

Curriculum Vitae et Studiorum

Prof.G.C. Marano

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1. General information

1.1. Personal data

Name: Giuseppe Carlo MARANO
Place & date of birth: **Bari (Italy) 12/03/1967**
Home address: Via Ottavio Serena, 4 – 70126 Bari (Italy)
Tel: +39 (0)80 5538404
Mob: +86 130 6738 5433
+39 320 4316171
E-mail: giuseppe.marano@polito.it
marano@fzu.edu.cn
g.c.marano@gmail.com
Skype: beppe.marano

1.2. Formation

1985 High school degree with honor (maximum ranking, 60/60) at Scientific High school *Di Cagno Abrescia* (Bari)
1986/1987 Italian Navy Accademy, cadet (officer student) as Navy officer;
1993 Master Degree with honor (110/110 cum laude) five years course in civil engineering, (Politecnico di Bari);
2000 Doctoral degree in Structural Engineering (X2nd cycle), University of Florence (Italy);
2000 Post-doctorate fellowship at Politecnico di Bari (Department ICAR);
2001/2002 Research fellow, Technical University of Bari, research project “Prospects and extension of load path and STM model: from the reinforced concrete structural design to the masonry diagnosis and structural evaluation”;

1.3. Accademic positions

2002/2012 Assistant Professor in Structural Design, 2nd Faculty of Engineering, Politecnico di Bari
2002 Visiting assistant professor at the Cambridge University (UK) – Department of Engineering, supported by an Italian National Research Council (CNR) grant;
2012/2018 Associate professor in Structural Design, Politecnico di Bari (part time position from 2016)
2012 Visiting adjunct Professor, Loughborough University (UK)
2013 Full Professor Italian National habitation (final evaluation 5/5 panel positive evaluations) at the first call ASN (Abilitazione scientifica Nazionale);
2014 Visiting Professor, Hunan University, Changsha, Hunan Province (China)
2015 Research fellow at the SIBERC (Sustainable and Innovative Bridge Engineering Research Center), Fuzhou University, Fuzhou, Fujian Province, China
2016/today Full Professor in Structural Design, Faculty of Civil Engineering, Fuzhou University, Fuzhou, Fujian Province, China

2018/today Full Professor in Structural Design, Politecnico di Torino

2019/today **Vice director**, Department of Structural, Building and Geotechnical Engineering (DISEG), Politecnico di Torino

1.4. International position's selections

- 2013 University Collage Cork (IRL) (Department of Engineering) - Shortlisted as "Chair in Civil & Environmental Engineering";
- 2015 Surrey University (UK) - Shortlisted as "Head of Department of Civil Engineering";
- 2016 University di Southampton (UK) - Shortlisted as "Full Professor" in Structural Engineering;
- 2016 Astana University (Kazakistan) - Shortlisted and selected as Full professor in Structural Design
- 2018

1.5. Scholarships and grants

- 1999 Scholarship (Socrates/Erasmus program) for the free participation to the intensive course "Probabilistic Approach to Structural Design and Application to Eurocodes", University of Firenze (IT);
- 2000 One year scholarship for the "Signal Analysis specialization school", Università degli Studi di Bari (funded by Telespazio SpA);
- 2002 Scholarship to participate to the NATO ARW congress "Stochastic systems: from randomness to Complexity", Erice (Italia);
- 2002 CNR (Italian National Research Council) Scholarship for 6 months of research at the Cambridge University (UK);
- 2000 Post-Doc Scholarship Design Institute (Currently DICAR) of Architecture Faculty - Politecnico di Bari;
- 2003 Grant (in the budget of the province of Taranto) supported by 2nd Faculty of Engineering (Taranto) of Politecnico di Bari to develop research activities with the Cambridge University (UK) 10.000,00€;
- 2007 Grant (in the budget of the province of Taranto) supported by 2nd Faculty of Engineering (Taranto) of Politecnico di Bari to co-founding a research fellow;
- 2007 Grant (in the budget of the province of Taranto) supported by 2nd Faculty of Engineering (Taranto) of Politecnico di Bari to co-founding participation to International Conference ECOMMASS08;
- 2010 Grant supported by of Politecnico di Bari to co-founding a research fellow;
- 2016 Starting Grant for research activities at t Fuzhou University (1.500.000,00 Yuan) founded by Fuzhou University (Fuzhou, China).

1.6. Main institutional roles

- 2009/2011 Member of the board of directors - Politecnico di Bari;
- 2009/2012 Member of the ILO2 (Industrial Liaison Office) committee - Politecnico di Bari;
- 2012/today Scientific responsible of seismic projects technical evaluation – Province of Taranto as Politecnico di Bari delegate (by specific agreement);
- 2014/2015 President of "Structural and geotechnical committee" – Province of Bari Association of Engineers
- 2014/today Member of Management Committee as Italian delegate in the international project COST Action TU1406 - Quality specifications for roadway bridges, standardization at a European level (BridgeSpec.);

- 2015/today Member of the “Scientific Academy of Apulia”;
2015/today Member of the scientific and teaching committee in the 2nd Level Master EuroProject “Advanced Structural design according Eurocodes”, Università la Sapienza, Roma;
2016/today member (Foreign Expert) del SAFEA – State Administration of Foreign Experts Affair of the P.R. China.
2019/today Deputy Director, Department of Structural, Geotechnical and Building Engineering, Politecnico di Torino

1.7. Selected working experiences

- 1995/1996 Navy Officer (lieutenant) in the Italian Navy (civil service);
1996/1997 Engineering (concrete technology) at the Calcestruzzi S.P.A. (today Italcementi Group – Italian leader in concrete production) as expert in concrete production and technology
1999/2002 Consultant on structural analysis and design for ECOFORMA srlc - European projects (for urban suitable requalification) “HOME” and “Cradle to Cradle”
1999/2001 Structural consultant for new building design and seismic retrofitting of existing ones (17) for social housing in Fondo Gesù district, Municipality of Crotone;
2006/today Consultant for structural analysis and design of prefabricated Steel/concrete elements - Metal.Ri snc (Bari);
2011 Designated by the Province of Bari for the assessment of seismic vulnerability of two bridges;
2015 Structural consultant of ARCA Capitanata (Social Housing Office in Province of Foggia) for two base isolated building (45 apartments);
2016 Structural inspector for final testing – seismic retrofitting of Foggia main hospital (Ospedali riuniti di Foggia)
2016 Structural designer for the evaluation of seismic vulnerability assessment of a RAI (Italian Broadcast Corporation)
2017 Structural designer, work manager and safety coordination (in progress) for seismic retrofitting of Bari Airport passenger terminal

2. Scientific activity

2.1. Publications complete list

2.1.1. Scientific production synthesis

<i>Indexed journals (Scopus and/or WOS)</i>	<i>148</i>
<i>H index (Scopus)</i>	<i>24</i>
<i>Total citations (Scopus)</i>	<i>1689</i>

The scientific production of the candidate consists of 270 publications so subdivided:

Publications in international journals	108
Publications on national magazines	16
Book of national books	4
Chapters in International Books	12
Chapters in National Books	8
Publications at international congresses	82
Publications at national congresses	36
Academic internal notes	3
Indexed publications on Scopus	122
Indexed publications on Web of Science	64

Almost all of the publications at international and national congresses have been personally presented by the candidate also as invited speeches (as below specified).

2.1.2. International peer review journals

1. He, L.; Reynders, E.; García-Palacios, J.H.; Carlo Marano, G.; Briseghella, B.; De Roeck, G. Wireless-Based Identification and Model Updating of a Skewed Highway Bridge for Structural Health Monitoring. *Appl. Sci.* 2020, *10*, 2347.
2. Trentadue, F., Marano, G. C., Vanzi, I., & Briseghella, B. (2018). Optimal arches shape for single-point-supported deck bridges. *Acta Mechanica*, 1-7.
3. Quaranta, G., Trentadue, F., Maruccio, C., Marano, G.C., Analysis of piezoelectric energy harvester under modulated and filtered white Gaussian noise, (2018) *Mechanical Systems and Signal Processing*, 104, pp. 134-144. DOI: 10.1016/j.ymssp.2017.10.031
4. Quaranta, G., Trentadue, F., Marano, G.C., Closed-form approximation of the axial force-bending moment interaction diagram for hollow circular reinforced concrete cross-sections, (2017) *Engineering Structures*, 153, pp. 516-524. DOI: 10.1016/j.engstruct.2017.10.042
5. Greco, R., Marano, G.C., Fiore, A., Damage-Based Inelastic Seismic Spectra, (2017) *International Journal of Structural Stability and Dynamics*, 17 (10), art. no. 1750115, DOI: 10.1142/S0219455417501152
6. Marano, G.C., Pellicciari, M., Cuoghi, T., Briseghella, B., Lavorato, D., Tarantino, A.M., Degrading bouc-wen model parameters identification under cyclic load, (2017) *International Journal of Geotechnical Earthquake Engineering*, 8 (2), pp. 60-81. DOI: 10.4018/IJGEE.2017070104
7. Greco, R., Monti, G., Marano, G.C., (2017), Influence of Post-Yield Stiffness on Inelastic Seismic Response: A Stochastic Analysis, *International Journal of Structural Stability and Dynamics*, 17(02), 1750028, DOI: 10.1142/S0219455417500286.

