

PERSONAL INFORMATION**Alberto Maria Avossa**

📍 Department of Engineering
University of Campania "Luigi Vanvitelli"
Via Roma, 29, 81031, Aversa, Caserta, Italia

☎ +39.081.5010304 📠 +39.081.5037370

✉ albertomaria.avossa@unicampania.it

🌐 <http://www.ingegneria.unicampania.it/dipartimento/docenti?MATRICOLA=700339>

Research ID: [Q-2990-2016](#)

ORCID: <http://orcid.org/0000-0001-5783-4346>

ACTUAL POSITION
From 29/11/2022 to date

Associate Professor in Structural Engineering (area ICAR09), Department of Engineering, University of Campania "Luigi Vanvitelli."

EDUCATION AND TRAINING

02/2005 **Doctorate of Philosophy (Ph.D.)** in "Strengthening and retrofit of reinforced concrete and masonry structures", Second University of Naples, Italy. Thesis in Structural Engineering: "A simplified method based on pushover analysis for the assessment of the inelastic response and seismic damage of r.c. Structures".

From 15/11/2004 to 15/11/2005 **Training Course** for "Research Experts and Transfer Technology" developed within Regional Centre of Expertise on Culture, Ecology, and Economy (BENECON). Scientific Coordinator, prof. Alfonso Gambardella – Director of the Course prof. Sabina Martusciello – Faculty of Architecture, Second University of Naples.

11/2001 **Five-year Degree in Civil Engineering**, University of Salerno, Italy (Maxima cum laude).

07/1993 **High school diploma**, Liceo Scientifico Statale "L. Da Vinci", Salerno (60/60).

ACADEMIC CAREER

From 29/11/2019 to 28/11/2022 **Assistant Professor (tenure-track)** in Structural Engineering (area ICAR09), Department of Engineering, University of Campania "Luigi Vanvitelli".

From 19/02/2019 to 28/11/2019 **Adjunct Professor**
Structural Design (9 ECTS Credits) at Department of Engineering, University of Campania "Luigi Vanvitelli".

09/2018 **National Scientific Qualification** for Associate Professor in Italian Universities (ASN) in the area 08/B3 (ICAR09) "Structural Engineering" Campaign 2016 (validity for 20/09/2018 to 20/09/2024)

From 28/06/2016 to 27/06/2018 **Assistant Professor** in Structural Engineering (area ICAR09), Department of Engineering, University of Campania "Luigi Vanvitelli." Two-year extension.

From 28/06/2013 to 27/06/2016 **Assistant Professor** in Structural Engineering (area ICAR09), Department of Engineering, University of Campania "Luigi Vanvitelli." First Three years.

From 01/04/2011 to 31/03/2013 **Adjunct Professor**
Structural Design (8 ECTS Credits) at Faculty of Architecture, Second University of Naples.

From 15/05/2007 to 15/05/2009 **Post-doc Research Fellow**, Department of Civil Engineering, Second University of Naples, Italy.

From 26/06/2006 to 25/06/2007 **Research Grant**, Faculty of Architecture, Second University of Naples, Italy.

From 15/11/2004 to 15/11/2005 **Research Grant**, Faculty of Architecture, Second University of Naples, Italy.

TEACHING ACTIVITIES

ACADEMIC TEACHING

From 03/2011 to date

Full responsibility of the Course “Structural Design” (9 ECTS Credits)

Department of Engineering, University of Campania “Luigi Vanvitelli”, Italy.
 Years 2017-18, 2019-2020, 2021-2022, (as Assistant Professor), 2018-19 (as Adjunct Professor) and then as Associate Professor

Full responsibility of the Course “Structural Conception and Behaviour of Structures” (6 ECTS Credits)

Department of Engineering, University of Campania “Luigi Vanvitelli”, Italy.
 Years 2021-22, (as Assistant Professor), and then as Associate Professor

Full responsibility of the Course “Structural Design for Environment” (9 ECTS Credits)

Department of Engineering, University of Campania “Luigi Vanvitelli”, Italy.
 Years 2013-14, 2014-15, 2015-16, 2016-17 (as Assistant Professor).
 Years 2018-2019 (as Adjunct Professor).

Full responsibility of the Course “Structural Design” (8 ECTS Credits)

Faculty of Architecture, Second University of Naples, Italy.

From 2002 to 2013

Teaching Assistant, for the Courses of “Design of Structures”, “Seismic Design of Structures” and “Structural Rehabilitation” at Department of Civil Engineering, Faculty of Engineering, Second University of Naples.

From 2002 to date

Advisor or Co-Advisor

- of 75+ Bachelor and Master Theses at Department of Engineering, University of Campania “Luigi Vanvitelli” (past Second University of Naples);
- of 3 Master Theses at Faculty of Architecture, Second University of Naples.

