Decreto Rettore Università di Roma "La Sapienza" n 779/2018 del 16/3/2018

Paolo Franchin
Curriculum Vitae

Place Rome
Date March 30th, 2018

Part I – Education

Type	Year	Institution	Notes (Degree, Experience,…)
University graduation	1997	Sapienza	Laurea quinquennale in Ingegneria Civile (Strutture), 110/110 e lode | Five years degree in Civil Structural Engineering, with honors
Post-graduate studies	2001	University of California Berkeley	Master of Science in Structural Engineering (GPA 3.98/4.00)
PhD	2002	Sapienza	Dottorato in Ingegneria delle Strutture | PhD in Structural Engineering
Licensure	1998	Ordine degli Ingegneri della Provincia di Roma | Charter of Professional Engineers of Rome	Professional Engineer

Part II – Appointments

IIA – Academic Appointments

Start	End	Institution	Position
2015	Present	Sapienza	Professore Associato settore ICAR09 | Associate professor in Structural design
2006	2015	Sapienza	Ricercatore settore ICAR09 | Assistant professor in Structural design
2012	Present	Istituto Universitario di Studi Superiori di Pavia, European School in Seismic Risk Reduction	Faculty member
2013	Present	Sapienza	Collegio del dottorato di Ingegneria Strutturale e Geotecnica | Committee, Doctoral program in Structural engineering and Geotechnics
2012	2013	Sapienza	Collegio del dottorato di Ingegneria delle Strutture | Committee, Doctoral program in structural engineering
2012	Present	Sapienza	Giunta del Dipartimento di Ingegneria Strutturale e Geotecnica | Department council (restricted, elective)
2018	Present	Sapienza	Giunta della Facoltà di Architettura | Faculty council (restricted, elective)
2012	2015	Sapienza	Giunta della Facoltà di Architettura | Faculty council (restricted, elective)
2012	2014	Sapienza	Commissione Ricerca di Ateneo | University research committee
2006	2012	Sapienza	Delegato del Preside al Servizio di Orientamento e Tutorato, Facoltà di Architettura (fino al 2010 "Valle Giulia") | Delegate for the Dean to the University Committee on students affairs and tutoring

IIB – Other Appointments

Start	End	Institution	Position
2018	Present	NEN Dutch Standardization Body (under European Commission Mandate 515)	Project Team 6 Leader (Revision of Eurocode 8 Part 2 "Seismic Design of Bridges")
2018	-	NAM, The Netherlands	Expert Panel member (Revision of the v5 Induced seismic risk study for the Groningen gas filed area)
2018	Present	Soil Dynamic and Earthquake Engineering (Elsevier)	Editorial Board member
2016	Present	Sustainable and Resilient Infrastructures (Taylor and Francis)	Editorial Board member
2015	Present	Progettazione Sismica	Editorial Board member
2015	-	NAM, The Netherlands	Expert Panel member (Revision of the v5 Induced seismic risk study for the Groningen gas filed area)
2017	Present	International Federation of Structural Concrete (*fib*)	Task Group 10.1 "Model Code 2020", Member of Action group on seismic design and assessment
2017	-	NEN Dutch Standardization Body	Expert Panel member (Revision of the Dutch Seismic Code)
2015	2018	NEN Dutch Standardization Body (under European Commission Mandate 515)	Project Team 3 Member (Revision of Eurocode 8 Part 3 "Seismic Assessment and Retrofit of Buildings")
2011	2013	Consiglio Nazionale delle Ricerche, Commissione Norme	Member of the drafting group for: Istruzioni CNR/DT212-2013 "Istruzioni per la Valutazione Affidabilistica della Sicurezza Sismica di Edifici Esistenti"
2009	2011	International Federation of Structural Concrete (*fib*)	Task Group 7.7 "Probabilistic performance-based seismic design", Member
2008	2015	International Federation of Structural Concrete (*fib*)	Commission 7 Seismic Design, Member
2003	2005	International Federation of Structural Concrete (*fib*)	Task Group 7.4 "Seismic design and assessment procedures for bridges", Member