8. D De Tommasi, GC Marano, G Puglisi, F Trentadue, (2017), Morphological optimization of tensegrity-type metamaterials, *Composites Part B: Engineering* 115, 182-187.
9. A Fiore, GC Marano (2017), Serviceability Performance Analysis of Concrete Box Girder Bridges Under Traffic-Induced Vibrations by Structural Health Monitoring: A Case Study”, *International Journal of Civil Engineering*. doi:10.1007/s40999-017-0161-3.
10. Greco, R., Marano, G.C., Fiore, A., (2016), Performance–cost optimization of tuned mass damper under low-moderate seismic actions, *Structural Design of Tall and Special Buildings*, 25 (18), pp. 1103-1122, DOI: 10.1002/tal.1300.
11. Trentadue F., Quaranta, G., Marano, G.C., (2016), Closed-form approximations of interaction diagrams for assessment and design of reinforced concrete columns and concrete-filled steel tubes with circular cross-section, *Engineering Structures*, 127, pp. 594-601, DOI: 10.1016/j.engstruct.2016.08.059.
12. Fiore, A., Marano, G.C., Natale, M.G., (2016), Theoretical prediction of the dynamic behavior of rolling-ball rubber-layer isolation systems, *Structural Control and Health Monitoring*, 23 (9), pp. 1150-1167, DOI: 10.1002/stc.1830.
13. G. Devillanova, GC Marano, (2016), A free fractional viscous oscillator as a forced standard damped vibration, *Fractional Calculus and Applied Analysis*, Volume: 19 Issue: 2 Pages: 319-356, March 2016, DOI: 10.1515/fca-2016-0018.
14. Greco, R., Marano, G.C. Multi-objective optimization of a dissipative connection for seismic protection of wall-frame structures, (2016), *Soil Dynamics and Earthquake Engineering*, 87, pp. 151-163, DOI: 10.1016/j.soildyn.2016.01.020.
15. Greco, R., Marano, G.C., Optimum design of viscous dissipative links in wall-frame systems, (2016) *Structural Design of Tall and Special Buildings*, 25 (9), pp. 412-428. DOI: 10.1002/tal.1265.
16. Fiore, A., Marano, G.C., Greco, R., Mastromarino, E., (2016), Structural optimization of hollow-section steel trusses by differential evolution algorithm, *International Journal of Steel Structures*, 16 (2), pp. 411-423, DOI: 10.1007/s13296-016-6013-1.
17. De Tommasi, D., Ferri, D., Marano, G.C., Puglisi, G., (2016), Material parameters identification and experimental validation of damage models for rubberlike materials, *European Polymer Journal*, 78, pp. 302-313. DOI:10.1016/j.eurpolymj.2016.03.036.
18. Greco, R., Marano, G.C., Robust optimization of base isolation devices under uncertain parameters, (2016) *JVC/Journal of Vibration and Control*, 22 (3), pp. 853-868. , DOI: 10.1177/1077546314532670.
19. Fiore, A., Quaranta, G., Marano, G.C., Monti, G., Evolutionary Polynomial Regression-Based Statistical Determination of the Shear Capacity Equation for Reinforced Concrete Beams without Stirrups, (2016), *Journal of Computing in Civil Engineering*, 30 (1), art. no. 04014111, . DOI: 10.1061/(ASCE)CP.1943-5487.0000450.
20. Scodeggio, A., Quaranta, G., Marano, G.C., Monti, G., Fleischman, R.B., (2016), Optimization of force-limiting seismic devices connecting structural subsystems, *Computers and Structures*, 162, pp. 16-27, DOI: 10.1016/j.compstruc.2015.09.008.
21. Fuina, S., Marano, G.C., Puglisi, G., De Tommasi, D., Scarascia-Mugnozza, G., (2016), Thermo-mechanical response of rigid plastic laminates for greenhouse covering, *Journal of Agricultural Engineering*, 47 (3), art. no. 549, pp. 157-163. DOI: 10.4081/jae.2016.549.
22. Acciani, G., Di Modugno, F., Abrescia, A., Marano, G.C., (2016), Integration algorithm for covariance nonstationary dynamic analysis using equivalent stochastic linearization, *Mathematics and Computers in Simulation*, 125, pp. 70-82.
23. M Morga, GC Marano, (2015), Chloride penetration in circular concrete columns, *International Journal of Concrete Structures and Materials* 9 (2), 173-183.

24. D De Tommasi, GC Marano, G Puglisi, F Trentadue (2015), Optimal complexity and fractal limits of self-similar tensegrities, *Proc. R. Soc. A* 471 (2184), 20150250.
25. D. Colapietro, M. Pinto, A. Fiore, F. Fatiguso, G.C. Marano, (2015), Quali-quantitative evaluation for the definition of antiseismic recovery interventions in historical buildings, *American Journal of Engineering Research (AJER)* - e-ISSN: 2320-0847 p-ISSN : 2320-0936- Volume-4, Issue-9, pp-108-119.
26. Sgobba, S., Borsa, M., Molfetta, M., Marano, G.C., (2015), Mechanical performance and medium-term degradation of rubberised concrete, *Construction and Building Materials*, 98, pp. 820-831.
27. Vanzi, I., Marano, G.C., Monti, G., Nuti, C., (2015), A synthetic formulation for the Italian seismic hazard and code implications for the seismic risk, *Soil Dynamics and Earthquake Engineering*, 77, pp. 111-122.
28. Greco, R., Marano, G.C., (2015), Inelastic seismic spectra including a damage criterion: A stochastic approach, *Soil Dynamics and Earthquake Engineering*, 70, pp. 75-79.
29. Greco, R., Marano, G.C., (2015), Strength deterioration of reinforced concrete column sections subject to pitting, *Computers and Concrete*, 15 (4), pp. 643-671.
30. Greco, R., Marano, G.C., Identification of parameters of Maxwell and Kelvin-Voigt generalized models for fluid viscous dampers, (2015), *JVC/Journal of Vibration and Control*, 21 (2), pp. 260-274.
31. Marano, G.C., Acciani, G., Fiore, A., Abrescia, A., Integration algorithm for covariance Nonstationary dynamic analysis of SDOF systems using equivalent stochastic linearization, (2015), *International Journal of Structural Stability and Dynamics*, 15 (2), art. no. 1450044.
32. Greco, R., Lucchini, A., Marano, G.C., Robust design of tuned mass dampers installed on multi-degree-of-freedom structures subjected to seismic action, (2015), *Engineering Optimization*, 47 (8), pp. 1009-1030.
33. Netti, A., Fiore, A., Monaco, P., Marano, G.C., Investigation of traffic-induced vibrations on a historic swing bridge in Italy, (2015), *International Journal of Mechanics*, 9, pp. 53-60.
34. G Quaranta, GC Marano, R Greco, G Monti, (2014), Parametric identification of seismic isolators using differential evolution and particle swarm optimization, *Applied Soft Computing* 22, 458-464.
35. A Fiore, GC Marano, D Laucelli, P Monaco, (2014), Evolutionary modeling to evaluate the shear behavior of circular reinforced concrete columns, *Advances in Civil Engineering*, Article ID 684256, 14 pages, doi.org/10.1155/2014/684256.
36. G Quaranta, GC Marano, F Trentadue, G Monti, (2014), Numerical study on the optimal sensor placement for historic swing bridge dynamic monitoring, *Structure and Infrastructure Engineering* 10 (1), 57-68.
37. R Greco, J Avakian, G Marano, (2014), A comparative study on parameter identification of fluid viscous dampers with different models, *Archive of Applied Mechanics* 84 (8), pp. 1117-1134.
38. Francesco Trentadue, Erika Mastromarino, Giuseppe Quaranta, Floriana Petrone, Giorgio Monti, Giuseppe Carlo Marano, (2014), Bending Stiffness of Truss-Reinforced Steel-Concrete Composite Beams, *Open Journal of Civil Engineering* 4 (03), 285-300.
39. Greco, R., Fiore, A., Marano, G.C., The role of modulation function in nonstationary stochastic earthquake model, (2014), *Journal of Earthquake and Tsunami*, 8 (5), art. no. 1450015
40. Lucchini, A., Greco, R., Marano, G.C., Monti, G., Robust design of tuned mass damper systems for seismic protection of multistory buildings, (2014), *Journal of Structural Engineering (United States)*, 140 (8), art. no. A4014009

41. Trentadue, F., Quaranta, G., Greco, R., Marano, G.C., New analytical model for the hoop contribution to the shear capacity of circular reinforced concrete columns, (2014), *Computers and Concrete*, 14 (1), pp. 59-71.
42. Marano, G.C., Trentadue, F., Petrone, F., Optimal arch shape solution under static vertical loads, (2014), *Acta Mechanica*, 225 (3), pp. 679-686.
43. Fiore, A., Marano, G.C., Marti, C., Molfetta, M., (2014), On the fresh/hardened properties of cement composites incorporating rubber particles from recycled tires, *Advances in Civil Engineering*, 2014, art. no. 876158.
44. Colapietro, D., Netti, A., Fiore, A., Fatiguso, F., Marano, G.C., On the definition of seismic recovery interventions in r.c. buildings by non-linear static and incremental dynamic analyses, (2014), *International Journal of Mechanics*, 8 (1), pp. 216-222.
45. Morga M., Marano G.C., "Optimization criteria of TMD to reduce vibrations generated by the wind in a slender structure", 2014, *Journal of Vibration and Control*, Vol. 20(16), 2404-2416.
46. G. Acciani, A. Abrescia, G.C. Marano, (2014) , "Numerical covariance analysis of MDoF hysteretic non- linear mechanical system subjected to modulated stochastic inputs", *International Journal of Engineering and Innovative Technology (IJEIT)*, Volume 4, Issue 2, 218-233.
47. Acciani G., Abrescia A, Di Modugno F. and Marano G.C., (2014), Numerical algorithm for non-stationary covariance analysis of nonlinear mechanical system using equivalent linearization, *Advances in Computer Science and Engineering*, Vol. 13 N.1, pag 27-49.
48. R Greco, GC Marano, (2013), Optimum design of Tuned Mass Dampers by displacement and energy perspectives, *Soil dynamics and earthquake engineering* 49, 243-253.
49. Quaranta, G., Fiore, A., Marano, G.C., (2013), "Optimum design of prestressed concrete beams using constrained differential evolution algorithm", *Structural and Multidisciplinary Optimization*, 49(3), 441-453.
50. R Greco, GC Marano, (2013), Site based stochastic seismic spectra, *Soil Dynamics and Earthquake Engineering* 55, 288-295.
51. Fiore, A., Marano, G., Monaco, P , (2013), Earthquake-induced lateral-torsional pounding between two equal height multi-storey buildings under multiple bi-directional ground motions. *Advances in Structural Engineering*, 16 (5), pp. 845-866.
52. Fiore, A., Marano, G.C., Monaco, P, Morbi, A., Preliminary experimental study on the effects of surface-applied photocatalytic products on the durability of reinforced concrete, (2013), *Construction and Building Materials*, 48, Pages 137-143
53. G. C. Marano, Morga M., Sgobba S., (2013), "Parameters Identification of Stochastic Nonstationary Process Used in Earthquake Modelling", *International Journal of Geosciences* , pp. 290-301.
54. Monti, G , Quaranta, G , Marano, G.C "Sensor Network Design for Monitoring a Historic Swing Bridge (2012) *Key Engineering Materials*, 517, pp. 717-723.
55. Alessandra Fiore, Luigi Berardi, Giuseppe Carlo Marano, " Predicting torsional strength of RC beams by using Evolutionary Polynomial Regression " *Advances in Engineering Software*, Volume 47, Issue 1, May 2012, Pages 178-187.
56. S. Chakraborty, R. Debbarmaa and G.C. Marano, "Performance of tuned liquid column dampers considering maximum liquid motion in seismic vibration control of structures", *Journal of Sound and Vibration*, 2012, Vol. 331, pag 1519, 1531.
57. R. Greco, G.C. Marano (2011), "Optimal constrained design of steel structures by differential evolutionary algorithms", *International journal of optimization in civil engineering*. *Int. J. Optim. Civil Eng.*, 2011; 3:449-474.