INTERNATIONAL TEACHING

04/2017

WINERCost Training School “Advances in Wind Energy Technology 3rd Edition”

Organization of the Training School activities within the COST TU1304 action titled “Wind energy reconsideration to enhance the concept of smart cities.”

Within this training course, he held the lesson: “Structural Response of Wind Turbine Towers to Wind and Earthquakes,” 2 hours.

ACTIVITIES WITHIN Ph.D. PROGRAMS

From 03/2006 to 02/2009

Member of the Board of Tutors of the Doctoral Course in “Strengthening and Retrofit of Structures” at Second University of Naples (Coordinator Prof. Pasquale Malangone), from the XXI to XXIII Cycles.

Supervisor for the following two Ph.D. students and theses:

- 1) Paolo Famigliuolo: “Valutazione delle prestazioni sismiche di edifici in muratura”, Cycle XXI;
- 2) Sabatino Granata: “Ponti ferroviari a travata in esercizio: risposta dinamica e amplificazione critica in funzione delle caratteristiche dei nuovi treni”, Cycle XX.

From 09/2013 to date

Member of the Board of Teachers of the Ph.D. Program on “Environment, Design, Innovation” University of Campania “Luigi Vanvitelli” (Coordinator Prof. Mario Buono) for the Cycle XXIX started in the year 2013-14 and finished on May 2017.

Member of the Enlarged Board of Teachers and Board of the Tutors of the Ph.D. Program on “Environment, Design, Innovation” University of Campania “Luigi Vanvitelli” (Coordinator Prof. Mario Buono) from Cycle XXX.

Advisor of the Ph.D., dr. Carmela Maienza, defending in July 2020 the thesis: “Life cycle economic assessment of floating offshore wind farms”, Cycle XXXII.

Co-Advisor of the Ph.D., dr. Mustafa Vardaroglu, defending in December 2021 the thesis: “Dynamic Behavior of Tension Leg Platform Floating Wind Turbines”, Cycle XXXIII, of the Ph.D. candidate Andac Akbaba, Cycle XXXV, of the Ph.D. candidate Vincenzo Picozzi, Cycle XXXV, of the Ph.D. candidate Antonio Malasomma, XXXVII.

From 09/2016 al 03/2018

Co-supervisor within the Ph.D. program in “Environmental and Infrastructure Engineering”, Politecnico di Milano (Coordinator Prof. Alberto Guadagnini).

Ph.D. candidate Luigia Riefolo, defending the thesis: “Floating offshore wind turbines: design and engineering challenges,” Cycle XXX, 2014-2017.