Part III – Teaching experience

Year	Institution	Lecture/Course
From 2006	Sapienza, Facoltà di Architettura	Laboratorio di Progettazione Strutturale | Structural design
From 2012	Sapienza, Facoltà di Architettura	Costruzioni in zone sismiche | Earthquake resistant design
2016	EUCENTRE, Pavia, Italy	Progetto di ponti nuovi e adeguamento di ponti esistenti per azioni sismiche | Seismic design, assessment and retrofit of birdges (with P.E.Pinto and D.Cardone)
2001, 2003, 2005, 2008, 2011	Istituto Universitario di Studi Superiori di Pavia, European School in Seismic Risk Reduction	Seismic Reliability Analysis of Structures (with P.E.Pinto)
2009	Sapienza, Dottorato Ingegneria delle Strutture	Affidabilità sismica delle strutture | Seismic Reliability Analysis of Structures (with P.E.Pinto and M.Ciampoli)
2003-2008	Università degli studi di Roma Tre	La sicurezza delle costruzioni, le azioni e lo loro combinazioni (nell'ambito del Master di II livello MICA) | Structural safety, actions and combinations (with P.E.Pinto)
2007	Università degli studi di L'Aquila	Elementi di sismologia e criteri di progettazione antisismica (nell'ambito del Master di II livello MIA) | Engineering seismology and seismic design (with P.E.Pinto)
2004	Università degli studi di Bologna	La progettazione antisismica delle strutture e i sistemi innovativi di mitigazione dell'azione sismica (nell'ambito del Master di II livello "L'ingegneria strutturale nel III millennio") | Seismic design and innovative seismic protection systems (with P.E.Pinto)

Part IV - Society memberberships, Awards and Honors

Year	Title
2003-Present	International Federation of Structural Concrete (*fib*)
2018	Invited lecture at the BRGM, Orleans, France
2016	Invited lecture at the Technical University of Munich, Germany
2016	Invited lecture at the ETH Zurich, Switzerland
2015	Invited lecture at the Universidad de Los Andes, Bogota, Colombia
2013	Invited lecture at the University of Canterbury, Christchurch, New Zealand
2011	Invited lecture at the EPFL, Lausanne, Switzerland

Part V - Funding Information [grants as PI-principal investigator or I-investigator] [1]

Year	Title	Program	Grant value
2018	RINTC "Rischio implicito NTC" **PI**	Progetto Esecutivo DPC-Reluis 2014-2018	€ 27.450,00
2015	Progetto "Increased Flooding Vulnerability of the Built Environment due to Earthquake-induced Damage" **PI**	Sapienza Ricerca di Ateneo 2015	€32.500,00
2014-2017	Task RS6 "Rischio sismico delle reti e sistemi di distribuzione" **PI**	Progetto Esecutivo DPC-Reluis 2014-2018	€30.000,00 + €25.500,00 + €30.500,00 + €27.450,00
2012	Attribuzione fondi per assegni di ricerca a responsabili scientifici "Under 40" **PI**	Bando di Ateneo	€24.000,00
2011	"Modulo Abitativo Riciclabile Autocostruito Minimo Ecologicamente Ottimizzato" **PI**	Ricerca di Ateneo	€11.000,00
2011-2013	Task 2.2.3 "Impianti industriali, nucleari e lifeline" **PI**	Progetto Esecutivo DPC-Reluis 2010-2013	€18.294,00 + €11.251,00 + €11.560,00
2011-2013	Task RS4 "Impianti industriali, nucleari e lifeline" **I**	Progetto Esecutivo DPC-Reluis 2010-2013	€60.000,00
2009-2013	Collaborative Project SYNER-G "Systemic Seismic Vulnerability and Risk Analysis for Buildings, Lifeline Networks and Infrastructures Safety Gain" (Contract 244061) **I** poi **PI**	EU-FP7	€327.100,00
2004-2007	Integrated Project LESSLOSS "Risk Mitigation for Earthquakes and Landslides" (Contract 505448) **I**	EU-FP6	€160.000,00
2005-2008	Linea 3 "Valutazione e riduzione del rischio sismico dei ponti esistenti"	Progetto Esecutivo DPC-Reluis 2005-2008	€210.000,00
2007	PRIN "Valutazione probabilistica in tempo reale della transitabilità post-sisma di opere da ponte" **I**	MIUR-PRIN	€70.000,00
2001-2004	Project SPEAR "Seismic Performance Assessment and Retrofit" (Contract G6RD-CT-2001-00525) **I**	EU-FP5	€78.000,00

