

PERSONAL INFORMATION



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h-index:	17	(Scopus source)
Documents by author:	54	(Scopus source)
Total citations:	1070 by 753 documents	(Scopus source)

PERSONAL STATEMENT

Assistant Professor of Civil Engineering at the University of Basilicata.
National Scientific Habilitation for Associated Professor.

PhD “Design, monitoring and retrofitting of conventional and innovative structures” at the Faculty of Architecture of University of Chieti – Pescara (Italy), 2002.

The research activities are mainly related to earthquake engineering problems. Scientific research activities were carried out in the large field of seismic engineering following a logical and structured path. Over the years, the research activity has been focused in the study and development of accurate numerical models aimed at studying the vulnerability of RC buildings.

Some experimental activities for the study and development of survey methodologies for evaluating the mechanical properties of concrete have been carried out on structural elements and structures. Over the recent years, an innovative research line is the activities related to the evaluation of the dynamic characteristics of structures through numerical models and laboratory experiments based on real cases. The applications of these activities are both in the study, on a large scale, of the seismic vulnerability (e.g. by means of remote sensing) and in the study, on individual buildings, of the damage caused by the earthquake.

Finally, a novel and multidisciplinary approach to seismic risk mitigation is studied based on the concept of resilience. Thus, interventions at urban scale and for strategic buildings, reducing their seismic vulnerability, have been defined using a spatial multi-criteria approach and a multi-criteria decision making analysis.

Marco Vona is membership of IALCCE – International Association for Life-Cycle Civil Engineering.

RESEARCH AND PROFESSIONAL INTEREST

- Civil Engineering.
- Earthquake Engineering.
- Seismic Design, Analysis of Structural and Nonstructural Components.
- Vulnerability Assessment and Retrofitting of Structures.
- Seismic Risk Analysis.
- Resilience and Sustainability.
- Experimental Research Lab Activities.

EDITORIAL ACTIVITIES

Marco Vona is editorial board member of:

1. Structures, <https://www.journals.elsevier.com/structures/editorial-board>, (Elsevier).
2. Applied Sciences. Section Board for Civil Engineering (MDPI), https://www.mdpi.com/journal/applsci/sectioneditors/civil_engineering.
3. The Open Construction & Building Technology Journal (Bentham). Current Frontiers Section Editor: Seismic Risk Mitigation. <https://openconstructionbuildingtechnologyjournal.com/editorial-board.php>.
4. Journal of Civil Engineering and Architecture Research (Ethan Publishing Company).
5. African Journal of Engineering (Hindawi Publishing Corporation).

Marco Vona was the Editorial Guest for the Special Issue:

“Evaluation and Mitigation of Seismic Risk for Existing Buildings, Structures, and Infrastructures”. Applied Sciences, Civil Engineering. (MDPI) 2019.

Marco Vona was editorial board member of “The Scientific World Journal” (Civil Engineer), 2012 - 2016.

He is reviewer of national and international project and of international prestigious journals:

1. Applied Sciences, Civil Engineering (MDPI).
2. Arabian Journal for Science and Engineering (Elsevier).
3. Automation in Construction (Elsevier).
4. Bridge Engineering, Proceedings of the Institution of Civil Engineers.
5. Buildings (MDPI).
6. Bulletin of Earthquake Engineering (Springer).
7. Cities (Elsevier)
8. Computers and Concrete An International Journal (TECHNO PRESS).
9. Disaster Advances.
10. Earthquakes and Structures (TECHNO PRESS).
11. Earthquake Engineering and Engineering Vibration (Springer).
12. Earthquake Engineering and Structural Dynamics (Elsevier).
13. Earthquake Spectra (EERI).
14. Engineering Structures (Elsevier).
15. Habitat International (Elsevier).
16. Infrastructures (MDPI).
17. International Journal of Environmental Research and Public Health — Open Access Journal (MDPI).
18. International Journal of Architectural Heritage (Taylor and Francis).
19. Land (MDPI).
20. Journal of Building Engineering (Elsevier).
21. Journal of Structural Engineering (ASCE).
22. Journal of Civil Engineering and Architecture Research (Ethan Publishing Company).
23. Journal of Earthquake Engineering (Taylor and Francis).
24. Land (MDPI)
25. Materials (MDPI).
26. Natural Hazard (Springer).
27. Open Journal of Civil Engineering (Scientific Research Publishing).
28. The Open Construction & Building Technology Journal (Bentham Open).
29. Risk Analysis (Wiley).
30. Soil Dynamic And Earthquake Engineering (Elsevier).
31. Structural Engineering and Mechanics (Techno Press).
32. Structure and Infrastructure Engineering (Taylor and Francis).
33. Structures (Elsevier).
34. Sustainability (MDPI).

