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 Occupational field Research/Academy/Policy



A. ACADEMIC AND PROFESSIONAL PREPARATION

Sapienza University of Rome	Major: Civil Engineering	Laurea (MSc. eq.)	2003
Sapienza University of Rome	Major: Transportation and infrastructures	Ph.D.	2008
Universität Göttingen	Area: Infrastructure systems	PostDoc	2010-11
Sapienza University of Rome	Area: Energy harvesting	PostDoc	2011-14

B. APPOINTMENTS

2017-	Programme Officer, European Commission – Joint Research Centre (JRC)
2012-'17	Co-founder and partner, StroNGER spa (Structures of the Next Generation Energy Harvesting and Resilience).
2010-'14	Research Fellow (PostDoc), Department of Structural and Geotechnical Engineering - Sapienza University of Rome. Research on dependability and energy harvesting for structures and infrastructures, offshore wind turbines and sustainability.
2009-'10	Postdoctoral Fellow (German Academic Exchange Service), Institut für Numerische und Angewandte Mathematik, Universität Göttingen, Germany. Implementation of the LinTim package for evaluating delay management strategies in public transportation.
2008-'09	Associate Researcher, Department of Structural and Geotechnical Engineering - Sapienza University of Rome. Research on the structural safety and performance of Offshore Wind Turbines.
2005-'07	Professional Engineer (part-time) at Co.Re. Ingegneria Srl., Rome.
2004-'07	PhD Student, Department of Hydraulics, Transportation and Roads - Sapienza University of Rome. Research on a stochastic simulation model for the real time control of public transport.
2004-'05	Research Consultant / Associate Researcher in the field of serviceability analysis for the feasibility of a long span suspension bridge at the Department of Structural and Geotechnical Engineering - Sapienza University of Rome.

C. PRODUCTS

More than 90 publications in peer reviewed journals and conferences. Selected publications:

Gkoumas, K., Tsakalidis, A. (2019) "A framework for the taxonomy and assessment of new and emerging transport technologies and trends", *Transport*, Vol. 34, No. 1 (scheduled for publication)

Petrini, F. Gkoumas, K. (2018) "Piezoelectric energy harvesting from vortex shedding and galloping induced vibrations inside HVAC ducts", *Energy and Buildings*, Vol. 158, pp. 371–383

Gkoumas, K., Di Santo, C., Bontempi, F. (2016) "Risk analysis for severe traffic accidents in long road tunnels", *International Journal of Forensic Engineering*, Vol. 3, No. 1-2, pp. 106-126

Milana, G., Olmati, P., Gkoumas, K., Bontempi, F. (2015) "Ultimate capacity of diagrid systems for tall buildings in the nominal configuration and the damaged state", *Periodica Polytechnica Civil Engineering*, Vol.59, No. 3, pp. 381 - 391

Olmati, P., Petrini, F., Gkoumas, K. (2014) "Fragility analysis for the Performance-Based Design of cladding wall panels subjected to blast load", *Engineering Structures*, Vol. 78, pp. 112-120

Olmati, P., Gkoumas, K., Brando, F., Cao, L. (2013) "Consequence-based robustness assessment of a steel truss bridge", *Steel and Composite Structures, An International Journal*, Vol. 14, No. 4, pp. 379-395

Sgambi, L., Gkoumas, K., Bontempi, F. (2012) "Genetic Algorithms for the Dependability Assurance in the Design of a Long Span Suspension Bridge", *Computer-Aided Civil and Infrastructure Engineering* Vol. 27, No. 9, pp. 655-675

Petrini, F., Gkoumas, K., Zhou, W. and Li, H. (2012) "Multi-level structural modeling of an offshore wind turbine", *Ocean Systems Engineering, An International Journal*, Vol.2, No.1, pp. 1-16

Bellei, G., Gkoumas, K. (2010). "Transit vehicles' headway distribution and service irregularity", *Public Transport*, Vol. 2, No 4, pp. 269-289

Bontempi, F., Gkoumas, K., Arangio, S. (2008). "Systemic approach for the maintenance of complex structural systems", *Structure & Infrastructure Engineering - Maintenance, Management, Life-Cycle Design & Performance*, Vol. 4, No. 2, pp. 77-94

D. SYNERGISTIC ACTIVITIES

Organizer of the 2016 DCEE (Design in Civil and Environmental Engineering) Workshop, Sapienza University of Rome, October 6-8, 2016.

Organizer of the Special Session "Energy harvesting in Bridges and Transportation infrastructure Networks" at the IABMAS 2012, Stresa, Lake Maggiore, Italy, July 8-12, 2012.

Organizer of the Special Session "Progressive Collapse and Structural Robustness: An International Perspective" at the ASCE/SEI Structures Congress, Pittsburgh, Pennsylvania, May 2-4, 2013.

Development of a software ("Simes") for the performance assessment of public transit, used for research in the Department of Hydraulics Transportation and Roads of the Sapienza University of Rome.

X Visiting Researcher (May 2012 - June 2012, 4 weeks) at the Linear and Nonlinear Dynamics and Vibrations Laboratory (LNDVL), University of Illinois at Urbana-Champaign (USA).

Visiting Researcher (November 2010 - December 2010, 4 weeks) at the Center of Structural Monitoring and Control of the Harbin Institute of Technology (PRC).

Co-founder and Partner since December 2012 at the start-up company (Research Spin-off) StroNGER S.r.l (Structures of a New Generation: Energy harvesting and Resilience) in Rome (Italy).

E. COLLABORATORS AND OTHER AFFILIATIONS

(i) Collaborators and co-editors

S. Arangio¹, F. Bontempi¹, G. Bellei², F. Brando³, L. Cao³, C. Crosti¹, H. Li⁵, S. Manenti⁶, P. Olmati¹, F. Petrini¹, A. Schoebel⁷, L. Sgambi⁸, W. Zhu⁵, Clay J. Naito⁹

(ii) Graduate advisors and postdoctoral sponsors

Franco Bontempi¹, Giuseppe Bellei^{2*} (*passed away in December 2009), Anita Schoebel⁷.

(iii) Thesis advisor and postgraduate-scholar sponsor

Co-advisor of "Laurea Specialistica" theses (M.Sc.) at the Sapienza University of Rome for the following candidates: Monica Capobelli, Carmine Disanto, Sara Ferri, Giulia Milana and Oriana de Gaudenzi,

¹ Department of Structural and Geotechnical Engineering, Sapienza University of Rome, Rome (Italy).

² Department of Hydraulics, Transportation and Roads, Sapienza University of Rome, Rome (Italy).

³ Thornton Tomasetti, New York, N.Y. (USA).

⁵ Center of Structural Monitoring and Control, Harbin Institute of Technology, Harbin (PRC).

⁶ Department of Civil Engineering and Architecture, University of Pavia, Pavia (Italy).

⁷ Institute for Numerical and Applied Mathematics, University of Goettingen, Goettingen (Germany).

⁸ Department of Civil and Environmental Engineering, Politecnico di Milano, Milan (Italy).

⁹ Department of Civil and Environmental Engineering, Lehigh University, Bethlehem (USA)