58. G. Quaranta, F. Petrone, G.C. Marano, F. Trentadue and G. Monti, (2011), "Structural design of composite concrete-steel beams with spatial truss reinforcement elements", *Asian journal of civil engineering (building and housing)* VOL. 12, N. 2, Pag. 155-178.
59. G. C. Marano, G. Quaranta, G. Monti, , 2011 "Modified Genetic Algorithm for the Dynamic Identification of Structural Systems Using Incomplete Measurements", *Computer aided Civil and Infrastructure Engineering*, 26(2), 92-110.
60. S. Sgobba, P.J. Stafford, G.C. Marano and C. Guaragnella; (2011), "An evolutionary stochastic ground-motion model defined by a seismological scenario and local site conditions", *Soil Dynamics and Earthquake Engineering* Volume 31, Issue 11, Pages 1465-1479, [Soi:10.1016/j.soildyn.2011.05.014](https://doi.org/10.1016/j.soildyn.2011.05.014).
61. GC Marano, R Greco, (2011), Optimization criteria for tuned mass dampers for structural vibration control under stochastic excitation, *Journal of vibration and control*, 17 (5), 679-688.
62. F. Trentadue, G. Quaranta, G. C. Marano, G. Monti, (2011), "Simplified lateral-torsional buckling analysis in special truss-reinforced composite steel-concrete beams", *ASCE Journal of Structural Engineering* 137 (12), pp. 1419-1427, DOI 10.1061/(ASCE)ST.1943-541X.0000390.
63. GC Marano, R Greco, E Morrone, (2011), Analytical evaluation of essential facilities fragility curves by using a stochastic approach, *Engineering Structures* 33 (1), 191-201.
64. G. C. Marano, G. Monti, G. Quaranta, (2010), "Comparison of different optimum criteria for sensor placement in lattice towers", *The Structural Design of Tall and Special Buildings*, 20 (8), pp. 1048-1056, DOI: 10.1002/tal.605.
65. GC Marano, E Morrone, S Sgobba, S Chakraborty, (2010), A fuzzy random approach of stochastic seismic response spectrum analysis, *Engineering Structures*, 32 (12), 3879-3887.
66. G. Quaranta, G. Monti, G. C. Marano, (2010), "Parameters identification of Van der Pol – Duffing oscillators via particle swarm optimization and differential evolution", *Mechanical Systems and Signal Processing*, 24 (7), pp. 2076-2095, DOI 10.1016/j.ymssp.2010.04.006.
67. G. Monti, G. Quaranta, G. C. Marano, (2010), "Genetic-Algorithm-based Strategies for dynamic identification of Nonlinear Systems with Noise corrupted Response", *ASCE Journal of Computing in Civil Engineering*, 24(2), 173-187.
68. Marano G.C., Quaranta G., Sgobba, S., (2010), "Fuzzy-Entropy based Robust Optimization Criteria for Tuned Mass Dampers", *Earthquake Engineering and Engineering Vibration*, 9: 1, 285-294.
69. GC Marano, R Greco, B Chiaia, (2010), A comparison between different optimization criteria for tuned mass dampers design, *Journal of Sound and Vibration* 329 (23), 4880-4890.
70. Sgobba, S., Marano G.C., (2010), "Optimum design of linear Tuned Massa Dampers for structures with nonlinear behavior", *Mechanical Systems and Signal Processing*. 24 (6), pp. 1739-1755 (2010), doi:10.1016/2010.01.009.
71. GC Marano, G Quaranta, (2010), A new possibilistic reliability index definition, *Acta mechanica* 210 (3-4), 291-303.
72. Marano G.C., Greco R., Sgobba S., (2010), A comparison between different robust optimum design approaches: application to tuned mass dampers. *Probabilistic Engineering Mechanics*, vol. 25, pp. 108-118.
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2.1.9. Internal academic records

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270. G.C. Marano, "Forma estetica e struttura nella progettazione sismica", Internal record Dipartimento di Scienze dell'Ingegneria Civile e dell'Architettura, Bari, Febbraio 2001.

2.2. Research Projects

2.2.1. Scientific Responsibility for International and National Research Projects, Admitted to Financing on the basis of competitive calls for peer review

- 2009/2011 Scientific coordinator (designer) of the Industrial and Experimental research project "New construction system (MTR) by mixed steel and concrete cross-sectional elements for structural engineering", founded by POR Puglia 2007-2013 line 1.1 – action 1.1.2 - "Supports for investments in research for small and medium-sized enterprises", initial budget 1.059.930,00€ (650.000,00€ final budget);
- 2010/2011 Scientific leader of the research project "Dynamic monitoring of strategic structures using soft-computing strategies", founded by " Foundation of the savings bank of Puglia ", € 40.000,00€;
- 2015/2017 Scientific committee member – project AdriHealthMob - Adriatic Model of Sustainable Mobility in the Health & Care Sector- Strategic Call Adriatic IPA CBC Programme 2007-2013; Budget 6.293.496€ - Sector: Transport & Health – Countries 8 –Partners 17;
- 2015/2017 Scientific committee member – project AWARD - Agricultural Waste valorisation for a competitive and sustainable Regional Development- Greece - Italy Programme 2007-2013; Ordinary Call, Budget € 1.803.272,40- Sector: Strengthening competitiveness and innovation; Countries 2, Partners: 6;
- 2015/2017 Scientific committee member – project EA SEA-WAY - Europe-Adriatic SEA-WAY - Strategic Call Adriatic IPA CBC Programme 2007-2013; Budget € 6.293.496,41, Countries 8, Partners: 36;
- 2015/today Member of the Management Committee as Italian delegate in the COST Action "Quality Specifications for Roadway Bridges, Standardization at a European Level", Action number TU1406 (2015);
- 2015 Scientific Leader of the project "Provincial Foreigner Recruitment Program- Supporting Poor counties, old revolutionary areas and the cooperation between Fujian and Taiwan". Fujian (P.R. China) (50.000 YUAN);
- 2016 Scientific Leader of the project "Provincial foreigner recruitment program -1 hundred talents - Fujian (P.R. China) (200.000 Yuan);

2.2.2. Scientific Responsibility of Research Projects that Provide Partnership Agreements with Private and Public and/or Private Entities

- 2006/2008 Scientific leader of the research contract "Design, verification and optimization procedures for special and ordinary steel-concrete mixed reticular beams", founded by Metal.Ri snc (105,000,00€);
- 2008/2009 Scientific consultant, research project "Electronic Build" - POR Campania 2000/2006 measure 3.17 - Framework agreement on e-government and information society for a metadistrict project of the second phase - (Executive Decree No. 52/06)";
- 2009/2011 Scientific leader of the research project "RUCOSE", with Italcementi Spa and Irigom Srl, "Study on the possible uses of recycled tires in concrete structural elements";

- 2009/2011 Scientific leader of the research contract between Politecnico di Bari and Avangarde s.r.l., "Design and coding of algorithms for vibration analysis to evaluate quality of dynamic surveys", as part of the project "ISYMOT", 39.000,00€;
- 2009/2011 Scientific leader of the research contract between Politecnico di Bari and Irigom srl, titled "RU.CO.CE" (rubber concrete for civil engineering), founded by Irigom srl, 60.000,00€;
- 2010 Co-scientific leader of the research contract between Puglia region and Dipartiment DICAR of Politecnico di Bari, titled "Sprepas - (Preliminary study of the Apulian school heritage)", € 70.000,00;
- 2010/2013 Scientific leader of Politecnico di Bari of local research unit - research contract DPC/RELUIS, Line 1, thematic area 1, Task 2 – structures in ordinary and precast reinforced concrete - "Criteria evaluation for Optimum sensors placement for Structural Monitoring: Comparison of Classic and New Generation Algorithms for Structural Monitoring and Identification" (12.750,00 €);
- 2011 Scientific leader of the research project between Italian Navy and Politecnico di Bari, "preliminary evaluation for the dynamic monitoring of the Taranto's swing bridge", founded by Marigeminil (Direzione Genio Militare per la Marina) Taranto, 10.000,00€;
- 2012/today scientific and technical principal investigator of the Research Contract between the Department of Environmental Engineering and Sustainable Development (DIASS) Polytechnic of Bari and the Province of Taranto for "Support activities of verification of structural projects with regard to their compliance with N.T.C. 2008" (first year – 2008 - 20,000 € , following years (to date) € 10,000/year.
- 2014 Local unit scientific leader- Research Contract with the DPC / RELUIS - Project AQ DPC/ReLUIIS 2014-2018 - Line Reinforced Concrete, RS 11 – "Uncertainties in structural evaluation of existing buildings" (20.000,00€);
- 2015 Local unit scientific leader- Research Contract with the DPC/ReLUIIS– Project AQ DPC/ReLUIIS 2014-2018; Research line "Reinforce concrete structures - WP1 Task 1.1 Techniques for the geometric and mechanical characterization, WP3 Task 3.1 Modelling and analysis methods for complex structures and / or irregular (€ 17,000,00);
- 2016 Local unit scientific leader- Research Contract with the DPC/ReLUIIS– Project AQ DPC/ReLUIIS 2014-2018; Research lines – Reinforce concrete structures and Special Project – WP1 Task 1.1 Techniques for the geometric and mechanical characterization, WP3 Task 3.1 Modelling and analysis methods for complex structures and / or irregular (€ 4,250.00 + 12.750,00);
- 2016 National task leader, Project AQ DPC/ReLUIIS 2014-2018 of WP1 - task 1 of research line "Reinforce concrete structures";
- 2017 Local unit scientific leader- Research Contract with the DPC/ReLUIIS– Project AQ DPC/ReLUIIS 2014-2018; Research line "Reinforce concrete structures" 11.475,00;

2.2.3. Selected research projects where involved as participant

- 1996 MURST 40%: " Innovative technologies for the mitigation of the effects of vibrations in structural systems ", Local Unit Coordinator Prof. Mezzina;