35. Sustainable Cities and Society (Elsevier).
36. The Open Construction & Building Technology Journal (Bentham Open).
37. The Scientific World Journal - Civil Engineering (Hindawi).
38. The Arabian Journal for Science and Engineering (Springer).

Marco Vona is reviewer of several proposal and project for different authority and corporation as:

- Ministry of Education, University, and Research, Italy.
- Ministry of Science, Technology & Space, Israel.
- Ministry of Education and Science of the Republic of Armenia.

Marco Vona is organizer and chair in national and international conferences.

- ICCSA 2021, Cagliari (Italy), July 5-8, 2021.
- COMPDYN 2021, 27-30 June 2021, Athens, Greece.
- ICCSA 2020, Cagliari (Italy), July 1 – 4, 2020.
- COMPDYN 2019, 24-26 June 2019, Crete, Greece.
- ICCSA ASTER 2019, Saint Petersburg, Russia, 1 – 4 July 2019.
- ICCSA ASTER 2018, Melbourne, Australia, 2 – 5 July 2018
- ICCSA ASTER 2017, Trieste, Italy, 3 – 6 July 2017.
- COMPDYN 2017, Rhodes Island, Greece, 15 – 17 June 2017.
- ECCOMAS 2016, Crete Island, Greece, 5 – 10, June 2016.
- ICCSA ASTER 2016, Beijing, China, July 4 – 7, 2016.
- ICCSA ASTER 2015 Banff, Canada, 22 – 25 June 2015.

Marco Vona is Scientific committee member of Biennial of University Book <http://www.biennalelibrouniversitario.it/>.

COURSES TAUGHT AND SERVICES IN ACADEMIC EDUCATION

- 2017 – Teaching Programm in Erasmus+ Programme - Key Action 1. Universitatea Tehnica de Constructii din Bucuresti.
- 2017 – Teaching Programm in Euro-Latin America partnership in natural Risk mitigation and protection of the Cultural Heritage" — ELARCH Project. Pontificia Universidad Catolica del Perú (PUCP)– Lima (Perù).
- 2009 – present. Design of structures, School of Engineering - University of Basilicata.
- 2009 – present. Structural Rehabilitation, School of Engineering - University of Basilicata.
- 2009 – present. Member of the Board Committee of the Ph.D. Seismic risk, structural and geotechnical engineering. Faculty of Engineering – University of Basilicata.
- 2013 – present. Member of the Board Committee of the Ph.D. Engineering for Innovation and sustainable development, School of Engineering – University of Basilicata.
- 2002 – present. Advisor and Co-advisor of more than 80 theses.
- 2015 – 2018. Co-advisor of PhD student. ELARCH Project.
- 2015 – 2018. Co-advisor of PhD students.

GOVERNANCE AND MANAGEMENT EXPERIENCE

- Delegate of the Rector (University of Basilicata) for sports activities and relations with CUSI (National University Sports Committee) January 2020.
- Member of the Board CUS POTENZA – Delegate of the Rector (University of Basilicata,). May 2019.
- Scientific manager of Material Testing Section of The materials and structures test laboratory, University of Basilicata,

- <https://www.unibassislab.it/>.
- August 2012 – October 2016, member of Accademic Senate (Senato Accademico) of Basilicata University.
 - March – October 2011 Member of the Board for amendment of the Statute of the University of Basilicata.
 - 2009 at present, Member of several Institutional Board (for example Commission for "General Regulatory").
 - October 2013 – July 2017, member of Board of Administrative Directors of "Fondazione dell'Ordine degli Ingegneri" Province of Potenza, Italy.
 - Marco Vona is member Disciplinary Board of the Association of Engineering (Ordine degli Ingegneri) of Potenza.