SCIENTIFIC ACTIVITY

PARTICIPATION IN FUNDED
RESEARCH PROJETS

-
- | | |
|-------------------|---|
| From 2019 to 2021 | ReLUIS Project
Research Program "WP5 – Integrated Retrofit strategies with low impact and rapid execution" Local Coordinator A. Mandara. |
| From 2019 to 2021 | ReLUIS Project
Research Program "WP12 – Codification for civil and industrial steel and composite structures" Local Coordinator A. Mandara. |
| From 2016 to 2018 | ReLUIS Project
Research Program "PR3 – Steel and composite steel-concrete structures" Coordinators prof. R. Landolfo e prof. R. Zandonini. Local Coordinator A. Mandara. |
| From 2010 to 2016 | ReLUIS Project
Research program "Response factors for steel framed buildings", Local Coordinator A. Mandara, within the RELUIS Project, Line 2.1 "Aspects of seismic design of new constructions", Task 2.1.2 Steel and composite structures", issued by the Italian Department of Civil Protection, 2010-2013 (50000€) (extended in 2014, 2015 and 2016 for additional 50000 €). |
| From 2009 to 2010 | Campania Region - L.R. 5 - 2002
Research Program "Assessment of the structural efficiency of ancient railway bridges, existing in Campania, through combined techniques based on dynamic tests and numerical analyses", Scientific Coordinator Pasquale Malangone. Giunta Regionale della Campania - Assessorato alla Ricerca Scientifica L.R. 5 (2005-2007) (20000 €). |
| From 2003 to 2008 | PROHITECH Project
Workpackage WP1 "Overview of existing techniques", Local Coordinator A. Mandara within the Project "Earthquake Protection of Historical Buildings by Reversible Mixed TechnologiesPROHITECH" supported by EU within Sixth Framework FP6, Coord. Prof. F.M. Mazzolani, 2003-2008 (80000€). |
| From 2005 to 2007 | MURST-PRIN 2005 Project
Research Program "Protection of historical masonry structures by reversible mixed techniques" issued by the Italian Ministry of University, Local Coordinator A. Mandara (within the Project "Safeguard and rehabilitation of historical masonry buildings by reversible mixed techniques" National Coordinator F.M. Mazzolani) (2005-2007) (48571 €); |
| From 2005 to 2008 | ReLUIS Project
Research program "Design criteria of steel framed structures and methods of non-linear analysis", Local Coordinator A. Mandara, within the RELUIS Project, Line n. 5 "Development of innovative approaches for the design of steel and composite structures", issued by the Italian Department of Civil Protection, (45000€). |
| From 2002 to 2006 | Regional Centre of Expertise on Culture, Ecology, and Economy (BENECON).
Regional Funding Program 2000-2006, Development of the Regional Centre net oriented at technology transfer to the systems development and local production specialization. Research program "Assessment and rehabilitation of complex structural systems", Local Unit D1, Department of Civil Engineering, Second University of Naples, Coordinator: Prof. Pasquale Malangone. |
| From 2002 to 2003 | MURST-PRIN 2001 Project
Research Program "Innovative methodologies for the seismic retrofit of existing buildings based on the use of metal integrative elements", Local Coordinator A. Mandara, issued by the Italian Ministry of University (within the Project "Innovative steel structures for the seismic protection of buildings" National Coordinator F.M. Mazzolani) (2001-2002) (28400 €); |
| From 2006 to 2017 | Research Funding – ex MURST 60%
Participation to 9 projects of Academic Internal Funding developed at Second University of Naples: <ul style="list-style-type: none"> - 2006: Research Program "Performance-based seismic assessment of masonry structures". Coordinator P. Malangone. - 2007: Research Program "Performance-Based Seismic Design and Retrofit of Structures". Coordinator P. Malangone. - 2008: Research Program "Seismic response assessment of base-isolated structures with high damping LRB devices". Coordinator P. Malangone. - 2009: Research Program "Seismic response assessment of base-isolated structures with high damping LRB devices". Coordinator P. Malangone. - 2010: Research Program "Seismic performance assessment of masonry structures with a modified "concrete" model". Coordinator P. Malangone. |

- 2013: Research Program "Seismic retrofit of multi-span prestressed girder bridges with Friction Pendulum Devices". Coordinator P. Malangone.
- 2014: Research Program "Seismic response assessment of base-isolated structures with high damping devices". Coordinator P. Malangone.
- 2016: Research Program "Assessment of Footbridge Vibrations due to walking loads". Coordinator F. Ricciardelli.
- 2017: Research Program "Multi-Risk assessment of the dynamic response of the HAWT tower support structures under the combined effects induced by wind and seismic loads". Coordinator F. Ricciardelli.

COORDINATION OF RESEARCH ACTIVITIES

From 03/2018	Scientific Coordinator of the Research program: "Dynamic Response and Structural Efficiency of onshore and offshore Wind Turbines", Department of Engineering, University of Campania "Luigi Vanvitelli". Project funded upon a selection within the "Valere" Program for the awarding of Temporary Assistant Professors.
From 2014 to 2017	Scientific Coordinator of the Research program "Structural response assessment of base-isolated r.c. Structures with high damping devices", funded by Department of Civil Engineering, Design, Building and Environment, Second University of Naples.
From 01/2010 to 09/2010	Research grant within the Research Program: "Assessment of the structural efficiency of ancient railway bridges, existing in Campania, through combined techniques based on dynamic tests and numerical analyses", Scientific Coordinator Pasquale Malangone. Giunta Regionale della Campania - Assessorato alla Ricerca Scientifica L.R. 5. Within this topic, he developed the assessment of the structural and of the seismic performance of the existing r.c. bridges.
From 05/2009 to 11/2009	Research grant for the development and implementation of structural design software within the "E-Build" Project (measure 3.17, POR Campania 2000/2006). Research activity developed in cooperation with the research team of the University of Salerno coordinated by Prof Maurizio Angelillo. Customer: SoftLab S.r.l., Ponte, Benevento, IT.
From 05/2007 to 05/2009	Scientific Coordinator of the Research Program "Performance-Based Seismic Design and Retrofit of Structures" funded by the Second University of Naples with a two-years post-doctoral grant at the Department of Civil Engineering.
From 06/2006 to 06/2007	1-year Grant as research fellow according to the program "Research Experts and Transfer Technology" developed within Regional Centre of Expertise on Culture, Ecology, and Economy (BENECON). Scientific Coordinator, prof. Carmine Gambardella, Faculty of Architecture, Second University of Naples. The research topic was focused on the technology transfer of the main results carried out within the research program "Assessment and rehabilitation of complex structural systems", developed at Department of Civil Engineering, Second University of Naples.
From 12/2004 to 12/2005	1-year Grant as research fellow according to the program "Research Experts and Transfer Technology" developed within Regional Centre of Expertise on Culture, Ecology, and Economy (BENECON). Scientific Coordinator, prof. Alfonso Gambardella, Faculty of Architecture, Second University of Naples. The research topic was mainly focused on the structural rehabilitation of masonry structures.