- 1998 Research project CNR/GNDT - DICAR Technical University of Bari: " Assessment of viability for masonry buildings ", Coordinator Prof. Mezzina;
- 1999 Contract CNR/IRIS - DICAR Technical University of Bari: " Strategies of connection between innovation and tradition of sustainable techniques for the restoration and recovery of the buildings and the historic city ", Coordinator Prof. Mezzina;
- 2000 Research project ENEA – DICAR Technical University of Bari: " DITECE Project- Methodologies and techniques for the diagnosis in the evaluation of damageability of reinforced concrete and masonry buildings", Coordinator Prof. Mezzina;
- 2002 Research project CETMA-ISUFI- Technical University of Bari - Technical University of Milan – INOA-EIEn-ATS: "SIDART - Integrated system for the diagnosis of historical heritage" funded under the PON, Coordinator Prof. Mezzina;
- 2003 PRIN: "Structural safety of masonry constructions and traditional intervention strategies. A case study in Calabria: information system for the recovery of the historic village of Laino Castello", Local Unit Coordinator Prof. Mezzina;
- 2004 PRIN- “Calcolo delle tensioni residue e dei parametri di fatica multiassiale nella fatica da contatto; Local Unit Coordinator Prof. Demelio.
- 2004 Research project FCRP (Fondazione Cassa di Risparmio di Puglia) – DICAR Technical University of Bari "Seismic risk mitigation and interventions strategies", Coordinator Prof. Mezzina;
- 2005/2007 Research project DPC/RELUIS – task 2: " ND methodologies for the knowledge of the existing structures and calibration of confidence factors. "Unit n. 13:" Evaluation and reduction of vulnerability of existing RC buildings", Local Unit Coordinator Prof. Mezzina;
- 2008/2010 Contract between Autorità di Bacino della Regione Puglia - DICAR Technical University of Bari: " Territorial Analysis of Hazard and urban and structural vulnerability", Coordinator Prof. Mezzina;
- 2008/2010 Research project DPC/RELUIS – task 1.1 “New aspects in the evaluation of existing structures and evaluation of the seismic risk on regional scale "-Unit Poliba", Local Unit Coordinator Prof. Mezzina;
- 2011 PRIN “Development of Models and Simulations methods for Finite Elements for Non-Destructive Ultrasonic Detection of Industrial Products”, Local Unit Coordinator Prof. Giuseppe Acciani.
- 2012/today Research project (supported by Italian Minister for Cultural heritage) for the continuous dynamic monitoring (using wireless accelerometers network) of the Anfiteatro Flavio (Colosseo) in Roma, scientific leader Prof. G. Monti;
- 2014/today Research project supported by “Opera della Primaziale Pisana” for the dynamic monitoring of the Tower of Pisa (Italy), scientific leader Prof. C. Nuti
- 2015 US National Science Foundation (NSF) George E. Brown Network for Earthquake Engineering Simulation Research (NEESR) project “Inertial Force-Limiting Floor Anchorage Systems for Seismic Resistant Building Structures” being led at the University of Arizona by Principal Investigator Prof. Robert B. Fleischman, with co-investigators Prof. Jose

I. Restrepo at University of California San Diego and Prof. Richard Sause at Lehigh University

2.2.4. Supporting Memorandum of Understanding (MoU) with foreign universities

- 2003 Responsible of MoU between Cambridge University and Politecnico di Bari / 2nd Faculty of Engineering;
- 2015 Member (with prof. B. Briseghella) of the International commission - responsible for the coordinating and supervising of activities between Politecnico di Bari and Fuzhou University (People Republic of China)
- 2016 Member (with prof. M.D. Safi) of the International commission - responsible for the coordinating and supervising of activities between Politecnico di Bari and Nangarar University (Islamic Republic of Afghanistan)

2.3. Supervisor of PhD, post-degree fellowships and Research fellowships

2.3.1. PhD students

- PhD-1 Andrea Pollio (co supervisor) Environmental engineering doctorate school, Technical University of Bari XV2ndI cycle, "Modelling of a flexible marine riser behaviour in presence of slug flow regime", co-tutor
- PhD-2 Sara Sgobba, Environmental engineering doctorate school, Technical University of Bari, XXI cycle, "Stochastic seismic spectra"; Actually Senior researcher at the Italcementi group (Italian leader in cement production)
- PhD-3 Emiliano Morrone, Environmental engineering doctorate school, Technical University of Bari, XXI cycle, "Fuzzy uncertain for structural analysis"; Actually Staff at the technical office at Province of Taranto
- PhD-4 Giuseppe Quaranta (co-supervisor), Structural engineering doctorate school (XX2ndI cycle), Sapienza University of Rome , "Optimal sensors placement and soft computing based identification methods for structural monitoring", Actually Assistant Professor at Università Sapienza di Roma
- PhD-5 Jennifer Avakian, Environmental engineering doctorate school, Technical University of Bari, XXIV cycle, "Evolutive algorithms in structural engineering optimization and identification";
- PhD-6 Fabrizio Palmisano, Environmental engineering doctorate school, Technical University of Bari, XXIV cycle, "Landslide structural vulnerability of masonry buildings.";
- PhD-7 Andrea Giannico, Environmental engineering doctorate school, Technical University of Bari, XXIX cycle, "Fuzzy probabilistic analysis of the comfort perceived by pedestrians exposed to traffic-induced vibrations on bridge structures "
- PhD-8 Fuina Silvana (in progress), PhD course in "Biodiversity, agriculture and environment", university of Bari Aldo Moro (XXX ciclo)- Department of Sciences Agro-Environmental and Territorial (DISAAT). Thesis title: Structural Innovation in constructions for protected crops: analysis and testing of roofing materials and "Tensegrities"structures.
- PhD-9 Angelamaria Abrescia, Technical University of Bari, DEI , PhD course in Electronic and Electro-technic engineering, "Energy harvesting from random vibrations using piezoelectric devices"

PhD-10 Congiu Eleonora (in progress), PhD course in Civil Engineering and Architecture, Università di Cagliari (XXX2nd ciclo), Department of Civil Engineering and Architecture

2.3.2. Tutor of Research fellowship

2009 Research fellow Supervisor “Innovative methods for lifetime estimation of reinforced concrete structures subjected to chloride penetration and vulnerability analysis of strategic facilities”, Dr Sara Sgobba, Technical University of Bari

2010 Research fellow Supervisor "Advanced soft computing based techniques to structural dynamic monitoring ", Dr Giuseppe Quaranta, Technical University of Bari;

2011 Research fellow Supervisor, "Advanced techniques for monitoring and structural diagnostics", Technical University of Bari, Dr. Giuseppe Quaranta;

2015 Research fellow Supervisor “Reliability evaluation and structural safety in the presence of uncertainties”, Technical University of Bari, Dr. Alessandra Fiore

2.3.3. Post-degree fellowship

2002/2003 Arch. Maria Giovanna dell'Aglia, “Architectonic and structural planning for buildings subject to seismic risk”, Technical University of Bari;

2006/2007 Civ. Eng. Giuseppe Palombella, “Bridge seismic isolation”, Technical University of Bari;

2010/2011 Civ. Eng. Floriana Petrone, “New mixed concrete/steel reticular beams, ", Technical University of Bari”.

2.4. Official research, teaching and fellowship roles, positions as Visiting Professor in international highly qualified universities

2002 Visiting assistant professor, Cambridge University (UK) - (6 months);

2012 Adjunct Professor, Loughborough University (UK) - (1 month);

2014 Visiting Professor, Hunan University, Changsha, Hunan Province (China)- (0,5 month);

2015 Research Fellow, SIBERC, Fuzhou University, Fujian (China); (1 month);

2016 Visiting Professor- Faculty of Civil Engineering, Fuzhou University, Fuzhou, Fujian Province, China- (1 month);

2017/today Full professor, Fuzhou University, Fujian (China);

2.5. Partecipazione in Accademie e Associazioni

From 2009 Member of FIB (CEP-FIP, Fédération Internationale du Béton - International Federation for Structural Concrete), Committee 8 “Durability” and Committee 5, task 5.13;

From 2015 Member of “Apulian academy of science”;

From 2016 Member of SAFEA (State Administration of Foreign Experts Affairs) of P.R. China , entity responsible for the certification of foreign experts for working in china and for the organization of foreign trainings for Chinese professionals and technicians;

From 2017 Member of the SINEDRIO - “Association of Italians academics in China”

2.6. Prizes and awards awarded for teaching and scientific activities

- 1997 Special mention (Arch. M. Montemurro and Arch. C. Mannino) for the design contest by the Municipality of Trani for a stone house in Trani (BA). Structural aspects were conjugated with the expressive and architectural values of stones in order to study its use combining shapes and structures safety in a modern architectural design approach;
- 2003 *Letter of appreciation* for activities due as visiting professor at the Cambridge University, Prof. Prof. Robin Langley;
- 2008 *Letter of appreciation* for the teaching and scientific activities carried out by prof. Marano at the 2nd Faculty of Engineering – faculty council (Dear Prof. Giustolisi) 17.07.2008;
- 2008 2008 The paper "Robust optimum design of tuned mass dampers devices in random vibrations mitigation", Journal of Sound and Vibration, Volume 313, Issue 3-5, June 2008, Pages 472-492, Marano, G.C.; Sgobba, S.; Greco, R.; Mezzina, M., was ranked 3rd among the Top 25 Hottest Articles published by “Journal of Sound and Vibration” (period: April2008 to june2008);
- 2008 The paper: "Fuzzy-based robust structural optimization" International Journal of Solids and Structures, Volume 45, Issue 11-12, June 2008, Pages 3544-3557 Marano, G.C.; Quaranta, G.; was ranked twelfth 12th among the Top 25 Hottest Articles published by “International Journal of Solids and Structures” (period: April 2008 to June 2008);
- 2010 The paper: "A comparison between different optimization criteria for tuned mass dampers design", Journal of Sound and Vibration, Volume 329, Issue 23, November, Pages 4880-4890 Carlo Marano, G.; Greco, R.; Chiaia, B.; was ranked sixth among the Top 25 Hottest Articles published by “Journal of Sound and Vibration” (period: June 2010 to September 2010);
- 2011 *Letter of appreciation* for the Keynote lecture at the International Conference on Earthquake Analysis and Design of Structures (EQADS 2011), December 1-3, 2011 Department of Civil Engineering, PSG College of Technology, Coimbatore, Tamilnadu, India; “Soft Computing Applications in Structural Dynamic Monitoring”;
- 2012 *Certificate of Appreciation*, for the *Outstanding Lecture* at the “2012 New Millenium, International Forum on Advanced Construction Technologies”, Changsha, Hunan, China, September 14-17, 2012; “Parametric identification of nonlinear devices for seismic protection using soft computing techniques”;
- 2013 *Maximum ranking evaluation* (3/3 – excellent) at the first Italian scientific quality evaluation (VQR 2004-2010)
- 2013 Acknowledgement of reviewers - prof. DM Frangopol Editor of the international journal “Structure and Infrastructure Engineering;
- 2014 Letter of appreciation for the “High level of professionalism that have shown during the process of peer review” from the JSC (National Centre of Science and Technology Evaluation” of Kazakistan;
- 2014 *Mention of honor* “Italian prize for sustainable architecture Fassa Bortolo” - Co-supervisor of the architecture master thesys “New railway station AV/AC in Bari“