MAIN RESEARCH AND TEACHING PROJECTS

- Mitigation of natural hazards for safety and mobility in mountain areas of southern Italy. "Progetti di Ricerca Industriale e Sviluppo Sperimentale nelle 12 aree di specializzazione individuate dal PNR 2015-2020". September 2020 – September 2023. Marco Vona is coordinator for the RO3, dedicated to the evaluation of the seismic risk.
- Project Coordinator (2018 – 2022) AIM: Attraction and International Mobility – Area di Specializzazione: Tecnologie per il Patrimonio Culturale Linea 1. Proposta vincitrice, ai sensi del D.D. MIUR n.3407 del 21.12.2019, per l'assunzione di n.2 ricercatori a tempo determinato con contratto di "tipo a" per il regime di tempo pieno
- Project Coordinator: "Studio per la definizione operativa delle strategie di intervento per le case di guardia delle dighe basate su un approccio innovativo" (Study for the retrofitting strategies for dam guard-houses based on innovative approach), E.I.P.L.I. – SI_UNIBAS cooperation agreement, 2020.
- Project Coordinator: "Studio per la definizione di modelli di valutazione delle prestazioni sismiche ed intervento delle opere accessorie delle dighe. Parte 2" (Study seismic performance evaluation and intervention of the accessory structures of the dams. II Part), E.I.P.L.I. - SI_UNIBAS cooperation agreement, 2018 – 2019.
- Project Coordinator: "Studio per la definizione di modelli di valutazione delle prestazioni sismiche ed intervento delle opere accessorie delle dighe" (Study seismic performance evaluation and intervention of the accessory structures of the dams), E.I.P.L.I. – SI_UNIBAS cooperation agreement, 2018.
- National Project DPC-RELUIS 2019 – 2021 – WP15: Isolamento Sismico e Dissipazione. Ref.: Prof. Felice Carlo Pozzo. Component of unit research.
- Contributi normativi relativi a Isolamento e Dissipazione
- Project Coordinator: "Utilizzo di tecniche e metodi innovativi per la costruzione e l'implementazione di modelli economici finalizzati alla valorizzazione del patrimonio immobiliare di interesse storico culturale esposto a rischi naturali". Dottorato di ricerca "Innovativo a caratterizzazione industriale" per l'Anno Accademico 2017/2018 – Ciclo XXXIII. Assignment of additional scholarships based on competitive selection. DD 3749 del 29-12-2017, MIUR.
- Cooperation Agreement Coordinator (2017) between Università degli studi della Basilicata and Pontificia Universidad Católica del Perú (PUCP)– Lima (Perù). <http://accordi-internazionali.cineca.it/accordi.php>.
- Cooperation Agreement Coordinator (2016) Erasmus+ Programme – Key Action 1 – Mobility for learners and staff – Higher Education Student and Staff Mobility stipulato tra Università degli studi della Basilicata e Universitatea Tehnica de Constructii din Bucuresti.
- Fellowship assigned for applying to the 2nd call (2016) of the "Euro-