[1] Adopted defnition: "A principal investigator (PI) is the holder of an independent grant administered by a university and the lead researcher for the grant project". In the table "PI" is used when the grant was under my name, "I" when I was part of the research unit led by someone else.

Part VI – Research Activities

Keywords	Brief Description
RC Buildings	Performance-based seismic assessment and design of buildings and bridges. Code procedures as well as advanced probabilistic methods to assess seismic performance of existing structures (e.g. papers 2, 3, 4, 5, 6, 7 and 15) or design new structures to meet predefined performance probabilities (e.g. papers 1, 10, 11 and 13), accounting for all relevant uncertainties.
Bridges	
Infrastructural systems/lifelines	Risk and resilience analysis of structural and infrastructural systems (e.g., papers 8, 9, 12 and 14)
Risk/resilience	

Part VII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international, with IF]	32	Scopus	2000	2018
Papers [international, without IF]	1	Scholar (journal waiting for IF)	2015	
Papers [national]	2	Scholar	2009	2012
Papers [conferences]	63	Scholar	2000	2018
Books [scientific]	1	Scholar	2004	
Books [teaching]	1	Scholar	2009	
Book chapters [scientific]	16	Scholar	2000	2018

Total Impact factor	50.235[2]
Total Citations	670 Scopus/ 1476 Scholar
Average Citations per Product	8.9 Scopus/ 12.6 Scholar
Hirsch (H) index	16 Scopus/ 22 Scholar (accounts for books)
Normalized H index*	16/18=0.888 Scopus (first paper in the year 2000)

*H index divided by the academic seniority.

Part VIII – Selected Publications

List of the publications selected for the evaluation:

1. Franchin, P., Petrini, F., & Mollaioli, F. (2018). Improved risk-targeted performance-based seismic design of reinforced concrete frame structures. Earthquake Engineering & Structural Dynamics, 47(1), 49-67.
2. Lucchini, A., Franchin, P., & Mollaioli, F. (2017). Median floor acceleration spectra of linear structures with uncertain properties. Earthquake Engineering & Structural Dynamics, 46(12), 2055-2060.
3. Lucchini, A., Franchin, P., & Kunnath, S. (2017). Failure simulation of shear-critical RC columns with non-ductile detailing under lateral load. Earthquake Engineering & Structural Dynamics, 46(5), 855-874.
4. Lucchini, A., Franchin, P., & Mollaioli, F. (2017). Uniform hazard floor acceleration spectra for linear structures. Earthquake Engineering & Structural Dynamics, 46(7), 1121-1140.
5. Lucchini, A., Franchin, P., & Mollaioli, F. (2016). Probabilistic seismic demand model for nonstructural components. Earthquake Engineering & Structural Dynamics, 45(4), 599-617.
6. Franchin, P., Lupoi, A., Noto, F., & Tesfamariam, S. (2016). Seismic fragility of reinforced concrete girder bridges using Bayesian belief network. Earthquake Engineering & Structural Dynamics, 45(1), 29-44.
7. Borzi, B., Ceresa, P., Franchin, P., Noto, F., Calvi, G. M., & Pinto, P. E. (2015). Seismic vulnerability of the Italian roadway bridge stock. Earthquake Spectra, 31(4), 2137-2161.
8. Franchin, P., & Cavalieri, F. (2015). Probabilistic assessment of civil infrastructure resilience to earthquakes. Computer-Aided Civil and Infrastructure Engineering, 30(7), 583-600.
9. Esposito, S., Iervolino, I., d'Onofrio, A., Santo, A., Cavalieri, F., & Franchin, P. (2015). Simulation-based seismic risk assessment of gas distribution networks. Computer-Aided Civil and Infrastructure Engineering, 30(7), 508-523.
10. Franchin, P., & Cavalieri, F. (2014). Seismic performance-based design of flexible earth-retaining diaphragm walls. Engineering Structures, 78, 57-68.
11. Franchin, P., & Pinto, P. E. (2014). Performance-based seismic design of integral abutment bridges. Bulletin of earthquake engineering, 12(2), 939-960.
12. Cavalieri, F., Franchin, P., Buriticá Cortés, J. A., & Tesfamariam, S. (2014). Models for seismic vulnerability analysis of

