



Giuseppe Carlo
Marano's CV
Curriculum vitae et studiorum

23 January 2015

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1. PERSONAL INFORMATION

Name: **Giuseppe Carlo MARANO**
Place & date of birth: **Bari (Italy) 12/03/1967**
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2. WORK EXPERIENCES

- 1994/1995** officer (national military service) in the Italian Navy (actually Reserve Officer)
- 1994/today** Freelance consultant engineer, working on private and public projects (management, seismic, and structural engineering)
- 1996/1997** young engineer at the Calcestruzzi S.P.A. (today Italcementi Group – Italian leader in concrete production) involved 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"*
- 2000/2001** Consultant for analysis and design of housebuilding structures - "Fondo Gesù", Municipality of Crotona (Italy)
- 2006/today** Consultant on analysis and design of steel-concrete structures for Metal.Ri snc
- 2008/today** consultant on structural optimization for *Soft.Lab - software partnership*
- 2008/today** consultant on bridges vulnerability analysis with IGEP srl

3. CURRENT AFFILIATION

Professor, structural design, Department of Architectural and Civil Engineering Science, **Technical University of Bari** (www.poliba.it), Via Orabona, 10 – 70126 Bari (Italy)

Visiting Professor, structural design, Hunan University (<http://www-en.hnu.edu.cn/>), Changsha, Hunan Province, China

SHORT PERSONAL AND ACADEMIC HISTORY

- 1994 - degree with honour (laurea cum laude) five years course in civil engineering, Technical University of Bari (Politecnico di Bari);
- 1995 – 1996 - civil service as Navy Officer (lieutenant);
- 1998-1999 - young concrete technologists at Calcestruzzi spa (Italian leader in concrete production);
- march 2000 - doctorate in structural engineering (xii cycle), University of Florence;
- 2000 - post-doctorate fellowship at Technical University of Bari;
- 2001 - scholarship (one year) - specialization school in “signal analysis”, University of Bari;
- june 2001/may 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”;
- 2002/2012 – assistant professor, structural engineering, Politecnico di Bari
- 2002/2003 – visiting, engineering department, Cambridge University (UK);
- 2002/2012 - member of the academic board doctorate school “environmental engineering”, Technical University of Bari;
- 2009/2011 – member of the Technical University of Bari management board
- 2009/2012 – member of the *Politecnico di Bari* ILO committee (Industrial Liaison Office)
- from 2012 – member of the academic board doctorate school “civil engineering and architecture”, Technical University of Bari;
- 2012 – Associate Professor, Structural Design, Politecnico di Bari
- 2012 – visiting and adjunct professor , School of Civil and Building Engineering, University of Loughborough (UK);
- 2013 – shortlisted at the University Collage Cork (<http://www.ucc.ie/en/>) for the position of “Chair in Civil & Environmental Engineering” at the department of Engineering
- 2013 – Italian National Certification as **Full Professor** in Structural Design (<http://abilitazione.miur.it/public/index.php>)
- 2014 – **Visiting Professor** at the Hunan University, Changsha, China - <http://www-en.hnu.edu.cn/>
- Head of “**Structural and geotechnical committee**”, Engineering Council – Province of Bari;

4. SCHOLARSHIPS

1. Italian Research Council (CNR) scholarship for six months of research activities in Cambridge (UK);
2. Scholarship for two-year post-doc research – Technical University of Bari;
3. Scholarship for “Scuola di Specializzazione in analisi del segnale”, Technical University of Bari.

5. TEACHING ACTIVITIES

2.1 Academic courses

INTERNATIONAL POSTGRADUATE COURSES

- 2012, graduate students, "**structural analysis and mechanics 4 (prestressed concrete)**", Loughborough University (UK).
- 2014, undergraduate students, "Prestressed Concrete Design", Hunan University (China)

NATIONAL UNDERGRADUATE COURSES

- 2003/2006 undergraduate (three-year degree courses) courses of **structural engineering**, modules 1 and 2, both to "civil engineering and environmental engineering" degree, Technical University of Bari;

NATIONAL POSTGRADUATE COURSES

- 2006/2013 graduate courses of **advanced in structural design**, degree in "civil engineering design and management (progettazione e gestione delle opere dell'ingegneria civile)" and "building engineering", Technical University of Bari ;
- 2006/2010 - degree in "civil engineering design and management (progettazione e gestione delle opere dell'ingegneria civile)" and "environmental engineering", Technical University of Bari;graduate courses of:
 - **Seismic engineering** (ingegneria sismica applicata al territorio)
 - **Computer aided structural analysis** (calcolo automatico delle strutture),
- 2003/2006 "structural dynamics" at the "doctorate school of environmental engineering", Technical University of Bari.
- 2012/2014 "Building construction laboratory II" (structural design for architecture) at the faculty of architecture, Technical University of Bari.