- Latin America partnership in natural Risk mitigation and protection of the Cultural Heritage" — ELARCH Project, coordinated by the University degli Studi della Basilicata (Italy) and funded by the European Union, within the framework of the Erasmus Mundus Programme.
- Cooperation Agreement CGIAM e – SI UNIBAS “Studio, Ricerca e Sperimentazione in materia di Analisi e Monitoraggio della Vulnerabilità Sismica di Edifici Strategici e Rilevanti ai fini di Protezione Civile e Sviluppo di Strategie Innovative di Intervento – Edifici Scolastici”. Ref.: Prof. Felice Carlo Ponso. Component of unit research.
 - National Project DPC-RELUIS 2014 – 2016 – Linea L6: Isolamento Simico e Dissipazione. Ref.: Prof. Felice Carlo Ponso. Component of unit research.
 - National Project PRIN 2010. Models and algorithms for the nonlinear analysis of structures and the validation of performance-based design rules. Component of unit research: University of Basilicata.
 - Research Contract University of Basilicata – Provincia di Potenza, 2012 – 2013. Innovative methodologies for study and analysis of seismic risk at sub-regional scale. Coordinator.
 - National Project DPC-RELUIS 2010 – 2013. TASK 1.1.2 – RC existing buildings. Component of unit research (limited to 2010): University of Basilicata.
 - Research Contract University of Basilicata – RELUIS. Seismic evaluation and retrofitting strategies for buildings school in L’Aquila province (Italy). Component of unit research: University of Basilicata. October 2009 – May 2011.
 - Research Contract University of Basilicata – Navelli town, 2009 – 2010. Seismic evaluation and retrofitting strategies for municipality building of Navelli (AQ – Italy). Coordinator.
 - National Project DPC-RELUIS 2005 – 2008. Research Line n. 2. Assessment and reduction of the vulnerability of RC existing buildings. Task 1 – MND: Non-destructive methods for the knowledge of existing structures. Component of unit research: University of Basilicata.
 - National Project DPC-RELUIS 2005 – 2008. Research Line n. 2. Assessment and reduction of the vulnerability of RC existing buildings. Task 2 (FC): Calibration of Confidence Factors. Component of unit research: University of Basilicata.
 - National Project DPC-RELUIS 2005 – 2008. Research Line n. 10. Definition and Development of Databases for Risk Evaluation, Emergency Planning and Management. Task 2: Residential buildings. Component of unit research: University of Basilicata.
 - National Project DPC-RELUIS 2005 – 2008. Research Line n. 10. Definition and Development of Databases for Risk Evaluation, Emergency Planning and Management. Task 3: Public and strategic buildings. Component of unit research: University of Basilicata.
 - National Project DPC-RELUIS 2005 – 2008. Research Line n. 10. Definition and Development of Databases for Risk Evaluation, Emergency Planning and Management. Task 9: Development database and GIS. Component of unit research: University of Basilicata.
 - National Project DPC – INGV. 2005 – 2008. S3 Project – Deliverables D18, D19, D24. Component of unit research: University of Basilicata.
 - International Project NATO Program 980857: Science for Peace and Security (SPS). Component of unit research: University of Basilicata.
 - Research Contract Marco Vona (consultant and coordinator) – SMA Basilicata (Meteorology and Environment Systems), partially funded by the Basilicata Region, 2002 – 2004. Survey and evaluation of the

- seismic vulnerability of the residential building stock of Basilicata region.
- International Project ENSERVES-European Network on Seismic Risk, Vulnerability, and Earthquake Scenarios, 1997 – 2001. Funded by European Union. Component of unit research: University of Basilicata.

MAIN PROFESSIONAL ACTIVITIES

2009 at present	Assistant Professor University of Basilicata, Viale dell'Ateneo Lucano, 10 – Potenza
2009 at present	Professional experience as consultant engineer for retrofitting problems and innovative structures.
July – October 2009	Chief structural design 4 Reinforced Concrete Buildings with Base Isolation System (Potenza, Italy) Private Contractor
August – December 2008	Chief structural design Seismic vulnerability evaluation of buildings school Town Municipal Administration - Viggiano, Italy
February – September 2008	Chief structural design Seismic vulnerability evaluation and Seismic retrofitting of buildings school Town Municipal Administration - Castelmezzano, Italy
October 2007 – April 2008	Chief structural design Seismic vulnerability evaluation of Police Headquarters (Matera, Italy) Matera Prefecture - Ministry of the Interior (Italy)
September 2006 – February 2008	Chief structural design Seismic retrofitting of buildings school (Potenza, Italy) Province of Potenza (Italy)
June – September 2007	Structural design Analysis of experimental data of concrete extracted from medium / low quality RC buildings DiSGG – University of Basilicata
May – November 2006	Structural design Seismic vulnerability evaluation and retrofitting strategies of buildings school (Ravenna, Italy) Town Municipal Administration - Ravenna, Italy
September – November 2006	Structural design Seismic vulnerability evaluation of 14 RC buildings and retrofitting strategies (Melfi, Italy) DiSGG – University of Basilicata
January 2002 – June 2004	Chief Engineer. Survey of dwelling buildings of 18 villages (Val d'Agri, Italy) for seismic loss assessment at urban scale. SMA Basilicata.