ORGANIZATION OR PARTECIPATION AT CONFERENCE

From 20/07/2017	Member of the Scientific and Organizing Committee of the IN-VENTO-2018 Conference XV Conference of the Italian Association for Wind Engineering, Napoli, Italy, September 9-12.
From 12/07/2011 to 12/07/2012	Member of the Organizing Committee of the IABMAS 2012 Conference 6th International Conference on Bridge Maintenance, Safety and Management, Stresa, Lake Maggiore, Italy, July 8-12.
04/09/2017	Invited Speaker at 6th Working Group WINERCOST Meeting , Thessaloniki, Greece, September 4-5, 2017. Talk title: "Peak Response Assessment of HAWTs to Wind and Seismic Actions".
25/06/2015	Invited Speaker at Fifth Day of "Incontro-Studio sulle Murature" organized at Department of Structures for Engineering and Architecture (DiST) of the University of Naples "Federico II". Talk title: "Seismic performance assessment of masonry structures with a modified "concrete" model."

From 2002 **Participation as speaker** to the following 17 national conferences and 8 international conferences:

- 2004. 13th World Conference on Earthquake Engineering, Vancouver, Canada, August 1-6.
- 2006. WonderMasonry 2006 - Workshop on design for rehabilitation of masonry structures, Firenze, 6 aprile.
- 2006. 1st European Conference on Earthquake Engineering and Seismology, Geneva, Switzerland, September 3-8.
- 2007. XII Convegno ANIDIS "L'ingegneria Sismica in Italia", Università di Pisa, June 10-14.
- 2007. WonderMasonry2 Workshop on design for rehabilitation of masonry structures, Lacco Ameno, Ischia (NA), 11-12 ottobre.
- 2008. First International Symposium on Life-Cycle Civil Engineering, Varenna, Lake Como, Italy, June 10-14.
- 2008. 14th World Conference on Earthquake Engineering, October 12-17.
- 2008. Workshop on Handling Exceptions in Structural Engineering: Robustezza strutturale, scenari accidentali, complessità di progetto. Roma, Novembre 13-14.
- 2009. Giornate A.I.C.A.P. 2009. Pisa, April 14-16.
- 2009. XIII Convegno ANIDIS "L'ingegneria Sismica in Italia", Palazzo Re Enzo, Bologna June – July 2.
- 2010. Workshop "Le Nuove Frontiere del Calcestruzzo Strutturale" – ACI Italy Chapter, Università di Salerno, April 22-23.
- 2010. Workshop on Handling Exceptions in Structural Engineering: Structural System, Accidental Scenarios, Design Complexity. Roma, July 8-9.
- 2010. 14th European Conference on Earthquake Engineering, Ohrid, Macedonia, August 29 - September 3.
- 2011. Giornate A.I.C.A.P. 2011. Padova, May 19-21.
- 2011. IX International Forum "Le Vie dei Mercanti" – S.A.V.E. Heritage, Aversa/Capri, June 9-11.
- 2012. Third International Symposium on Life-Cycle Civil Engineering, IALCCE 2012, Vienna, October 3-6.
- 2013. "Problemi attuali e prospettive nell'ingegneria delle strutture", Convegno in onore di Franco Maceri, September 26-27.
- 2013. XXIV Giornate italiane della costruzione in acciaio – Congresso C.T.A., Torino September 30 – October 2.
- 2014. Giornate AICAP 2014, 27° Convegno Nazionale, Bergamo, May 22-24.
- 2015. XVI Convegno ANIDIS "L'Ingegneria sismica in Italia", Università de L'Aquila, Polo Ingegneria Roio, September 13-17.
- 2015. XXV Giornate italiane della costruzione in acciaio – Congresso C.T.A., Salerno, October 1-3.
- 2016. IN-VENTO 2016 – XVI Conference of the Italian Association for Wind Engineering, Terni, September 25-28.
- 2017. 7th European-African Conference on Wind Engineering EACWE 2017, Liege, July 4-7.
- 2018. "Recenti sviluppi nell'ingegneria strutturale", Convegno in onore di Antonio Grimaldi, Maratea, September 27-28.
- 2021 "Italian Concrete Days 2020", Online, 2020, April 14-16.

