-2017 at the University of Salerno:</p> <ul style="list-style-type: none"> <li>• <i>Mathematics</i></li> <li>• <i>Physics</i></li> </ul> <p>Tutoring students at the University of Salerno on “<i>Structural Engineering, Seismic Engineering, Design of Bridge</i>” courses, held by Prof. B. Palazzo, for academic years: from 2008-2009 to 2016-2017.</p> <p>Lessons in practice and theory on the following course at Politecnico di Torino:</p> <ul style="list-style-type: none"> <li>• <i>Structural Engineering</i></li> </ul> <p><i>Co-Supervisor of the following Specialised degree dissertations in Civil Engineering at the University of Salerno:</i></p> <ul style="list-style-type: none"> <li>• “Use of isolation for the seismic retrofit of existing bridge structures” (2009)</li> <li>• “Strategie innovative di progetto per il controllo delle prestazioni sismiche delle costruzioni esistenti e di nuova realizzazione mediante l’impiego di dissipatori di energia” (2010)</li> <li>• “Analisi della risposta sismica dell’ambiente urbano in corrispondenza di gallerie superficiali nel caso di terreni non coesivi” (2011)</li> <li>• “Affidabilità di sistemi sismicamente isolati mediante dispositivi ad attrito a superficie curva (FPS)” (2014)</li> <li>• “Affidabilità sismica di sistemi isolati alla base con dispositivi ad attrito a superficie curva” (2014)</li> <li>• “Affidabilità strutturale nel tempo delle costruzioni in calcestruzzo armato soggette a degrado” (2014)</li> <li>• “Scavo a cielo aperto e in sotterraneo: Tecniche e procedimenti costruttivi” (2015)</li> <li>• “Piping hazard analysis of deep excavations in saturated sandy soils due to imperfections in concrete retaining walls” (2015)</li> </ul>

- “Indagine sull’affidabilità prestazionale di sistemi non lineari isolati alla base con dispositivi ad attrito a superficie curva – Casistica dei dispositivi con basso fattore di attrito” (2015)
- “Indagine sull’affidabilità prestazionale di sistemi non lineari isolati alla base con dispositivi ad attrito a superficie curva – Casistica dei dispositivi ad alti fattori di attrito” (2015)
- “Dispositivi innovativi di dissipazione di energia sismica: analisi del comportamento della colonna dissipativa” (2015)
- “Seismic reliability of non-linear hardening superstructures isolated with FPS” (2016)
- “Seismic reliability of non-linear softening superstructures isolated with FPS” (2016)
- “Influence of PGA/PGV ratio on the seismic reliability of E.P.P. systems isolated with FPS” (2016)
- “Delamination effects of FP bearings on the seismic reliability of a 3D base-isolated structure” (2016)
- “Theory of plastic mechanism control for stochastic steel frames” (2017)
- “Optimum friction coefficients for bridge pier isolated by friction pendulum devices” (2017)
- “Optimal friction coefficient of curved surface sliders for bridge isolation in different soil conditions” (2017)