INTERNATIONAL EXPERIENCES

2019, November	Universitatea Tehnica De Constructii Din Bucuresti. Erasmus Project. Conference of the Doctoral School DSC 2019.
2017, January – March	Pontificia Università Cattolica del Perù (PUCP) Lima, Perù. ELARCH PROJECT

2017, June

2007, February

Universitatea Tehnica De Constructii Din Bucuresti. Erasmus Project

GFZ, GeoForschungsZentrum Potsdam (GFZ), Germany. Collaborazione nell'ambito del Progetto S3 – Scenari di scuotimento in aree di interesse prioritario e/o strategico. Progetti sismologici di interesse per il DPC. Convenzione INGV – DPC 2004 -2006

MAIN PUBLICATIONS

International Journals

1. Vona, M.. Proactive actions based on a resilient approach to urban seismic risk mitigation. *Open Construction and Building Technology Journal*, 2020, 14(1), pp. 321–335.
2. Saganeiti, L., Amato, F., Nolè, G., Vona, M., Murgante, B., Early estimation of ground displacements and building damage after seismic events using SAR and LiDAR data: The case of the Amatrice earthquake in central Italy, on 24th August 2016. *International Journal of Disaster Risk Reduction*, 2020, 51, 101924
3. Vona, M., 2020. A novel approach to improve the code provision based on a seismic risk index for existing buildings, *Journal of Building Engineering*. 28,101037, 2020.
4. Anelli, A., Vona, M., Hidalgo, S.S.C.. Comparison of different intervention options for massive seismic upgrading of essential facilities. *Buildings*, 2020, 10(10), 125.
5. Anelli, A., Mori, F., Vona, M.. Fragility Curves of the Urban Road Network Based on the Debris Distributions of Interfering Buildings. *Appl. Sci.* 2020, 10, 1289. Special issue: "Evaluation and mitigation of seismic risk for existing buildings, structures, and infrastructures". Guest Editor: Marco VONA.
6. Anelli A, Santa-Cruz S, Vona M, Tarque N, Laterza M, 2019, A proactive and resilient seismic risk mitigation strategy for existing school buildings, *Structure and Infrastructure Engineering*, 15(2), pp. 137-151.
7. Vona M, Manganelli B, Tataranna S, Anelli A, 2018, An optimized procedure to estimate the economic seismic losses of existing reinforced concrete buildings due to seismic damage. *Building*, Volume 8, Issue 10, Article number 144, Open Access
8. Anelli A, Santa-Cruz S, Vona M, Tarque N, Laterza M, 2018, A proactive and resilient seismic risk mitigation strategy for existing school buildings, *Structure and Infrastructure Engineering*, Taylor & Francis, Accepted for printing.
9. Manganelli B., Vona M., De Paola P, 2018, Evaluating the cost and benefits of earthquake protection of buildings, *Journal of European Real Estate Research*, Vol. 11 Issue: 2, pp.263-278, <https://doi.org/10.1108/JERER-09-2017-0029>.
10. Vona M., Mastroberti M., Mitidieri L., Tataranna S., 2018. New resilience model of communities based on numerical evaluation and observed post seismic reconstruction process. *International Journal of Disaster Risk Reduction*. In Press, <https://doi.org/10.1016/j.ijdr.2018.01.010>
11. Vona M., Mastroberti M., 2018. Estimation of the behavior factor of existing RC-MRF Buildings. *Earthquake Engineering & Engineering Vibration*, 17(1), pp. 191-204.
12. Vona M, Cascini G., Mastroberti M., Murgante B., Nolè G.. 2017. Characterization of URM buildings and evaluation of damages in a historical center for the seismic risk mitigation and emergency management. *International Journal of Disaster Risk Reduction*. 24, September 2017, pp 251–263.
13. Vona M, Anelli A, Mastroberti M, Murgante B and Santa-Cruz S. Prioritization Strategies to reduce the Seismic Risk of the Public and Strategic Buildings. *Disaster Advanced*, 10(4) April 2017
14. Vona M., Harabaglia P., Murgante B., 2016. Thinking about resilience cities studynig Italian earthquake. *Proceedings of the Institution of Civil Engineers: Urban Design and Planning*. 169(4),