Participation as author to the following 7 national conferences and 2 international conferences:

- 2002. 14° Congresso C.T.E. Collegio dei Tecnici dell'Industrializzazione Edilizia, Mantova, November 7-9.
- 2004. XI Congresso Nazionale ANIDIS "L'ingegneria Sismica in Italia", Genova, January 25-29.
- 2006. 2nd International fib Congress, June 5-8, Napoli, Italy.
- 2006. 16° Congresso C.T.E. Collegio dei Tecnici dell'Industrializzazione Edilizia, Parma, November 9-11.
- 2007. Workshop "Materiali ed approcci innovativi per il Progetto in Zona Sismica e la Mitigazione della Vulnerabilità delle Strutture" Consorzio ReLuis, Università di Salerno, February 12-13.
- 2007. Giornate AICAP 2007. Salerno, October 4-6.
- 2017. Eurodyn 2017, X International Conference on Structural Dynamics. Rome, September 10-13.
- 2018. IN-VENTO 2018 – XVII Conference of the Italian Association for Wind Engineering, Napoli, September 9-12.
- 2022. IN-VENTO 2022 – XVIII Conference of the Italian Association for Wind Engineering, Milano, September 4-7.

Submitted papers to the following 3 national conferences and 12 international conferences:

- 2004. 15° Congresso C.T.E., Collegio dei Tecnici dell'Industrializzazione Edilizia, Bari, November, 7-9.

- 2007. COST Action C26 "Urban Habitat Constructions Under Catastrophic Events" Workshop, Prague, March 30-31.
- 2009. International Conference Prohitech, Rome, June 21-24.
- 2009. 6th International Conference STESSA 2009, Behaviour of steel structures in seismic areas, Philadelphia, PA, August 16-20.
- 2010. COST Action 26 Urban Habitat Constructions under Catastrophic Events, Final Conference, Naples, September 16-18.
- 2011. XIV Convegno ANIDIS, "L'Ingegneria Sismica in Italia", Bari, September 18-22.
- 2011. XXIII Congresso C.T.A., "Le giornate italiane della costruzione in acciaio", Lacco Ameno, Ischia (NA), October 9-12.
- 2012. 7th International Conference STESSA 2012, Behaviour of steel structures in seismic areas, Santiago, Chile, January 9-11.
- 2012. 15th World Conference on Earthquake Engineering, September 24-28, Lisbon, Portugal.
- 2013. International Workshop "HSS-SERF" - Application of High Strength Steel in Seismic Resistant Structures, Naples, Italy, June, 28-29.
- 2014. 7th European Conference on steel and composite structures – Napoli, September 10-12.
- 2015. 9th International Conference on "Behaviour of Steel Structures in Seismic Areas" STESSA, Shanghai, China, 1-3 July.
- 2017. 36th International Conference on Ocean, Offshore and Arctic Engineering, OMAE 2017 – Trondheim, Norway, 25-30 June.
- 2018. WinerCOST'18 - Final Conference, Catanzaro Lido, Italia, March 21-23.
- 2019. OpenSEES days Eurasia 2019, First Eurasian Conference on OpenSEES, Hong Kong, 20-21 June.

EDITORIAL AND REFEREE ACTIVITIES

- 04/2019 **Co-Editor** of the Book "Proceedings of the XV Conference of the Italian Association for Wind Engineering, IN-VENTO 2018", of the series *Lecture Notes in Civil Engineering*, Springer, vol. 27, 2019.
- From 30/01/2016 **Member of the Advisory Editorial Board**
Challenge Journal of Structural Engineering, Tulpar Academic Publishing, (ISSN: 2149-8024).
- From 2014 **Reviewer** for the following International Journals:
Bulletin of Earthquake Engineering, Springer, ISSN: 1570-761X;
Soil Dynamics and Earthquake Engineering, Elsevier, ISSN: 0267-7261;
Structure and Infrastructure Engineering, Taylor and Francis, ISSN: 1573-2479;
Structural Engineering and Mechanics, Techno Press, ISSN: 1225-4568;
Challenge Journal of Structural Mechanics, Tulpar Academic Publishing, ISSN: 2149-8024;
Shock and Vibration, Hindawi, ISSN: 1070-9622;
Case Studies in Construction Materials, Elsevier, ISSN: 2214-5095;
Advances in Civil Engineering, Hindawi, ISSN: 1687-8086;
Cogent Engineering, Taylor & Francis, ISSN: 2331-1916;
Computation, MDPI, ISSN: 2079-3197;
Earthquake Engineering and Engineering Vibration, Springer, ISSN: 1671-3664;
Annals of Solid and Structural Mechanics, Springer, ISSN: 1867-6944;
Journal of Computational Methods in Sciences and Engineering, IOS Press, ISSN: 1472-7978;
Applied Energy, Elsevier, ISSN: 0306-2619;
Engineering Structures, Elsevier, ISSN: 0141-0296.