2.2 Invited for short courses or seminars at the following universities/research associations:

- Talk about "stochastic analysis of base-isolation of buildings from earthquakes" department of engineering, dynamics & vibration research group, Cambridge University (UK), February 2002; (<http://www-mech.eng.cam.ac.uk/dynvib/seminars/lent03.html>);
- Invited talk "new perspectives on structural health monitoring", study committee Aicap for concrete structures, 2010;
- lecture "performance based seismic design", 28 September 2012, College of Civil engineering, Hunan University, Changsha, Hunan (China);

2.3 2nd level master (Post Lauream) and technical seminars for engineers and technicians teaching:

- More than 15 invited technical workshops or seminars for the technical community and several Master Courses in different Universities:
- 2004/2005: "earthquake risks", 2nd level international master in "environmental policy and management" (Technical University of Bari and institut national des sciences appliquées – lion);

- 2004: "seismic engineering" master in "disaster and risk management" (Technical University of Bari);
- 2003/2005: "structural design and nondestructive testing in civil engineering", 2nd level master in "safety engineering" (Technical University of Bari) invited teaching in post-lauream masters;
- 2009/2012: "dynamic structural monitoring", the 2nd level master in "innovation in design, rehabilitation and control of structures: assessment and retrofitting in seismic areas" (master mica), university "roma tre", rome (it);
- 2012: moduls "structural health monitoring" and "monumental structures", in "international master in evaluation control and reduction of environmental seismic risk - eu-nice (eurasian university network for international cooperation in earthquakes)";

2.4 TUTORING ACTIVITIES:

PH.D. STUDENTS THAT RECEIVED THEIR DOCTORATE:

1. **Andrea Pollio**, environmental engineering doctorate school, Technical University of Bari (scuola di dottorato interpolitecnica di alta qualificazione e dottorato europeo) XVIII cycle, "modelling of a flexible marine riser behaviour in presence of slug flow regime"
2. **Sara Sgobba**, environmental engineering doctorate school, Technical University of Bari, XXI cycle, "stochastic seismic spectra";
3. **Emiliano Morrone**, environmental engineering doctorate school, Technical University of Bari, XXI cycle, "fuzzy uncertain for structural analysis";
4. **Giuseppe Quaranta**, structural engineering doctorate school (XXIII cycle), Sapienza University of Rome , (co- advisor), "optimal sensors placement and soft computing based identification methods for structural monitoring"
5. **Jennifer Avakian**, environmental engineering doctorate school, Technical University of Bari, XXIV cycle, "evolutive algorithms in structural engineering optimization and identification";
6. **Fabrizio Palmisano**, environmental engineering doctorate school, Technical University of Bari, XXIV cycle, "landslide structural vulnerability of masonry buildings.";
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 "

TUTORING IN POST-DEGREE FELLOWSHIPS:

- 2000/2001, ing. Giovanni Leuzzi - "Probabilistic analysis of sensitivity water/cement ratio relation on compression strength of concrete hpc (analisi probabilistica della sensibilità del rapporto a/c sulla resistenza a compressione di un calcestruzzo hpc)";
- 2002/2003, arc. Maria Giovanna dell'Aglio, "architectonic and structural planning for buildings subject to seismic risk";
- 2006/2007, ing. Giuseppe Palombella, "bridge seismic isoaltion (isolamento sismico dei ponti)";
- 2010/2011, ing. Floriana Petrone, "new mixed concrete/steel reticular beams"

RESEARCH PROJECTS TUTORING:

- research project: "progettazione e realizzazione di sistemi dissipativi nel recupero strutturale di strutture colpite da sisma- finanziato dalla misura (design and implementation of dissipative systems in structural restoration of structures affected by earthquake)" founded by measure 3.12 "improvement of human resources in the field of research and technological development" POR puglia 2000-2006; RESEARCH TUTOR;
- research project: "elementi strutturali innovativi per l'industrializzazione del processo edilizio", founded by por puglia 2007 – 2013, fondo sociale europeo - asse IV – capitale umano: ritorno al futuro - borse di ricerca, RESEARCH TUTOR;

TUTOR OF MORE THAN 100 GRADUATES AND POSTGRADUATE DEGREE THESIS (HERE REPORTED ONLY POSTGRADUATE ONES):

- (2007 - 2012) five degrees in environmental engineering (postgraduate);
- (2006 - 2012) 40 degrees in civil engineering design and management (postgraduate);

6. RESEARCH ACTIVITIES AND PROJECTS

3.1 main research topics

- random vibrations;
- seismic engineering;
- structural optimization;
- structural identification;
- concrete technology;
- uncertainty in structural analysis;
- • soft computing in structural design;

3.2 research projects as main investigator/scientific leader:

- reserach contract: "procedure di calcolo, verifica ed ottimizzazione delle tipologie speciali ed ordinarie di travi reticolari miste (analysis, verification and optimization of ordinary and special mixed steel/concrete reticular beams)". Project funded by metal.ri snc. For 105,000,00€; principl investigator;
- research project: rucose, founded by italcementi spa and irigom srl, "study of possible uses in concrete structural elements in recycled rubber tires"; principl investigator;
- reserach contract "progettazione ed implementazione di algoritmi di analisi delle vibrazione per analisi di qualità dei rilievi (design and implementation of algorithms for the analysis of vibration analysis for quality measurements)" founded by avangarde s.r.l., 39.000,00€. Principl investigator;
- research contract "ru.co.c.e. (rubber concrete for civil engineering) - calcestruzzi con aggiunta di gomma da riciclo per l'ingegneria civile" founded by irigom srl, 46.000,00€; principl investigator;
- research contract "nuovo sistema costruttivo (mtr) in elementi reticolari misti di acciaio e calcestruzzo per l'ingegneria strutturale (new constructive system with steel/concrete reticular elements for structural engineering", founded by metal.ri snc, 130.000,00€; principl investigator;
- research consultancy "studio di fattibilità per il monitoraggio dinamico del ponte girevole di taranto (preliminary evaluation for the dynamic monitoring of the swing bridge in taranto)" founded by direction of italian navy engineering department, 10.000,00€; scientific leader;
- contract research contribution with the dpc / reluis - network laboratory of earthquake engineering college: task1 subtask 1.1.1-1 (knowledge of existing structures), local unit scientific leader;
- research project " monitoraggio dinamico delle strutture strategiche con l'uso di tecniche soft-computing (monitoring dynamic strategic structures with the use of soft-computing techniques)", funded by "fondazione cassa di puglia", € 40.000,00€, principal investigator;
- convention - funded research between puglia region and the department of science of civil engineering and architecture (icar) "srepas - studio preliminare del patrimonio scolastico pugliese (preliminary study of the heritage school in puglia)", € 70.000,00; co-scientific leader;

- "laboratorio pubblico privato mblab2", projects founded - pon ricerca e Competitività 2007/13; industrial project leader: ibm italia; projects: agrofood analytics and healthcare analytics; Technical University of Bari involved for environmental monitoring and vibration analysis; funded 470.000; responsible of a local unit;

3.3 scientific supervisor of tree research fellowships:

- 2009 – supervisor of one research fellow (assegno di ricerca) - scientific sector icar/09 (tecnica delle costruzioni), "metodi innovativi per la stima della vita utile di strutture in cemento armato soggette a penetrazione da cloruri – analisi della vulnerabilità di strutture strategiche", Technical University of Bari;
- 2010 - supervisor of one research fellow (assegno di ricerca) - scientific sector icar/09 (tecnica delle costruzioni), "advanced soft computing based techniques to structural dynamic monitoring ", Technical University of Bari;
- 2011 - supervisor of one research fellow (assegno di ricerca) - scientific sector icar/09 (tecnica delle costruzioni), "advanced techniques for monitoring and structural diagnostics", Technical University of Bari;

3.4 selected research projects where involved as investigator:

- progetto triennale 2005-2008 – dpc/reluis; linea 2: valutazione e riduzione della vulnerabilità di edifici esistenti in c.a. bari local unit scientific leader: prof. Mauro mezzina;
- prin 2003 - sicurezza strutturale dell'edilizia muraria tradizionale e strategie di intervento. Un caso di studio in calabria: sistema informativo per il recupero del borgo storico di Laino Castello, politecnico di bari, politecnico di milano, università della calabria). National project coordinator: prof. Mauro mezzina;
- progetto pon "s.i.d.art. – diagnostica dei beni artistici cetma – inoa – elen spa - politecnico di bari - politecnico di milano - università di lecce. 2003-2005;
- prin 2004 - calcolo delle tensioni residue e dei parametri di fatica multiassiale nella fatica da contatto di rotolamento, national project coordinator prof. G. Demelio;
- progetto di ricerca: mitigazione del rischio sismico e strategie di intervento fondi della fondazione cassa di risparmio di puglia.2005-2006.
- progetto di ricerca scientifica afferente al fondo di ricerca di ateneo. 2003: riabilitazione dei manufatti d'epoca in cemento armato: diagnostica e riabilitazione. Responsabile del progetto di ricerca: prof. Mauro mezzina;

3.5 industrial and professional application of research activities:

- 2009 – scientific consulting for soft.lab srl (italian software house in structural analysis) about a preliminary analysis of possible application of evolutionary algorithms in structural design practice;
- 2009/2011 – scientific advisor of metalri snc, project "mtr" co-founded by por puglia 2007-2013 asse i linea 1.1 – azione 1.1.2 - bando "aiuti agli investimenti in ricerca per le pmi", project budget 600.000,00€;

- 2011/today – scientific advisor , provincia di taranto, seismic projects evaluation office (ufficio edilizia sismica), for “supporto alle attività di verifica dei progetti circa la loro conformità alle n.t.c. 2008” (evaluation of code application in structural projects);
- 2012 – proposing a Technical University of Bari spin off company idea (innovation, decision, environment, awareness) research transfer s.r.l.;

3.6 services to and involvement in the scientific community

3.6.A) CONGRESS EDITORIAL BOARDS

- 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>);
- member of the organization committee of italian congress of seismic engineering, anidis 2011, bari september 2011;
- member of csc2011 editorial board: the second international conference on soft computing technology in civil, structural and environmental engineering - creta, chania, september 2011 (<http://www.civil-comp.com/conf/csc11.htm#edtbrd>);
- member of csc2013 editorial board: of the third international conference on soft computing technology in civil, structural and environmental engineering (csc2013 the) cagliari, sardinia, italy 3-6 september 2013 (<http://www.civil-comp.com/conf/csc13.htm#edtbrd>);
- member of international symposium on engineering under uncertainty: safety assessment and management - january 4 to 6 2012 at besu, shibpur, india (<http://www.becs.ac.in/iseusam2012/ascomm.html>);
- member of the scientific board, “opensees days: la modellazione, il calcolo e l’analisi delle strutture in zona sismica - i convegno italiano” rome, 24-25 may 2012;
- member of the scientific committees at icacie2012 - international conference on advances in civil infrastructure engineering, <http://icacie2012.csuft.edu.cn/dct/page/65578>;

3.6.B) INTERNATIONAL RESEARCH PROJECTS EVALUATIONS:

- 1) 2009 - referee for the national research foundation in south africa to the project evaluation for the sa/germany scientific cooperation agreement;
- 2) 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;
- 3) 2010 - referee for the national center of science and technology evaluation, ministry of education and science, astana, republic of kazakhstan;
- 4) 2012 - referee for the czech science foundation - the main public funding agency in the czech republic supporting all areas of basic scientific research;

3.6.C) EDITORIAL ACTIVITIES:

- Reviewer for the following international journals:
- american society of civil engineers, journal of structural engineering
- earthquake engineering and structural dynamics

- probabilistic engineering mechanics
- engineering structures
- multiobjective and structural optimization
- structural and infrastructural engineering
- international journal of solids and structures
- international journal of mechanical sciences
- journal of the institution of engineers (india): series a

3.6.D) MINISIMPOSIUM ORGANIZATION:

- 2011: "i prodotti in acciaio nella progettazione antisismica (steel products in seismic design)", minisimposium organized for the xiv italian seismic engineering conference anidis2011 (bari, september 18-22, 2011), organized by g.c. marano and w. Salvatore;
- 2011: "monitoraggio, identificazione e diagnostica: applicazioni relative ad infrastrutture e strutture speciali (monitoring, identification and diagnostics: applications in infrastructure and special facilities)", minisimposium organized for the xiv italian seismic engineering conference anidis2011 (bari, september 18-22, 2011), organized by g. Fabbrocino, g.c. Marano, g. Monti and g. Quaranta;
- 2011: "fuzzy methods in computational dynamics", organized in the framework of the 3rd international conference on computational dynamics & earthquake engineering (compdyn2011), corfu, greece, may 26-28, 2011 by giuseppe carlo marano, michael beer and yiannis tsompanakis
- 2013: "soft computing applications in vibration control and dynamic monitoring", organized by dr g. Quaranta and prof. G.c. marano during the csc2013 - the third international conference on soft computing technology in civil, structural and environmental engineering, cagliari, sardinia, italy, september 3-6, 2013 (<http://www.civil-comp.com/conf/csc13-s01.htm>)

3.6.E) INVITED LECTURES IN INTERNATIONAL CONFERENCES:

- 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;
- 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)
- 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>)
- 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
- 2014 KOS

3.6.F) INVITED LECTURES IN UNIVERSITIES AND SCIENTIFIC INSTITUTIONS:

- 2012 – AICAP:
- 2014 – Hunan University (China)
- xxx
- 2014 – Zhejiang University City Collage (China): Special Invited Lecture

7. AWARDS

- 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.
- The paper "A comparison between different robust optimum design approaches: Application to tuned mass dampers" - Probabilistic Engineering Mechanics, Volume 25, Issue 1, January 2010, Pages 108-118, Marano, G.C.; Greco, R.; Sgobba, S.; was ranked 3rd among the Top 25 Hottest Articles published by "Probabilistic Engineering Mechanics" (period: October 2009 to September 2010);
- 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)
- The paper: "A comparison between different optimization criteria for tuned mass dampers design", Journal of Sound and Vibration, Volume 329, Issue 23, November 2010, 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)
- 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 Strctures" (period: April 2008 to June 2008)
- co-supervisor to the final degree thesis in Architecture (5 years degree) titled "Nuova Stazione AV/AC di Bari Centrale" (new high capacity/velocity Bari central station), awarded with the "Mention of honor" in the Italian Prize for Sustainable Architecture Fassa Bortolo
(http://www.premioarchitettura.it/IT/Home/commons/2014%20Brochure_IT.pdf)

8. SYNOPSIS OF SCIENTIFIC PRODUCTION

bibliometric indices (January 2015):

SCOPUS

Documents	83
Citations	367 (285 documents)
H-index	10
Co-authors	51

GOOGLE SCHOLAR

Documents	131
Citations	643
H-index	15
I10-Hindex	21

Paper Published on the following International Journals (SOURCE: SCIVERSE-SCOPUS; DATE: January 2015):

Journal name	Number of papers
Soil Dynamics and Earthquake Engineering	<u>7</u>
Engineering Structures	<u>3</u>
Journal of Sound and Vibration	<u>3</u>
Structural and Multidisciplinary Optimization	<u>3</u>
Applied Soft Computing Journal	<u>2</u>
Acta Mechanica	<u>2</u>
Earthquake Engineering and Engineering Vibration	<u>2</u>
Engineering Optimization	<u>2</u>
Mechanical Systems and Signal Processing	<u>2</u>
International Journal of Solids and Structures	<u>2</u>
International Journal of Structural Stability and Dynamics	<u>2</u>
JVC Journal of Vibration and Control	<u>2</u>
Structural Design of Tall and Special Buildings	<u>2</u>
Structural Engineering and Mechanics	<u>2</u>
Structure and Infrastructure Engineering	<u>2</u>
Archive of Applied Mechanics	<u>1</u>
Asian Journal of Civil Engineering	<u>1</u>
Computer Aided Civil and Infrastructure Engineering	<u>1</u>
Computers and Concrete	<u>1</u>
Construction and Building Materials	<u>1</u>
Earthquake Engineering and Structural Dynamics	<u>1</u>
Indian Concrete Journal	<u>1</u>
International Journal of Computational Methods	<u>1</u>
International Journal of Reliability Quality and Safety Engineering	<u>1</u>
Journal of Computing in Civil Engineering	<u>1</u>
Journal of Earthquake Engineering	<u>1</u>