[2] Sum of the corresponding journal IF, in Web of Science, for the year of publication or the closest one (e.g. 2016 for 2017 or 2018), limited to the 32 journal papers in Scopus, out of the 35 journal papers. Same as for "Allegato C". See also table in next page.

power networks: comparative assessment. Computer-Aided Civil and Infrastructure Engineering, 29(8), 590-607.
13. Franchin, P., & Pinto, P. E. (2012). Method for probabilistic displacement-based design of RC structures. Journal of Structural Engineering, 138(5), 585-591.
14. Cavalieri, F., Franchin, P., Gehl, P., & Khazai, B. (2012). Quantitative assessment of social losses based on physical damage and interaction with infrastructural systems. Earthquake Engineering & Structural Dynamics, 41(11), 1569-1589.
15. Pinto, P. E., & Franchin, P. (2010). Issues in the upgrade of Italian highway structures. Journal of Earthquake Engineering, 14(8), 1221-1252.

Impact factor values are reported for all papers, not just those in the list above, in the table below.

#	Title	Journal	Year	IF	year (IF)
1	Improved risk-targeted performance-based seismic design of reinforced concrete frame structures	Earthquake Engineering & Structural Dynamics	2018	1.974	2016
2	Median floor acceleration spectra of linear structures with uncertain properties	Earthquake Engineering & Structural Dynamics	2017	1.974	2016
3	Failure simulation of shear-critical RC columns with non-ductile detailing under lateral load	Earthquake Engineering & Structural Dynamics	2017	1.974	2016
4	Uniform hazard floor acceleration spectra for linear structures	Earthquake Engineering & Structural Dynamics	2017	1.974	2016
5	Probabilistic seismic demand model for nonstructural components	Earthquake Engineering & Structural Dynamics	2016	1.974	2016
6	Seismic fragility of reinforced concrete girder bridges using Bayesian belief network	Earthquake Engineering & Structural Dynamics	2016	1.974	2016
7	Seismic vulnerability of the Italian roadway bridge stock	Earthquake Spectra	2015	2.298	2015
8	Probabilistic assessment of civil infrastructure resilience to earthquakes	COMPUTER-AIDED CIVIL AND INFRASTRUCTURE ENGINEERING	2015	5.288	2015
9	Simulation-Based Seismic Risk Assessment of Gas Distribution Networks	COMPUTER-AIDED CIVIL AND INFRASTRUCTURE ENGINEERING	2015	5.288	2015
10	Seismic performance-based design of flexible earth-retaining diaphragm walls	ENGINEERING STRUCTURES	2014	1.838	2014
11	Performance-based seismic design of integral abutment bridges	Bulletin of Earthquake Engineering	2014	1.884	2014