- Pages 185-199
15. Vona M., Nigro D., 2015, Experimental evaluation of the core drilling effects on the capacity of RC columns. *Materials and Structures*. 48(4): 1043-1059. DOI: 10.1617/s11527-013-0214-2.
 16. Ditommaso, R., Vona, M., Masi, A., Mucciarelli, M., Ponso, F.C. 2014. Framed structures: Detection of building torsional modes using a simplified experimental approach. *Ingegneria Sismica*. 31(3).
 17. Di Cesare A., Ponso F.C., Vona M., Dolce M., Masi A., Gallipoli M. R., Mucciarelli M., 2014. Identification of the structural model and analysis of the global seismic behaviour of a RC damaged building. *Soil Dynamics and Earthquake Engineering*. 65: 131-141. DOI: 10.1016/j.soildyn.2014.06.005.
 18. Vona M., 2014, Fragility curves of existing RC buildings based on specific structural performance levels. *Open Journal of Civil Engineering*. 4(2): 120-134. 10.4236/ojce.2014.42011.
 19. Masi A., Chiauzzi L., Samela C., Tosco L. and Vona M., 2014. Survey of dwelling buildings for seismic loss assessment at urban scale: the case study of 18 villages in Val d'Agri, Italy. *Environmental Engineering and Management Journal*. Vol. 13(2), 471-486.
http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol13/no2/26_401_Masi_12.pdf
 20. Ditommaso R., Vona M., Gallipoli M. R., Mucciarelli M., 2013. Evaluation and considerations about fundamental periods of damaged reinforced concrete buildings. *Natural Hazard and Earth System Science*. 13, 1903-1912, 2013c. doi:10.5194/nhess-13-1903-2013.
 21. Puglia R., Vona M., Klin P., Ladina C., Masi A., Priolo E., Silvestri F., 2013. Analysis of site response and building damage distribution due to the 31 October 2002 earthquake at San Giuliano di Puglia (Italy). *Earthquake Spectra*. 06/2013; 29(2):497-526. DOI:<http://dx.doi.org/10.1193/1.4000134>.
 22. Borzi B., Vona M., Masi A., Pinho R., Pola D., 2013. Seismic demand estimation of RC frame 1 buildings based on simplified and nonlinear dynamic analyses, *Earthquakes and Structures*. Vol. 4, n° 2.
 23. Masi, A., Vona M., 2012. Vulnerability assessment of gravity-load designed RC buildings: evaluation of seismic capacity through non linear dynamic analyses, *Engineering Structures* 45 (2012), 257–269.
 24. Tilio L., Murgante B., Di Trani F., Vona M. and Masi A., 2012. Mitigation of urban vulnerability through a spatial multicriteria approach. *Disaster Advances*. Vol. 5 (3).
 25. Chiauzzi L., Masi A., Mucciarelli M., Vona M., Pacor F., Cultrera G., Gallovič F., Emolo A.. 2012. Building damage scenarios based on exploitation of Housner intensity derived from finite faults ground motion simulations. *Bulletin of Earthquake Engineering*. Volume 10, Number 2 (2012), 517-545. DOI 10.1007/s10518-011-9309-8.
 26. Mucciarelli M., Bianca M., Ditommaso R., Vona M., Gallipoli M.R., Giocoli A., Piscitelli S., Rizzo E., Picozzi M., 2011, Peculiar earthquake damage on a reinforced concrete building in San Gregorio (L'Aquila, Italy): site effects or building defects? *Bulletin of Earthquake Engineering*. Volume 9, Number 3, 825-840, DOI: 10.1007/s10518-011-9257-3.
 27. Picozzi M., Parolai S., Mucciarelli M., Milkereit C., Bindi D., Ditommaso R., Vona M., Gallipoli M.R. and Zschau J., 2011. Interferometric analysis of strong ground motion for structural health monitoring: the example of the L'Aquila (Italy) seismic sequence, 2009. *Bulletin of the Seismological Society of America*. Accepted: October 2010. Vol. 101, No. 2, pp.–, April 2011, doi: 10.1785/0120100070.
 28. Masi A., Chiauzzi L. Braga F., Mucciarelli M., Vona M., Ditommaso R., 2011, Peak and integral seismic parameters of L'Aquila 2009 ground motions: observed vs code provision values. *Bulletin of Earthquake Engineering*. Volume 9, Number 1 / February 2011. DOI 10.1007/s10518-010-9227-1.