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Journal of Materials in Civil Engineering (ASCE)	<u>1</u>
Journal of Structural Engineering	<u>1</u>
Journal of Structural Engineering United States	<u>1</u>
Journal of Zhejiang University Science A	<u>1</u>
Advanced Materials Research	<u>1</u>
Physica A Statistical Mechanics and Its Applications	<u>1</u>
Probabilistic Engineering Mechanics	<u>1</u>

9. TECHNOLOGICAL TRANSFER

- 2011 - Designation as inventor (under rule 19(3)) European Patent Office, Application N°.11425262.0 - 1255): "Structural Node for Steel-Concrete composite truss joint";
- 2011 - 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 - Designation as inventor (under rule 19(3)) European Patent Office, Application N°.11425268.7 -): "Concrete and steel structural node to connect beams to column";
- 2011 - 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"; Inventor and Designer of system "Thor" (<http://thor.waveng.it/Home.html>) for structural monitoring
- 2014 - Designation as inventor (submission N° MI2014A001728 in date 03.10.2014) "Sottofondo alleggerito resiliente in conglomerato cementizio con gomma riciclata da pneumatici fuori uso a ridotto rumore da calpestio" (lightweight resilient cement substrate with recycled rubber from discarded tires to reduced footfall sound) for ITALCEMENTI S.p.A.

10. GRANT SUPPORT (AS PRINCIPAL INVESTIGATOR OR AS NOTED)

Title	Sponsor	Amount	period
Design and project of innovative dissipative devices – PON measure 3.12	Regione Puglia	18.000,00 €	2004/2006
Innovative concrete/steel beam elements	Metal.Ri snc	105.000,00 €	2006/2009
Use of recycled rubber tires in concrete mixture	Irigon	60.000,00 €	2009/2011
Vibration control in rails using TMD	Avangarde srl	45.000,00 €	2009/2011
Innovative concrete/steel mixed structure for civil building construction	Metal.Ri snc	650.000,00 €	2009/2011
Monitoring of Swing Bridge of Taranto	Italian Military Navy	10.000,00€	2012/13
Project RELUIS 3 Italian Seismic Laboratory web	Consorzio RELUIS	40.000,00€	2012/14

11. PUBLICATIONS

International journals

1. Morga M., Marano G.C., "Optimization criteria of TMD to reduce vibrations generated by the wind in a slender structure", Journal of Vibration and Control, 2014, Vol. 20(16), 2404-2416
2. G. Acciani, A. Abrescia, G.C. Marano, "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, (2014), 218-233
3. Marano, Giuseppe Carlo; Acciani, Giuseppe; Fiore, Alessandra; Abrescia, Angela; , Integration Algorithm for Covariance Nonstationary Dynamic Analysis of SDOF Systems Using Equivalent Stochastic Linearization, International Journal of Structural Stability and Dynamics, 2014, World Scientific Publishing Company
4. Acciani G., Abrescia A, Di Modugno F. and Marano G.C., Numerical algorithm for non-stationary covariance analysis of nonlinear mechanical system using equivalent linearization, Advances in Computer Science and Engineering, (2014) Vol. 13 N.1, pagg 27-49
5. Greco R, Marano G.C., "Identification of parameters of Maxwell and Kelvin-Voigt generalized models for fluid viscous dampers", Journal of Vibration and Control, July 3, 2013, doi:10.1177/1077546313487937
6. Quaranta, G., Fiore, A., Marano, G.C., "Optimum design of prestressed concrete beams using constrained differential evolution algorithm", Structural and Multidisciplinary Optimization, 2013, pp. 1-13 (in press)
7. 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, Construction and Building Materials, Volume 48, 2013, Pages 137-143
8. M. Morga, G.C. Marano, "Optimization criteria of TMD to reduce vibrations generated by the wind in a slender structure", Journal of Vibration and Control, 2013 (online first) DOI: 10.1177/1077546313478296
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