RESEARCH TOPICS

- From 2002 to date His research activities have covered different topics classifiable in the following thematic areas:
- **Reinforced Concrete Structures:** a) Non-linear static procedures for the evaluation of the seismic response of structures; b) Performance-based retrofit of R.C. buildings with dissipative steel braces; c) Modelling and analysis of existing bridges; d) Assessment of progressive collapse capacity of framed structures using pushdown analysis.
 - **Masonry Structures:** a) Nonlinear analysis and seismic performance assessment of masonry buildings; b) Protection of historical masonry structures by reversible mixed techniques.
 - **Steel Structures:** a) Nonlinear analysis and seismic performance assessment of steel moment resisting frames (SMRFs) and buckling restrained frames (BRBs) buildings; b) Assessment of progressive collapse capacity of SMRFs using pushdown analysis.

- **Seismic Protection:** a) Seismic isolation and passive energy dissipation for civil buildings and bridges; c) Performance-based retrofit of buildings with dissipative steel braces.
- **Footbridges:** a) Design procedures for footbridges subjected to walking loads; b) Deterministic and probabilistic serviceability assessment of footbridge vibrations due to a single and multiple walker crossing.
- **Experimental wind field measurements:** wind profile identification using wind lidars.
- **Wind Turbine tower structures:** a) Assessment of the response of 5MW HAWT under combined wind and seismic-induced loads; b) Experimental modeling of the dynamic behavior of a spar buoy wind turbine.

INDEXED PUBLICATIONS

Within his research activities, started in 2002, he produced more than 90 scientific papers, published on National and International Journals and Conference Proceedings.

List of the publications indexed on SCOPUS database

Journal article

- 1) Picozzi V., Akbaba A., Avossa A.M., Ricciardelli F. (2022). Correction of historical records to improve the reliability of design wind speeds. *Engineering Structures*, Vol.265, 114473. ISSN: 01410296.
- 2) Vardaroglu M., Gao Z., Avossa A.M., Ricciardelli F. (2022). Validation of a TLP wind turbine numerical model against model-scale tests under regular and irregular waves. *Ocean Engineering*, Vol. 256, 111491. ISSN: 00298018.
- 3) Maienza C., Avossa A.M., Picozzi V., Ricciardelli F. (2022). Feasibility analysis for floating offshore wind energy. *International Journal of Life Cycle Assessment*, Vol. 27(6), pp. 796-812. ISSN: 09483349.
- 4) Picozzi V., Avossa A.M., Ricciardelli F. (2022). Probabilistic assessment of footbridge response to single walkers. *Archive of Applied Mechanics*, Vol. 92(6), pp. 1913-1927. ISSN: 09391533.
- 5) Avossa A.M., Picozzi V., Ricciardelli F. (2021). Load-carrying capacity of compressed wall-like RC columns strengthened with FRP. *Buidings*, Vol. 11(7), 285. ISSN: 20755309.
- 6) Ricciardelli F., Maienza C., Vardaroglu M., Avossa A.M. (2021). Wind energy into the future: The challenge of deep-water wind farms. *Wind and Structures*, Vol.32(4), pp. 321-340, ISSN: 12266116.
- 7) Ferraioli M., Lavino A., Abruzzese D., Avossa A.M. (2020). Seismic Assessment, Repair and Strengthening of a Medieval Masonry Tower in Southern Italy. *International Journal of Civil Engineering*, Vol. 18, pp. 967-994. ISSN: 2383-3874.
- 8) Maienza C., Avossa A.M., Ricciardelli F., Coiro D., Troise G., Georgakis C.T. (2020). A life cycle cost model for floating offshore wind farms. *Applied Energy*, Vol. 266, 114716. ISSN: 0306-2619.
- 9) Rizzo F., Sepe V., Ricciardelli F., Avossa A.M. (2020). Wind pressures on a large canopy roof. *Wind and Structures*, Vol. 30, pp. 299-316, ISSN: 1226-6116.
- 10) Ricciardelli F., Pirozzi S., Mandara A., Avossa A.M. (2019). Accuracy of mean wind climate predicted from historical data through wind LIDAR measurements. *Engineering Strcutres*, Vol. 201, 109771, ISSN: 0141-0296.
- 11) Tomasicchio G.R., D'Alessandro F., Avossa A.M., Riefolo L., Musci E., Ricciardelli F., Vicinanza, D. (2018). Experimental modelling of the dynamic behaviour of a spar buoy wind turbine. *Renewable Energy*, Elsevier, Vol. 127, pp. 412-432, ISSN: 0960-1481.
- 12) Avossa A.M., Di Giacinto D., Malangone P., Rizzo F. (2018). Seismic Retrofit of a Multispan Prestressed Concrete Girder Bridge with Friction Pendulum Devices. *Shock and Vibration*, Hindawi, Vol. 2018, Article ID 5679480, 22 pages, ISSN: 1070-9622.
- 13) Demartino C., Avossa A.M., Ricciardelli F. (2018). Deterministic and Probabilistic Serviceability Assessment of Footbridge Vibrations due to a Single Walker Crossing. *Shock and Vibration*, Hindawi, Vol. 2018, Article ID 1917629, 26 pages, ISSN: 1070-9622.
- 14) Avossa A.M., Demartino C., Ricciardelli F. (2017). Assessment of the Peak Response of 5MW HAWT Under Combined Wind and Seismic Induced Loads. *The Open Construction & Building Technology Journal*, Bentham Open, Vol. 11, pp. 441-457, ISSN: 1874-8368.
- 15) Avossa A.M., Demartino C., Contestabile P., Ricciardelli F., Vicinanza D. (2017). Some results on the vulnerability assessment of HAWTs subjected to wind and seismic actions. *Sustainability*, MDPI, vol. 9(9), 1525, ISSN: 2071-1050.