29. Masi, A., Vona M., Mucciarelli M., 2011. Selection of natural and synthetic accelerograms for seismic vulnerability studies on RC frames, *Journal of Structural Engineering*, March 2011 / 1, Vol. 137 N°3. DOI: 10.1061/(ASCE)ST.1943-541X.209. ISSN: 0970-0137.
 30. Mucciarelli M., Bianca M., Ditommaso R., Gallipoli M.R., Masi A., Milkereit C., Parolai S., Picozzi M., Vona M., 2011. Far field damage on RC buildings: the case study of Navelli during the L'Aquila (Italy) seismic sequence, 2009. *Bulletin of Earthquake Engineering*, Volume 9, Number 1 / February 2011. DOI: 10.1007/s10518-010-9201-y. ISSN: 1570-761X.
 31. Braga F., Manfredi V., Masi A., Salvatori A., Vona M., 2011. Performance of non-structural elements in RC buildings during the L'Aquila, 2009 earthquake. *Bulletin of Earthquake Engineering*, Volume 9, Number 1 / February 2011. DOI: 10.1007/s10518-010-9205-7. ISSN: 1570-761X.
 32. Masi, A., Vona M., 2010. Experimental and numerical evaluation of the fundamental period of undamaged and damaged rc buildings, *Bulletin of Earthquake Engineering*, Special Issue Ambient Noise. Volume 8, Issue 3 (2010), Page 643. DOI: 10.1007/s10518-009-9136-3. ISSN: 1570-761X.
 33. Picozzi M, Ditommaso R., Parolai, S., Mucciarelli, M., Milkereit C., Sobiesiak M., Di Giacomo D., Gallipoli M.R., Pilz M., Vona M., Zschau J., 2009, Real time monitoring of structures in task-force missions: the example of the Mw = 6.3 Central Italy Earthquake, April 6, 2009. Letter to the Editor, *Natural Hazard*, October 2009. DOI: 10.1007/s11069-009-9481-1. ISSN: 0921-030X.
 34. Gallipoli M.R., Mucciarelli M., Vona M., 2009. Empirical estimate of fundamental frequencies and relevant damping for Italian building, *Earthquake Engineering and Structural Dynamics*, Volume 38, Issue 8, July 2009, Pages: 973-988. DOI: 10.1002/eqe.878. ISSN: 1096-9845.
 35. Dolce M., Kappos A., Masi A., Penelis G., Vona M., 2006. Vulnerability assessment and earthquake scenarios of the building stock of potenza (southern italy) using italian and greek methodologies, *Engineering Structures* 28 (2006) 357–371. DOI:10.1016/j.engstruct.2005.08.009. ISBN/ISSN: 978-1-4020-9194-0.
 36. Mucciarelli M., Masi A., Gallipoli M.R., Harabaglia P., Vona M., Ponso F., Dolce M., 2004. Analysis of RC Building Dynamic Response and Soil-Building Resonance Based on Data Recorded during a Damaging Earthquake (Molise, Italy, 2002), *Bulletin of the Seismological Society of America*, Vol. 94, No. 5, pp. 1943–1953, October 2004. DOI: 10.1785/012003186.
 37. Mucciarelli M., Masi A., Vona M., Gallipoli M.R., Harabaglia P., Caputo R., Piscitelli S., Rizzo E., Picozzi M., Albarello D, Lizza C., 2003. Quick survey of the possible causes of damage enhancement observed in san giuliano after the 2002 molise, italy seismic sequence, *Journal of Earthquake Engineering*, Vol. 7, No. 3 (2003) (pagg. 1-17), Imperial College Press.
 38. Dolce M., Marino M., Masi A., Vona M., 2003. Earthquake damage scenarios of the building stock of potenza town (southern italy) including site effects, *Bulletin of Earthquake Engineering*, Volume 1, Number 1, 115-140, DOI: 10.1023/A:1024809511362.
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- International Conferences**
1. Vona, M.. Changing from the Emergency Plan to the Resilience Plan: A Novel Approach to Civil Protection and Urban Planning. *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 2020, 12250 LNCS, pp. 940–949.
 2. Iacovino, C., Flora, A., Cardone, D., Vona, M.. Defining a Masonry Building Inventory for the City of Potenza. *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial*