- 2015 The paper “INELASTIC SEISMIC SPECTRA INCLUDING A DAMAGE CRITERION: A STOCHASTIC APPROACH” (Soil Dynamics and Earthquake Engineering, Volume(s) 70, 01-Jan-2015, Pages 75-79 has been downloaded more than 128 times in the first two months since its online publication;
- 2015 The paper "Parameters Identification of Stochastic Nonstationary Process Used in Earthquake Modelling" has achieved impressive readership results. The chapter published with InTech in the book Earthquake Research and Analysis - New Advances in Seismology" has so far been accessed 1000 times (by the end of 2014). For this reasons **Editors sent congratulations** on the significant impact that your work has achieved to date;
- 2015 The paper "Modified Genetic Algorithm for the Dynamic Identification of Structural Systems Using Incomplete Measurements", published in Computer-aided civil and infrastructure engineering, Vol 26 Issue 2 Pages 92-110, has been indicated as a “**Highly Cited paper**” on Web of Science, as of July/August 2015. This highly cited paper received enough citations to place it in the top 1% of its academic field based on a highly cited threshold for the field and publication year. (Data from Essential Science IndicatorsSM)
- 2016 *Certificate of appreciation* for the Keynote Lecture “Automatic knowledge discovery in structural engineering: perspectives using evolutionary polynomial regression EPR”, International Workshop “New Trends in Structural Engineering”, 18 Luglio 2016, Fuzhou University, Fuzhou, P.R. China;
- 2017 *Maximum ranking evaluation* (2/2 - excellent) at the second Italian scientific quality evaluation (VQR 2011-2014)
- 2017 The chapter "Parameters Identification of Stochastic Nonstationary Process Used in Earthquake Modelling", published in the book “Earthquake Research and Analysis - New Advances in Seismology” Edited by: Sebastiano D'Amico, ISBN 978-953-51-1054-5 Publisher: InTech, Publication date: March 2013 has been downloaded 1500 times to August 2017 (official chapter performance metrics from INTECH)

2.7. Invited speaker

2.7.1. Invited lectures at conferences

- 2009 Invited lecture at the CSC2009: The First International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering, Funchal, Madeira, Portugal, 1-4 September 2009, “Genetic algorithms in mechanical systems identification: state-of-the-art review”;
- 2011 Keynote lecture at the International Conference on Earthquake Analysis and Design of Structures (EQADS 2011), December 1-3, 2011 Department of Civil Engineering, PSG College of Technology, Coimbatore, Tamilnadu, India (http://www.psgtech.edu/eqads2011/index_files/page0022.htm) – “Modelling of stochastic process for earthquake representation as alternative way for structural seismic analysis: past, present and future”;
- 2012 Keynote lecture, "Parametric identification of nonlinear devices for seismic protection using soft computing techniques" at ICACIE2012 - International conference on advances in civil infrastructure engineering,

- Changsha, Hunan, China, on Sep. 14-16, 2012., (<http://icacie2012.csuft.edu.cn/dct/page/65581>);
- 2013 Invited lecture at the CSC2013: The Third International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering, Cagliari, Sardinia, Italy, September 3-6, 2013 – “Soft Computing Applications in Structural Dynamic Monitoring”;
- 2014 Semi-plenary keynote ”Knowledge discovery in engineering using evolutionary polynomial regression: past experiences and perspectives” 1st International Conference on Engineering and Applied Sciences Optimization (OPT-I), Kos (Greece) 2-4 June;
- 2015 Invited lecture for The Fourth International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering (CIVIL-SOFT-COMP 2015) to be held in Prague, Czech Republic 1-4 September 2015, “Evaluation of the plastic hinge length for nonlinear analysis of reinforced concrete buildings”;
- 2016 Invited for a Keynote at the at the 10th National Conference on Theory and application of Random Vibration & the 5th National Conference on Stochastic Dynamics of China - International Conference on Theory and Application of Random Vibration (ICTARV 2016), on 5th and 6th of November 2016, Fuzhou, Fujain Province, P.R.China - G.C. Marano “Random Vibrations in Earthquake Engineering: State of the Art and Future Perspectives”
- 2016 Invited Speaker at the 2ndI International Young Researchers Conference "Youth, Science, Solutions: Ideas and Prospects, presenting a lecture: “Recent Developments on Seismic engineering research: A focus on new developing and applications”, (YSSIP-2016) - 22-25 November 2016 at Tomsk State University of Architecture and Building (Tomsk, Russia)
- 2017 Invited Speaker at the 15th Annual Meeting of China 's Uncertainty System and the 19th Youth Information and Management Scholars Conference, 26-30 July 2017 (Fuzhou, China) presenting a lecture: “Uncertainty in Structural Engineering: current problems and future challenges”

2.7.2. Invited lectures in scientific workshops

- 2010 AICAP: Invited talk "New perspectives on structural health monitoring", Study Committee AICAP for concrete structures, 19 Ottobre 2010 - Roma (IT);
- 2011 Invited speaker, “Use of recycled elements from tyres in concrete”, one day workshop “Utilizzo di prodotti da riciclo dei pneumatici fuori uso nel calcestruzzo”, Faculty of Engineering, Department of Innovation Engineering, University of salento, 16 march 2011, Lecce;
- 2015 Invited lecture - IABMAS (Italy): WORKSHOP “Innovative solutions for bridges’ maintainance”: -Reti di sensori per la gestione efficiente dei ponti con criteri multi-performance: il caso del ponte S. Francesco da Paola a Taranto, Benevento 27 Ottobre 2015
- 2015 Invited lecture at the 6th Sino-Italian Workshop on “New topics in civil engineering research” - 3-5 December 2015, Tongji University (Shanghai - Cina): “Energy Harvesting for Random Vibrating Structures”;
- 2016 Invited Speaker at the International Workshop “New Trends in Structural Engineering”, July 18, 2016 Fuzhou University - Collage of Civil Engineering (Fujian, China), “Automatic knowledge discovery in

structural engineering: perspectives using evolutionary polynomial regression EPR”;

- 2017 Invited Speaker at the International Workshop “Holistic Approach to Sustainable New and Existing Structures and Bridges”, Fuzhou University, College of Civil Engineering, 1° - 2° July 2017, G.C. Marano: “Structural Optimization: past, present and future”;

2.7.3. Invited lectures in Universities

- 2002 Invited at the Friday talk "Stochastic analysis of base-isolation of buildings from earthquakes" Department of Engineering, Dynamics & Vibration Research Group, Cambridge University (UK), February 2002;
- 2012 Invited lecture at New Castle University (UK) “Soft Computing Applications in Structural Dynamic Monitoring”, November 2012
- 2012 Invited lecture at Hunan University (China) "Performance Based Seismic Design", 28 September 2012, College of Civil Engineering, Hunan University, Changsha, Hunan (China);
- 2015 Invited lecture at Xiamen University, November 11th 2016, “Uncertainty in Earthquake Engineering”, Xiamen (China).
- 2015 Invited lecture “Applications in Structural Dynamic Monitoring”, University of Cagliari.

2.7.4. Invited speaker in workshop and seminars for engineers and technicians

- 2005 Invited speaker at the meeting “Costruzioni portanti in blocchi: aspetti strutturali e Tecnologici” in – Workshop organised by Assoindustria Taranto, Assobeton, “Blocchi e Masselli in Cls: Evoluzione Normativa e Prospettive di impiego”;
- 2006 Invited speaker at the Workshop organised by Professional Association of Engineers, Architects and quantity surveyor and Confindustria - “Aspetti progettuali per una struttura durevole”, Matera, 29 November 2006;
- 2008 Invited speaker at the one day workshop "New standards structural engineering", presenting a talk “Materials for structural engineering”, organised by Province of Taranto Professional Association of Engineers, Taranto , 20th July 2008;
- 2009 Invited speaker “Modelling of seismic actions, Workshop “Il calcolo delle azioni sismiche e la combinazione degli effetti modali alla luce delle nuove NTC”, organised by Province of Taranto Professional Association of Engineers, Massafra, 16/01/2009;
- 2009 Invited speaker at the workshop “Analysis of seismic risk after the l’Aquila earthquake”, Rotary Club Bari Castello, Bari, 2.10.2009;
- 2009 Invited speaker at the workshop “Terremoto d’Abruzzo 2009: Prime considerazioni ad un mese dal sisma”, organised by 2nd Faculty of Engineering in Taranto, Politecnico di Bari, 8.05.2009;
- 2009 Invited speaker at the workshop “Diagnosi e monitoraggio dei dissesti degli edifici”, organized by Province of Matera Association of Geologist, 9.10.2009, Matera;
- 2009 Invited speaker at the workshop “Seismic loads modelling”, organised by the Province of Barletta Andria Trani (BAT) Professional Association of Engineers, Bisceglie, 10.11.2009;
- 2011 Invited speaker “Scenari nella gestione del ponte mediante tecniche di monitoraggio”, at the Workshop *Il Ponte Girevole di Taranto: una salute*

- di ferro? Attualità e prospettive*, organised by Politecnico di Bari, Università la Sapienza Roma and Italian Navy, 7.02.2011, Taranto;
- 2012 Invited speaker “Il rischio sismico – Prevenzione e controllo sulle strutture industriali”, at the “Giornata sulla sicurezza sul lavoro”, organised by Ente Scuola Edile Taranto – 22/23 June 2012, Taranto
- 2012 Invited speaker at the Workshop “Seismic Safety of Industrial Scaffolds”, organised by ICAM srl , “Una scaffalatura antisismica vale più di un buon formaggio”, 17.12.2012, Noci (Bari);
- 2013 Invited speaker “Protezione sismica di edifici mediante isolamento alla base: *una tecnologia matura* (?)“ at the Workshop “Il Progetto integrato per l’edilizia residenziale pubblica: la ricerca a servizio del territorio”, ARCA Capitanata, Foggia, 7.10.2013;
- 2014 Invited speaker “Le Norme Tecniche per le Costruzioni: Aggiornamenti”, Workshop organised by Formedil-Bari, 18.12.2014;
- 2014 Invited speaker “Monitoraggio dinamico nelle opere civili”, Auditorium Giovanni Paolo 2nd, organised by Università Europea di Roma, Roma, 12.06.2014;
- 2016 Invited speaker “Progettazione sismica con sistemi dissipative” in “Soluzioni per la progettazione antisismica”, workshop organised by Province of Bari Professional Association of Engineers, 27.06.2016,
- 2017 Invited speaker “Giornata di studio: Zona Sportiva e Nuovo Stadio: un progetto per la Città di Bitonto”, organised by da Urban Center, Department of urban planning policies of the Municipality of Bitonto, Bitonto July 2017;
- 2017 Invited speaker “Archeologia industriale: La sintesi della forma nella struttura”, in one day workshop “Riqualficazione dei siti dismessi tra rigenerazione urbana e innovazione sociale”- organised by Confindustria – Council of Architects, Planners Landscape and Conservatives of the Province of Bari, Bari July 2017.