- 16) Avossa A.M., Pianese G. (2017). Damping effects on the seismic response of base-isolated structures with LRB devices. *Ingegneria Sismica (International Journal of Earthquake Engineering)*, Pátron Editore, vol. 34(2), p. 3-30, ISSN 03931420.
- 17) Avossa A.M., Demartino C., Ricciardelli F. (2017). Design procedures for footbridges subjected to walking loads: Comparison and remarks. *Baltic Journal of Road and Bridge Engineering*, Vilnius Gediminas Technical University Journals, vol. 12(2), p. 94-105, ISSN: 1822-427X E-ISSN: 1822-4288.
- 18) Avossa A.M., Malangone P. (2015). Seismic performance assessment of masonry structures with a modified "concrete" model. *Bulletin of Earthquake Engineering*, Springer, vol. 13(9), p. 2693-2718, ISSN:1570761X.
- 19) Ferraioli M., Avossa A.M., Lavino A., Mandara A. (2014). Accuracy of Advanced Methods for Nonlinear Static Analysis of Steel Moment-Resisting Frames. *The Open Construction & Building Technology Journal*, Bentham Open, vol. 8, p. 310-323, ISSN: 1874-8368.
- 20) Ferraioli M., Avossa A.M., Mandara A. (2014). Assessment of Progressive Collapse Capacity of Earthquake-Resistant Steel Moment Frames Using Pushdown Analysis. *The Open Construction & Building Technology Journal*, Bentham Open, vol. 8, p. 324-336, ISSN: 1874-8368.
- 21) Avossa A.M., Malangone P. (2012). Seismic retrofit of a prestressed concrete road bridge. *Ingegneria Sismica (International Journal of Earthquake Engineering)*, Pátron Editore, vol. 29(4), p. 5-15, ISSN 03931420.

Book Chapters

- 1) Maienza, C., Avossa, A.M., Ricciardelli, F., Scherillo F., Georgakis, C.T. (2019). A Comparative Analysis of Construction Costs of Onshore and Shallow- and Deep-Water Offshore Wind Farms. In *Lecture Notes in Civil Engineering*, Vol. 27, 2019, pp. 440-453. ISSN: 2366-2557.
- 2) Riefolo, L., Vardaroglu, M., Avossa, A.M. (2019). Experimental Tests on the Wave-Induced Response of a Tension Leg Platform Supporting a 5 MW Wind Turbine. In *Lecture Notes in Civil Engineering*, Vol. 27, 2019, pp. 599-612. ISSN: 2366-2557.
- 3) Sepe, V., Rizzo, F., Ricciardelli, F., Avossa, A.M. (2019). Characterization of Mean Wind Profiles and Surface Roughness Assessment from Wind LIDAR Measurements. In *Lecture Notes in Civil Engineering*, Vol. 27, 2019, pp. 689-702. ISSN: 2366-2557