- Intelligence and Lecture Notes in Bioinformatics), 2020, 12250 LNCS, pp. 914–927.
3. Flora, A., Iacovino, C., Cardone, D., Vona, M.. Typological Inventory of Residential Reinforced Concrete Buildings for the City of Potenza. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2020, 12250 LNCS, pp. 899–913
 4. Vona, M., Manganelli, B., Tataranna, S., Conservation, enhancement and resilience of historical and cultural heritage exposed to natural risks and social dynamics. Smart Innovation, Systems and Technologies, 101, pp. 426-433. 2019.
 5. Manganelli, B., Mastroberti, M., Vona, M., Evaluation of benefits for integrated seismic and energy retrofitting for the existing buildings. Smart Innovation, Systems and Technologies, 101, pp. 654-662. 2019.
 6. Mastroberti M., Bournas D., Vona M., Manganelli B., Palermo V., Combined Seismic Plus Energy Retrofitting for the Existing RC Buildings: Economic Feasibility, 16th ECEE, Thessaloniki, 18-21 June 2018, paper n. 12142.
 7. Mastroberti M., Bournas D., Vona M., Manganelli B., Palermo V., Combined Seismic Plus Energy Retrofitting for the Existing RC Buildings: Economic Feasibility, 16th ECEE, Thessaloniki, 18-21 June 2018, paper n. 12142.
 8. Mastroberti M., Vona M., Bournas D., Gervasio H., Economic-Temporal-Environmental Post-Earthquake Scenarios for RC-MRF existing Buildings, paper n. 12144.
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3. Ditommaso R., Mucciarelli M., Vona M., De Bonis M, Masi A., 2010, Valutazione delle resistenza a compressione del calcestruzzo mediante misure di velocità di onde acustiche, il Giornale delle prove non distruttive, Rivista AIPND, n. 01/10, marzo 2010, ISSN 1721-7075.
4. Vona M., Puglia R., Masi, A., Silvestri F., 2009, Confronto tra il danno rilevato sugli edifici di San Giuliano di Puglia a seguito del terremoto del 2002 ed il danno stimato sulla base di differenti modelli di definizione del moto sismico in superficie, Rivista Italiana di Geotecnica, Numero speciale San Giuliano di Puglia, Anno XLIII, n.3 Luglio settembre 2009. ISSN: 0557-1405.
5. Masi, A., Vona M., 2009, La stima della resistenza del calcestruzzo in-situ: impostazione delle indagini ed elaborazione dei risultati, Progettazione sismica, Anno I, No. 1/2009, IUSS Press, ISSN 1973-7432.
6. Manfredi G., Masi A., Pinho R., Verderame G., Vona M., 2007, *Valutazione di edifici esistenti in C.A.*, Collana di manuali di progettazione antisismica, IUSS Press, Pavia. ISBN: 978-88-6198-013-6.

COMPUTER SKILLS

MS-Windows e MS-DOS, ECDL Certification, Microsoft Office Specialist (MS Word Expert 2003; MS Excel Expert 2003; MS Power Point2003; MS Access 2003).
ASP & HTML, Java Server Pages e software DreamWeaver MX e Flash

MX

Certificazione ACA CS – Web Media with DreamWeaver CS3.
 Geographical information system (ArcGis, ArcView, QGis), Autocad,
 Statistical software (SPSS, XSTAT)
 SAP2000, Idarc2d, OpenSees, CDS, MIDASGEN, Seismostruct

OTHER PROFESSIONAL QUALIFICATIONS

- 2009 at present. Professional experience as consultant engineer for retrofitting problems and innovative structures.
- 1998 – 2009. Professional experience as professional engineer for retrofitting problems and innovative structures.
- 1997 – 1998. Corps of Engineers of the Italian Army, Lieutenant junior grade (Direzione Lavori Genio Militare, Bologna).

OTHER SKILLS AND ACTIVITIES

- Judo Coach (FIJLKAM - CONI - CIO)
- Pankration Coach (FIPK - CONI - CIO)
- Judo and sport expert for school Judo courses (funded by the Italian Ministry, MIUR, 2017 - 2018)
- Federal Delegate (FIJLKAM - CONI - CIO) Province of Potenza (Italy), 2004/2008 – Promoter, organizer, and teacher of training courses of base sport activities and judo for primary school (via Torraca, Potenza), 2001 - 2006
- Judo Fighter (1989-2003, 2018 - at present)
- Speleologist
- Promoter, organizer, and teacher of training courses of base sport activities and judo for primary school (via Torraca, Potenza), 2001 - 2006

LANGUAGE SKILLS

Mother tongue

Other language: English

Other language: Spanish

Italian

UNDERSTANDING	SPEAKING			WRITE
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C1	C1
UNDERSTANDING	SPEAKING			WRITE
Listening	Reading	Spoken interaction	Spoken production	

Potenza, February, 15, 2021