2.8. Coordinator /participation in the scientific /organizing committees of Conferences, workshop and courses

2.8.1. Conferences

- 2009 Member of CSC2009 Editorial Board, the first International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering - Funchal, Madeira Island, 1-4 September 2009 (<http://www.civil-comp.com/conf/csc09.htm#edtbrd>);
- 2011 Member of the Organization Committee of Italian congress of seismic engineering, Anidis 2011, Bari September 2011;
- 2011 Member of CSC2011 Editorial Board: The Second International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering - Creta, Chania, September 2011;
- 2012 Member of the scientific committees at ICACIE2012 - International Conference on Advances in Civil Infrastructure Engineering, September 15-16, 2012, Changsha, China
- 2012 Member of the Scientific Committees of International Symposium on “Engineering Under Uncertainty: Safety Assessment and Management”, (ISEUSAM- 2012), January 4 to 6, 2012, at Bengal Engineering and Science University (BESU), Shibpur, India;

- 2012 Member of the Scientific Committees, "Opensees Days: Modeling, calculation and analysis of structures in seismic areas - First Italian Conference "Rome (Italy), 24-25 may 2012;
- 2013 Member of CSC2013 Editorial Board: The third International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering , Cagliari, Sardinia, Italy 3-6 September 2013 (<http://www.civil-comp.com/conf/csc13.htm#edtbrd>);
- 2015 Member of the International Scientific Committee - 7th International Conference on Structural Health Monitoring of Intelligent Infrastructure in Torino - Turin - Italy, on July 1-3, 2015 (<http://www.shm2nd2015.org/index.html>);
- 2015 Member of the Committee for the International conference OpenSeesDay Italy 2015, Salerno, 10-11 June 2015 (<http://www.openseesdays.org/>);
- 2015 Member of the International Scientific Committee – ACE2015 - The 2nd International Symposium on Advances in Civil and infrastructure Engineering, Vietri sul Mare, Italy, 12-13 June 2015 (<http://ace2015.org/>);
- 2015 Member of the Editorial Board of the Fourth International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering (CIVIL-SOFT-COMP 2015), Prague, Czech Republic 1-4 September 2015.
- 2016 Member of the Scientific Committee at the 10th National Conference on “Theory and application of Random Vibration & the 5th National Conference on Stochastic Dynamics of China - International Conference on Theory and Application of Random Vibration (ICTARV 2016)”, on 5th and 6th of November 2016, Fuzhou, Fujain Province, P.R.China.

2.8.2. Workshop

- 2009 Coordinator of the one day Workshop "Terremoto d'Abruzzo prime considerazioni ad un mese dal sisma", organised by Politecnico di Bari, May 8th 2009, Taranto (It);
- 2011 Scientific coordinator Workshop *Il Ponte Girevole di Taranto: una salute di ferro? Attualità e prospettive*, organised by Politecnico di Bari-Università la Sapienza Roma, 7 FEBBRAIO 2011, Taranto (Italy)
- 2012: Scientific coordinator, Workshop "Codes evolution in structural design: from NTC2008 to NTC2012" organizzato da Taranto engineers council, February 12, 2012;
- 2012 Scientific Coordinator, Workshop "ModelCode 2010, verso le normative strutturali del prossimo ventennio", organized by the Technical University of Bari and Bari Engineers Council, 4 may 2012, Bari;
- 2015 Member of the Scientific Committee of the Workshop Italy – Portugal in “Structural Monitoring”, 26-27 October, Porto;
- 2015 Member of the Scientific Committee of 4th International Workshop DISS_15 – Dynamic Interaction of Soil and Structure, 12-13 November 2015, Rome (Italy);
- 2016 Member of the Scientific Committee of international workshop “New Trends in Structural Engineering”, 18 July 2016, Fuzhou University, Fuzhou, P.R. China
- 2017 Member of the scientific committee, international workshop on “Holistic Approach to Sustainability of Existing and New Structures”, 30 June -2 July, Fuzhou University, Fuzhou, China.

2.8.3. Courses

- 2011 Scientific coordinator of professional course for architects and engineerings "Structural Engineering module I – reinforced concrete structures ", Province of Taranto Scuola Edile;
- 2012 Scientific coordinator of professional course for architects and engineerings "Structural Engineering module 2nd – Masonry structures ", Province of Taranto Scuola Edile;
- 2016 Member of the scientific committee “First International Summer School in Structural Morphology”, Fuzhou University Fuzhou, Cina, September 12-21 (2016);
- 2017 Scientific coordinator of the “Second International Summer School in Structural Morphology”, Fuzhou University Fuzhou, Cina, September 2017;
- 2017 Member of the scientific committee of the “Second International Short Course - Seismic Analysis of RC Structures Using Opensees”, 3-4 July 2017, Fuzhou University, Fuzhou China;
- 2017 Member of the scientific committee of the “Second International Short Course -Seismic Analysis of RC Structures Using Opensees”, 6-7 July 2017, Nanjing University, Nanjing China.

2.9. Organisation of Minisimposium in conferences

- 2011 Organiser of special session for the XIV Italian Conference of Seismic Engineering, ANIDIS “Associazione Nazionale di Ingegneria Sismica”, (Bari, 18-21 September 2011), “Structural diagnostic using dynamic monitoring”, organised by Giovanni Fabbrocino, Giuseppe Carlo Marano, Giorgio Monti & Giuseppe Quaranta;
- 2011 Organizer of special session for the XIV Italian Conference of Seismic Engineering, ANIDIS “Associazione Nazionale di Ingegneria Sismica”, (Bari, 18-21 September 2011), “I Prodotti in Acciaio nella Progettazione Antisismica”, (Bari, 18-21 Settembre 2011), organised by G.C. Marano e Walter Salvatore;
- 2011 Minisimposium organisation "Fuzzy methods in computational dynamics", nella 3rd International Conference on Computational Dynamics & Earthquake Engineering (Compdyn2011), Corfu, Greece, May 26-28, 2011, with Michael Beer and Yiannis Tsompanakis;

2.10. International research projects evaluations

- 2009 Referee for the National Research Foundation in South Africa to the Project Evaluation for the SA/Germany scientific cooperation agreement;
- 2010 Referee for the Chilean National Commission for scientific and technological development (*conicyt - chile*) to review scientific project presented to the national research funding (Chile) competition;
- 2010 Referee for the National Center of science and technology evaluation, Ministry of Education and Science, Astana, Republic of Kazakhstan;
- 2012 Referee for the Czech Science Foundation - The Main Public Funding Agency in the Czech Republic supporting all areas of basic scientific research;
- 2014 Referee for the National Center of Science and Technology Evaluation, Ministry of Education and Science, Astana, Republic of Kazakhstan.

2.11. Participation in the Editorial Board of International Journals

- Shock and Vibration (I.F. 1.281);

- Mathematical Problems in Engineering (I.F. 0.802)
- International Journal of Engineering under Uncertainty: Hazards Assessment and Mitigation

2.12. Reviewer of international journals

Invited as reviewer:

- Mathematical Problems in Engineering
- Advances in Civil Engineering
- Applied Soft Computing
- Shock and Vibration
- Journal of Sound and Vibration
- Structural and Engineering Mechanics
- Computer-Aided Civil and Infrastructure Engineering
- Engineering Structures
- International Journal of Stability and Dynamics
- Journal of Earthquake Engineering
- Journal of Structure and Infrastructure
- Computer Methods in Applied Mechanics and Engineering
- ASCE Journal of Structural Engineering
- ASCE Journal of Bridge Engineering
- ASCE Journal of Materials in Civil Engineering
- Earthquake Spectra
- Soft Computing
- Structural safety
- Computer Aided in civil engineering
- Computer and Structures
- Probabilistic Engineering Mechanics
- Journal of Computation
- Structural and Multidisciplinary Optimization
- Journal of The Institution of Engineers (India): Series A
- Structure and Infrastructure Engineering
- Earthquake Engineering and Engineering Vibration
- Engineering Geology
- Smart Structure and Systems
- International Journal of Architectural Heritage
- Journal of Materials in Civil Engineering
- Soil dynamic and earthquake engineering
- Mechanical Systems and Signal Processing
- Chaos, Solitons & Fractals
- Journal of Vibration and Control
- Materials and Structures
- Chinese Journal of Aeronautics
- *Structural and Engineering Mechanics*

2.13. Scientific and technological transfer

2.13.1. Patents

- 2011 European Patent - Designation as inventor (under rule 19(3)) European Patent Office, Application N°.11425262.0 - 1255): "Structural Node for Steel-Concrete composite truss joint";

- 2011 European Patent - Designation as inventor (under rule 19(3)) European Patent Office, Application N°.11425264.6 - 1255): "Non self supporting steel truss for mixed steel-concrete systems";
- 2011 European Patent - Designation as inventor (under rule 19(3)) European Patent Office, Application N°.11425268.7 - 1255): "Concrete and steel structural node to connect beams to column";
- 2011 European Patent - Designation as inventor (under rule 19(3)) European Patent Office, Application N°.11425263.8 - 1255): "Self-supporting steel truss for mixed steel-concrete truss system";
- 2015 European Patent – Designation as inventor “Lightweight resilient concrete sub-base layer with recycled rubber from discarded tyres with reduced walking impact noise” registered as CA2963065 A1 or WO2016051382A1

2.13.2. Participation in innovative companies

- 2012 /2017 associate and founder, of IDEA (Innovation, Decision, Environment, Awareness) Research Transfer s.r.l. - Politecnico di Bari Spin Off company;

2.13.3. Industrial systems

- 2012 Inventor and Designer of system “Thor -structural dynamic monitoring expert system” (<http://thor.waveng.it/Home.html>) for structural monitoring;

3. Teaching

3.1. International Teaching in Bachelor's, Master of Science's, Masters and PhD courses

3.1.1. Institutional courses

- 2012 “Structural analysis and mechanics 4 (pre-stressed concrete)”, Master of Science's in Civil Engineering, Loughborough University (UK) (30 hours);
- 2017 “Soils mechanics”, international bachelor in Civil Engineering and Environmental engineering, Manitoba University (Canada) and Fuzhou University, (China) (52 hours).