12	Models for Seismic Vulnerability Analysis of Power Networks: Comparative Assessment	COMPUTER-AIDED CIVIL AND INFRASTRUCTURE ENGINEERING	2014	4.925	2014
13	Method for probabilistic displacement-based design of RC structures	JOURNAL OF STRUCTURAL ENGINEERING	2012	1.206	2012
14	Quantitative assessment of social losses based on physical damage and interaction with infrastructural systems	Earthquake Engineering & Structural Dynamics	2012	1.898	2012
15	Issues in the upgrade of Italian highway structures	Journal of Earthquake Engineering	2010	0.843	2010
16	Confidence factor?	Journal of Earthquake Engineering	2010	0.843	2010
17	Allowing traffic over mainshock-damaged bridges	Journal of Earthquake Engineering	2009	0.587	2009
18	Increased accuracy of vector-IM-based seismic risk assessment?	Journal of Earthquake Engineering	2008	0.730	2008
19	A scalar damage measure for seismic reliability analysis of RC frames	Earthquake Engineering & Structural Dynamics	2007	1.386	2007
20	Seismic fragility analysis of structural systems	JOURNAL OF ENGINEERING MECHANICS	2006	0.965	2006
21	Seismic loss estimation by efficient simulation	Journal of Earthquake Engineering	2006	0.798	2006
22	On the role of road networks in reducing human losses after earthquakes	Journal of Earthquake Engineering	2006	0.798	2006
23	Seismic design of bridges accounting for spatial variability of ground motion	Earthquake Engineering & Structural Dynamics	2005	0.788	2005
24	Seismic fragility analysis of 3D structures	Structural Safety	2004	0.714	2004
25	Response sensitivity for nonlinear beam-column elements	JOURNAL OF STRUCTURAL ENGINEERING	2004	0.774	2004
26	Reliability of uncertain inelastic structures under earthquake excitation	JOURNAL OF ENGINEERING MECHANICS	2004	0.743	2004
27	Seismic fragility of reinforced concrete structures using a response surface approach	Journal of Earthquake Engineering	2003	0.474	2003
28	Seismic risk evaluation of RC bridge structures	Earthquake Engineering & Structural Dynamics	2003	0.734	2003
29	Model correction factor method for reliability problems involving integrals of non-Gaussian random fields	Probabilistic Engineering Mechanics	2002	0.972	2002
30	Methods for seismic risk analysis: State of the art versus advanced state of the practice	Journal of Earthquake Engineering	2002	0.474	2003
31	On the accuracy of simplified methods for the analysis of isolated bridges	Earthquake Engineering & Structural Dynamics	2001	0.734	2003
32	Post-buckling analysis of corrugated panels in the presence of multiple interacting modes	Thin-Walled Structures	2000	0.409	2000
			IF totale	50.235	
			IF medio	1.570	