Proceedings

- 1) Maienza C., Avossa A.M., Ricciardelli F. Coiro D., Georgakis C.T. (2020). Sensitivity analysis of cost parameters for floating offshore wind farms: An application to Italian waters. In *Proceedings of Conference 17th DeepWind 2020, Trondheim, 15 January. Journal of Physics: Conference Series*, Vol. 1669(1), 012019. ISSN: 17426588.
- 2) Vardaroglu M., Gao Z., Avossa A.M., Ricciardelli F. (2020). Numerical Modelling of the MIT/NREL TLP Wind Turbine and Comparison with the Experimental Results. In *Proceedings of Conference 17th DeepWind 2020, Trondheim, 15 January. Journal of Physics: Conference Series*, Vol. 1669(1), 012015. ISSN: 17426588.
- 3) Avossa A.M., Demartino C., Ricciardelli F. (2017). Probability distribution of footbridge peak acceleration to single and multiple walker crossing. In: *EURODYN 2017: Proceedings of the 10th International Conference on Structural Dynamics*, Rome, Italy, 10-13 September, Procedia Engineering, Vol. 199, 2017, pp. 2766-2771,
- 4) Avossa A.M., Demartino C., Ricciardelli F. (2017). Probability distribution of footbridge peak acceleration to single and multiple walker crossing. In: *EURODYN 2017: Proceedings of the 10th International Conference on Structural Dynamics*, Rome, Italy, 10-13 September, Procedia Engineering, Vol. 199, 2017, pp. 2766-2771.
- 5) Avossa A.M., Demartino C., Ricciardelli F. (2017). Peak response of HAWTs to wind and seismic actions. In: *EACWE 2017: Proceedings of the 7th European-African Conference on Wind Engineering*. Liège, Belgium, 4-7 July.
- 6) Demartino C., Avossa A.M., Ricciardelli F., Calidonna C.R. (2017). Wind profile identification using wind lidars: an application to the area of Lamezia Terme. In: *EACWE 2017: Proceedings of the 7th European-African Conference on Wind Engineering*. Liège, Belgium, 4-7 July.
- 7) Tomasicchio G.R., Avossa A.M., Riefolo L., Ricciardelli F., Musci E., D'Alessandro F., Vicinanza D. (2017) Dynamic modelling of a spar buoy wind turbine. In: *Proceedings of the International Conference on Offshore Mechanics and Arctic Engineering – OMAE*. Trondheim, Norway, 25-30 June.
- 8) Ferraioli M, Avossa A.M. (2012). Progressive collapse of seismic resistant multistory frame buildings. In: *Proceedings of the 3rd International Symposium on Life-Cycle Civil Engineering, IALCCE 2012*, Vienna; Austria, 3-6 October, Pages 2048-2055. ISBN: 9780415621267.

- 9) Avossa A.M., Di Camillo R., Malangone P. (2012). Performance-based retrofit of a prestressed concrete road bridge in seismic area. In: Proceedings of the 3rd International Symposium on Life-Cycle Civil Engineering, IALCCE 2012, Vienna; Austria, 3-6 October, Pages 1905-1913. ISBN: 9780415621267.
- 10) Ferraioli M., Avossa A.M., Formato F. (2010). Base isolation seismic retrofit of a hospital building in Italy: design and construction. Proceedings of Final Conference on COST Action C26: Urban Habitat Constructions under Catastrophic Events, Naples 16-18 September, p. 835-840. CRC press, Taylor & Francis Group, London UK. ISBN: 978-0-415-65685-1.
- 11) Avossa A.M., Famigliuolo P., Malangone P. (2008). Structural safety evaluation of a r.c. arch bridge. In: Proceedings of the 1st International Symposium on Life-Cycle Civil Engineering, IALCCE'08, Varenna, Lake Como, Italy, 11-14 June, pp. 697-702. ISBN: 9780415468572.

CONSULTANT ACTIVITY

From 10/2011 to 06/2012	Consultant expert, on behalf of the Campania Region, in control of submitted structural calculations.
From 12/2010 to 01/2011	Consultant activity in seismic vulnerability assessment of a school building in Tufino, Napoli, IT.
From 11/2009 to 10/2010	Consultant activity in seismic vulnerability and structural design of retrofit interventions on a reinforced concrete building, Fisciano, Salerno, IT.
From 02/2009 to 05/2010	Consultant activity in seismic design retrofit using base-isolation of the hospital buildings in Avellino, IT.
From 10/2008 to 10/2010	Consultant activity in structural modeling for the assessment of seismic response of a base-isolated hospital building with LRB devices, Potenza, IT.
From 03/2008 to 05/2008	Consultant activity in seismic vulnerability assessment of an army masonry structure, Roma, IT.
From 06/2006 to 10/2006	Consulenza activity in the structural design of pre-stressed concrete beams for highway A3 Napoli-Salerno, Campania, IT.
From 11/2005 to 01/2006	Consultant activity in structural design and seismic retrofit based on traditional and innovative techniques of industrial archeology buildings in Bagnoli, Napoli, IT.