3.1.2. Short Courses

- 2014 Short course “Pre-stressed Concrete Design”, Hunan University (China), Bachelor's in Civil Engineering (4 h);
- 2016 Short Course “Pre-stressed Concrete Design”, Fuzhou University (China), Master degree in Civil Engineering (4 h);
- 2016 Short course "Matlab for structural Engineering" Master in Civil and Structural Engineering, Fuzhou University, (2 h)
- 2017 Short course “Pile design for seismic loads”, course "Bridge Abutment Design", Master in Structural Engineering, Fuzhou University (4 h)
- 2017 Short Course "Structural Optimization" course “Bridge Conceptual Design”, Master in structural Engineering, Fuzhou University (8 h)

3.2. Teaching in Italian undergraduate and post-graduates courses

2003/04

- Structural design I – 6 credits (Degree in Civil Engineering and Environmental engineering)
- Structural design II – 6 credits (Degree in Civil Engineering)

2004/05

- Structural design I – 6 credits (Degree in Civil Engineering and Environmental engineering)
- Structural design II – 6 credits (Degree in Civil Engineering)

2005/2006

- Structural design I - 6 credits (Degree in Environmental engineering)
- Ingegneria sismica applicata al territorio - 6 credits (Master degree in Environmental engineering)
- Advanced in Structural design - 6 credits (Master degree in design and management in civil engineering)

2006/2007

- Seismic engineering for environmental engineering - 6 credits (Master degree in Environmental engineering)
- Elements of Seismic engineering - 3 credits – (Master degree in design and management in civil engineering)

2007/2008

- Seismic engineering for environmental engineering - 6 credits (Master degree in Environmental engineering)
- Elements of Seismic engineering- 3 credits – (Master degree in design and management in civil engineering)

2008/2009

- Territorial use of seismic engineering - 6 credits (Master degree in Environmental engineering)
- Elements of Seismic engineering- 3 credits
- Advanced in Structural design - 6 credits (Master degree in design and management in civil engineering)
- Automatic analysis of structures - 3 credits

2009/2010

- Seismic design for environmental engineering - 6 credits (Master degree in Environmental engineering)
- Automatic analysis of structures - 3 credits
- Elements of Seismic engineering - 3 credits

2010/2011

- Advanced of structural design - 6 credits (Master degree in design and management in civil engineering)

2011/2012

- Structural design II - credits (Master degree in environmental engineering)
- Structural design II (2nd module) - 6 credits – (Master degree in environmental engineering)

2012/2013

- Advanced structural design - 9 credits – (Master of science in building engineering)
- Structural testing - 9 credits (Master of science in building engineering)

2013/2014

- Structural design in Lab. of architectural design 2/B - 9 credits – (Master of science in architecture)
- Structural design A-B-C in Lab. 3/A-3/B-3/C of architectural design - 3 credits – (Master of science in architecture)

2014/2015

- Structural design in Lab. of architecture design 3/A-3/B-3/C - 3 credits – (Master of science in architecture)
- Structural design in Lab. of architectural design 2/B - 9 credits – (Master of science in architecture)

2015/2016

- Structural design B in Lab. of architectural design 2/B - 9 credits – (Master of science in architecture)
- Structural design lab. (3 credits): (Master of science in building engineering)

2016/2017

- Structural design - modulus I of Lab. of architectural design 2/b - 6 credits – (Master of science degree – five years course – in architecture)
- Structural design Lab. - 3 credits (Master of science in building engineering)

3.3. Teaching in national and international universities specialising master courses

- 2003 International Master (2nd level) “Environmental Policy and Management“ - Institut National des Sciences Appliquées (Lyon) and Technical University of Bari - modulus “Risk associated to earthquakes”.

- 2004 Master (2nd level) "Safety Engineering" (Technical University of Bari), Modulus "Structural design and nondestructive testing in Civil engineering" .
- 2004 Master (2nd level) "Disaster and Risk and Management" Faculty of Engineering of Taranto, Politecnico di Bari, modulus "seismic engineering".
- 2005 International Master (2nd Level) "Environmental Policy and Management" (Institut National des Sciences Appliquées – Lion Technical University of Bari)-, Modulus "Risk associated to earthquakes".
- 2009 Master (2nd level) "Innovation in design, rehabilitation and control of structures: assessment and retrofitting in seismic areas" (master MICA), Modulus "Dynamic Structural Monitoring", Università Roma Tre", Rome (4 h);
- 2010 Master (2nd level) "Innovation in design, rehabilitation and control of structures: assessment and retrofitting in seismic areas" (master MICA), module "Dynamic Structural Monitoring", Università Roma Tre", Rome (4 h);
- 2011 Master (2nd level) "Innovation in design, rehabilitation and control of structures: assessment and retrofitting in seismic areas" (master MICA), module "Dynamic Structural Monitoring", Università Roma Tre", Rome (4 h);
- 2012 International Master (2nd level) "Evaluation control and reduction of environmental seismic risk - EU-NICE (Eurasian university network for international cooperation in earthquakes)", module "Structural health monitoring" e "Monumental structures" (8 h);
- 2015 MADIS - Master "Dirigenza Scolastica", module "Structural safety of education buildings"; - University LUM, Casamassima (Bari), (8 h);
- 2015 International Master (2nd level) EuroProject "Advanced Structural design according Eurocodes (Università la Sapienza Roma); module "reinforce concrete structural design", (8 h);
- 2015 Master (2nd level) "Expert in natural and man-made risks" - Polo Scientifico Tecnologico "Magna Grecia" and University of Bari Aldo Moro, module "Structural design", (4 h);
- 2016 International Master (2nd level) EuroProject "Advanced Structural design according Eurocodes (University Sapienza Roma); Module in "State limit design" (4 h);
- 2016 International school "Structural Morphology", module "Structural optimization", Fuzhou University, Fujian Province, P.R. of China (4 h);

3.4. Doctoral courses

- 2003 course in "Structural dynamics" – PhD in Civil and environmental engineering, Politecnico di Bari (3 credits);
- 2004 course in "Structural dynamics" – PhD in Civil and environmental engineering, Politecnico di Bari (3 credits);
- 2005 course in "Structural dynamics" – PhD in Civil and environmental engineering, Politecnico di Bari (3 credits);
- 2016 course "Probability and Statistic for Civil Engineering", Fuzhou University (China), PhD in Structural Engineering (8 h);

3.4.1. Invited lectures in national and International Universities

- 2002 Invited at the Friday talk "Stochastic analysis of base-isolation of buildings from earthquakes" Department of Engineering, Dynamics & Vibration Research Group, Cambridge University (UK), February 2002;
- 2012 New Castle University (UK) lecture "Soft Computing Applications in Structural Dynamic Monitoring, November 2012
- 2012 Hunan University (China) lecture on "Performance Based Seismic Design", 28 September 2012, College of Civil Engineering, Hunan University, Changsha, Hunan (China);
- 2015 Xiamen University, November 11th 2016, "Uncertainty in Earthquake Engineering", Xiamen (China)
- 2015 University of Cagliari, invited talk "Applications in Structural Dynamic Monitoring",

3.4.2. Supervision of Bachelor's and Master of Science's Thesis

At the Second Faculty of Engineering of Taranto (2002 - 2012) he supervised more than 114 degree and master's degree theses. Subsequently (2012/2013) as Associate Professor at the DICAR Department, he tutored more than 25 theses in Building Engineering and Architecture and Building Engineering. Finally, since 2014, at the Faculty of Architecture, he has coordinated two final degree design laboratories (9 months for 18 credits) and has been co-tutor in other 5.

3.5. Teaching in technical courses for engineers and technicians

- 1999/2001 Teaching at the training course "Quality standards in building engineering"; Misura 5.6 Interreg 2nd Italia-Albania", organised by Bari IRIS-CNR, as experts in courses "Standard codes" and "Technology" at the three editions of the course 1999 (20 h), 2000 (110 h) and 2001 (80 h);
- 2003 Teaching at the training course "Limit state design of reinforced concrete structures", organised by Province of Taranto Professional Association of Engineers (4 h);
- 2006 Teaching at the training course "new seismic codes - OPCM 3274/2003 and 3431/2005", collage of chartered surveyor – province of Taranto (4 h);
- 2008 teaching at the one day course organised by the Province of Bari Professional Association of Engineers "DM 14.01..2008 – GU. 7.02.2008 new standard codes for structures and materials" 29/02/2008 (2 h);
- 2008 teaching at the training school "new standard code for structural design", organised by CTE, Module "methods for structural analysis", Foggia 13.06.2008 (2 h);
- 2011 teaching at the training school "Design and verification with new standard codes" 2nd module - "Inelastic Seismic Spectra", organised by Engineering council of Bari Province (3 h);
- 2011 Teaching at the training course "Structural engineering, Module I – Buildings in reinforced concrete", organised by Scuola Edile of Taranto's Province (8 h);
- 2012 Teaching at the training course "Structural engineering, Module 2nd – masonry buildings organised by Scuola Edile of Taranto's Province (4 h);

- 2012 Teaching at the training course in Structural Engineering at CONFAPI Taranto for the F.G.M. Engineering Sud srl “ Stress analysis” (30 h;
2012 Teaching at the training course IFTS "Static and dynamic stability " (24 h)

4. Professional activities

4.1. Professional (for free) works in the service of Politecnico di Bari

- 2014 Final project static tester “Ex OFFICINE SCIANATICO POLIBA - Project PrinCE”, Total project amount €35.000,00);
- 2015 Final project static tester “Project Z.E.R.O. Zero emission research Option”, Total amount of structural works € 60.000,00;
- 2015 Structural consultant for designing of of S.A.T (Sala alte tensioni - High voltage room) “demolition and reconstruction (total structural work amount € 3.626.801,16) and for the seismic retrofitting of Department DEI (total amount of structural works € 791.923,35)
- 2016/2017 Static tester of a steel structure into the project ZERO (Zero Emission Research Option);
- 2017 Construction manager for Supply and installation works of an integrated prototype biomass combustion system, (total amount of works € 188.149,50), into the project ZERO (Zero Emission Research Option)";
- 2016/2017 Administrative and technical reviewer (during the course of work) for the structural retrofitting and technical installations updating of an industrial building “ex Officine Scianatico- Polilab” in Bari. Total amount of project € 1.419.239,80.

4.2. Professional activities for public entities

4.2.1. Design and consalting

- 1998 Structural designer for the project of reuse of an existing building (ex Snia Viscosa), Municipality of Roma;
- 1999 Structural consultant for the seismic structural design of new buildings for social houses in Fondo gesù district, municipality of Crotone (IT) - 144 new accommodations) Total action founding £.12.000.000.000;
- 2000 Consultant as structural designer (main designer Prof. G. Tortorici) for the seismic and functional retrofitting of 17 existing social housing buildings in the municipality of Crotone (district “Fondo Gesù”), total project founds £5.500.000.000
- 1999 Designer for the structural and functional update of the bridge connecting east residential districts in the municipality of Molfetta (Bari)
- 2007 Structural designer of seismic vulnerability assessment of two bridges located in the “invaso del Locone”; commissioned by Province of Bari
- 2014 Technical and scientific consultant for ARCA Capitanata (Foggia Province Social Housing Administration) for the structural design of two base isolated buildings (social housing with 45 accommodations) named “Comparto Ortona Sud” – Italian national plan for social housing DPCM 16.07.2009 – total project founds 6.366.349,97€;
- 2017 Structural designer, workmanager and security co-ordinator (in progress) of the seismic retrofitting of the Bari Airport Passenger Station - Total design budget 323.333,46€.

4.2.2. Final project test evaluations

- 2009 Static tester in progress of “Updating of building C” at the Naval Military Navy School Officers – Taranto, on behalf of MARIGENIMIL TARANTO (Italian Navy);

- 2010 Static tester of structural update of the former ward named “Calderai”, in Taranto, on behalf of MARIGENIMIL TARANTO (Italian Navy)
- 2016/2017 Static tester in progress of a steel structure of Politecnico di Bari, concerning the project ZERO Zero Emission Research Option”;
- 2016/2017 Administrative and technical reviewer (during the course of work) of retrofitting and Technical installations updating of an industrial building “ex Officine Scianatico- Polilab” in Bari. Total amount of project € 1.419.239,80
- 2014/2017 Administrative and technical reviewer for the project “maintenance of docks’ flooring, water disposal network and reordering sub-services in the Manfredonia port”, total budget 11.400.000,00€
- 2014/2017 Static tester (in progress) for the structural elements of the project “maintenance of docks’ flooring, water disposal network and reordering sub-services in the Manfredonia port”, total project amount 11.400.000,00€
- 2016/today Static tester in progress of project for the seismic retrofitting and functional recovery of existing buildings and new ones of the Foggia hospital “OSPEDALI RIUNITI”, Foggia (total project budget 2.541.681,05€ step 1, 9.113.693,10€ step 2);

4.2.3. Consultancies

- 2010 Professional consultant for the "analysis of seismic vulnerability of the building hosting the Bank of Italy's Taranto branch" on behalf of Sapienza Università di Roma.
- 2011/today - Scientific Advisor of the Province of Taranto (Italy) - Scientific Leader on behalf of the Polytechnic of Bari at the office "Earthquake Engineering" Support for the activities of verification of structural projects with regard to their compliance with N.T.C. 2008 (art. 90 and 94 of Presidential Decree no. 380/2001 and Regional legislation):
- From 2011 Technical consultant for the prosecutor's office (Procura della Repubblica) of Taranto e Foggia as CTU (Office’s technical consultant) in structural forensic investigations.
- 2015 Consultant of National park of Alta Murgia, for the final evaluation of consolidation structural project of the farm "Masseria Filieri" (Minervino, Bari);
- 2016/2017 Consultant for the design and the preparation of the first procurement contract of the project “Museum MarTA 3.0” (total project budget € 2.507.500, cofounded by European funds (FESR), Taranto
- 2016/17 Scientific and Technical Consultancy for the Evaluation of the Three Dam Damage Vulnerability (Pertusillo, Conza and Saetta) on the behalf of the Department for development of irrigation and land transformation in Puglia, Lucania and Irpinia (Total budget € 502,536.59);
- 2017 Consultant for “Strada dei Parchi SpA” for the evaluation of seismic vulnerability of highway bridges (Italian highways A24 e A25).

4.3. Professional activities for private entities

4.3.1. Scientific consultancies

- 1999/2002 Consultant on structural analysis and design for ECOFORMA srlc (Bari) - European projects (for urban suitable requalification) “HOME” and “Cradle to Cradle”
- 2009/2010 Consultant of Soft.Lab Srl (Benevento) for developing of structural software;

- 2014 Consultant of INFOSYS CONSULTING S.r.l. (Bari) for developing structural software code;
- 2018/today Consultant of Metal.Ri SrL for new technical solutions of mixed steel and concrete structures;

4.3.2. Projects

- 2016 Structural designer for seismic vulnerability analysis of the RAI (Italian Broadcast Corporation) Building located in Rome, Via Asiago n. 3-7 called "House of the Soldier" CPRF Rome

5. Institutional services

5.1. Scientific institutional services

5.1.1. Services in doctorate's and master's schools

- | | |
|------------|--|
| 2000/2001 | Delegated (elected) of PhDs, Fellowships and equivalent Categories in the Department Board of DICAR - Politecnico di Bari; |
| 2003/2010 | Member of the Academic Board of the PhD "Civil, Environmental and Territorial Engineering", Politecnico di Bari |
| 2011/2012 | Member of the Academic Board of the PhD "Civil engineering and architecture", Politecnico di Bari |
| 2013 | Member of the Academic Board of the PhD "Architecture, innovation and heritage", Politecnico di Bari |
| 2014/2017 | Member of the Scientific and Teaching committee, 2nd level Master EuroProject "Advanced Structural design according Eurocodes (University of la Sapienza Roma, Italy); |
| 2016/today | Member of the Academic Board of the PhD "Civil Engineering and Architecture", University of Cagliari |

5.1.2. Member of final PhD defence panel

- | | |
|------|--|
| 2013 | Loughborough University (UK) <ul style="list-style-type: none"> • <i>Mohammad Khan</i> • <i>Sarha Alimari</i> |
| 2014 | Politecnico di Torino (IT) <ul style="list-style-type: none"> • <i>Accornero Federico</i> • <i>Cammarano Sandro</i> • <i>De Biagi Valerio</i> • <i>Siddique Iffat</i> • <i>Zeeshan Babar Ul Ali</i> |
| 2015 | Sapienza Università di Roma (IT) <ul style="list-style-type: none"> • <i>Li Zhi</i> • <i>Egidio Lofrano</i> • <i>Aslam Faqeer Mohammad</i> • <i>Shrestha Sujan</i> • <i>Ganesh Ram Nhamafuki</i> |
| 2015 | Università Roma 3 (IT) <ul style="list-style-type: none"> • <i>Fabio Hauagge Do Prado</i> • <i>Luisa Ottolenghi</i> • <i>Andrea Umiliaco</i> • <i>Zhihao Zhou</i> • <i>Ali Abdolali</i> |
| 2015 | Indian Institute of Engineering Science and Technology Shibpur (India) <ul style="list-style-type: none"> • <i>Bijan Kumar Roy</i> |
| 2015 | Cork University Collage (Ireland) <ul style="list-style-type: none"> • <i>Paul Cahill</i> |

5.1.3. Member of academic panels

Chairman or member of 16 committees for selection evaluation of research grants and professional contracts at the Politecnico di Bari.

5.2. Institutionals services at the Politecnico di Bari

- 2005/2007 ERASMUS project delegate at the 2nd Faculty of Engineering in Taranto, Politecnico di Bari;
- 2007 Member of Committee “Province of Taranto founds for Visiting Professor and research fellowships” at the 2nd Faculty of Engineering in Taranto, Politecnico di Bari;
- 2007/2009 Member of Committee for department library journals selection at the DIASS;
- 2009/2011 Member of the Board of Governors - Politecnico di Bari;
- 2009/2011 Member of Committee “Proposal for the new Strategic University Program”, Politecnico di Bari;
- 2009/2011 Member of Committee “New rules for Spin-off companies” Politecnico di Bari;
- 2009/2011 Delegate to relations between the 2nd Faculty of Engineering of Taranto and the University's Central Administration Offices.;
- 2009/2011 Member of Board for “fees exemption (Commission grants low 390/91)”, Politecnico di Bari;
- 2010/2014 Member of ILO2 committee (Industrial Liaison Office) of Politecnico di Bari;
- 2011/today Member of the board of directors (delegated by Politecnico di Bari) of University Spin Off “T&A TECNOLOGIA & AMBIENTE SRL”;
- 2011/today Member of the board of directors (delegated by Politecnico di Bari) of University Spin Off “AESEI s.r.l.”;
- 2009/2013 Delegate by Politecnico di Bari to the AlmaLaurea Consorzium.

5.3. Others

- 2002 Member of committee during the admission test – degree in engineering 2nd Faculty of Taranto;
- 2005/2006 Member (nominated by 2nd Faculty of Engineering) of the selection panel – admission test for the Italian National Engineering Council;
- 2006/2007 Member (nominated by 2nd Faculty of Engineering) of the selection panel – admission test for the Italian National Engineering Council;
- 2011/2012 Member (nominated by DICAR department) of the selection panel – admission test for the Italian National Engineering Council;
- 2017 Member of the Degree Award Committee of the BAT Province Engineering Council Engineering Board.

Torino, 20/01/2020

Prof. Giuseppe Carlo Marano