Part IX– Complete list of publications

Books, book chapters, technical reports and manuals

1. Cavalieri F, Franchin P, Gehl P and D'Ayala, D (2017) Bayesian Networks and Infrastructure Systems: Computational and Methodological Challenges. DOI:10.1007/978-3-319-52425-2_17. pp.385-415. Risk and Reliability Analysis: Theory and Applications. In Honor of Prof. Armen Der Kiureghian, Springer Series in Reliability Engineering - ISBN:978-3-319-52424-5
2. Pinto PE and Franchin P (2016) Probabilistic Seismic Assessment of Existing Buildings: The CNR-DT212 Italian Provisions. DOI:10.1007/978-3-319-29713-2_7. pp 125-140. In Gardoni, Paolo, LaFave, James M. (Eds.), Multi-hazard Approaches to Civil Infrastructure Engineering, Springer Series in Reliability Engineering - ISBN 978-3-319-29713-2
3. Pinto PE and Franchin P (2015) Existing Buildings: The New Italian Provisions for Probabilistic Seismic Assessment, in A. Ansal (ed.), Perspectives on European Earthquake Engineering and Seismology, Geotechnical, Geological and Earthquake Engineering 34, ISBN 978-3-319-07117-6, DOI 10.1007/978-3-319-07118-3 (Keynotes from the 15th European Conference on Earthquake Engineering, Istanbul, August 2014)
4. Franchin P (2014) Framework for Systemic Seismic Vulnerability Analysis of Complex Systems (pp. 23-56), in K.Pitilakis et al. (eds.) SYNER-G: Systemic Seismic Vulnerability and Risk Assessment of Complex Urban, Utility, Lifeline Systems and Critical Facilities, Geotechnical, Geological and Earthquake Engineering 31, ISBN 978-94-017-8834-2, DOI 10.1007/978-94-017-8835-9_2. Springer Science+Business Media Dordrecht
5. Weatherill G, Crowley H, Esposito S, Iervolino I, Franchin P and Cavalieri F (2014) Framework for Seismic Hazard Analysis of Spatially Distributed Systems (pp. 57-88), in K.Pitilakis et al. (eds.) SYNER-G: Systemic Seismic Vulnerability and Risk Assessment of Complex Urban, Utility, Lifeline Systems and Critical Facilities, Geotechnical, Geological and Earthquake Engineering 31, ISBN 978-94-017-8834-2, DOI 10.1007/978-94-017-8835-9_3. Springer Science+Business Media Dordrecht
6. Cavalieri F, Franchin P, Pinto PE (2014) Application to SelectedTransportation and Electric Networks in Italy (pp. 301-330), in K.Pitilakis et al. (eds.) SYNER-G: Systemic Seismic Vulnerability and Risk Assessment of Complex Urban, Utility, Lifeline Systems and Critical Facilities, Geotechnical, Geological and Earthquake Engineering 31, ISBN 978-94-017-8834-2, DOI 10.1007/978-94-017-8835-9_10. Springer Science+Business Media Dordrecht
7. Lupoi A, Cavalieri F, Franchin P (2014) Application to a Network of Hospitals at Regional Scale (pp. 331-346), in K.Pitilakis et al. (eds.) SYNER-G: Systemic Seismic Vulnerability and Risk Assessment of Complex Urban,

Utility, Lifeline Systems and Critical Facilities, Geotechnical, Geological and Earthquake Engineering 31, ISBN 978-94-017-8834-2, DOI 10.1007/978-94-017-8835-9_10. Springer Science+Business Media Dordrecht

8. Cavalieri F, Franchin P, Pinto PE (2014) Fragility Functions of Electric Power Stations (pp. 157-185), in K.Pitilakis et al. (eds.) SYNER-G: Typology Definition and Fragility Functions for Physical Elements at Seismic Risk, Geotechnical, Geological and Earthquake Engineering 27, ISBN 978-94-007-7871-9, DOI 10.1007/978-94-007-7872-6_6. Springer Science+Business Media Dordrecht
9. Lupoi A, Cavalieri F, Franchin P (2014) Component Fragilities and System Performance of Health Care Facilities (p357-384), in K.Pitilakis et al. (eds.) SYNER-G: Typology Definition and Fragility Functions for Physical Elements at Seismic Risk, Geotechnical, Geological and Earthquake Engineering 27, ISBN 978-94-007-7871-9, DOI 10.1007/978-94-007-7872-6_12. Springer Science+Business Media Dordrecht
10. Calvi GM, Pinto PE, Franchin P (2013) Seismic design practice in Italy, in Bridge Engineering Handbook 2nd edition: Seismic design, Editors: Chen W-F and Duan L, CRC-Press, ISBN 9781439852187
11. Franchin P and Cavalieri F (2013) Seismic vulnerability of a complex interconnected infrastructure, in Handbook of seismic risk analysis and management of civil infrastructure systems (p465-513), Editors: S. Tesfamariam and K. Goda, Woodhead Publishing Ltd, Cambridge, UK, ISBN 0-85709-268-5
12. Pinto PE, Bazzurro, P, Elnashai A, Franchin P, Gencturk B, Gunay S, Haukaas T, Mosalam K, Vamvatsikos D (2012) Probabilistic Performance-Based Seismic Design. fib Bulletin 68
13. **Pinto PE, Franchin P and Lupoi A (2009) Valutazione e Consolidamento Sismico dei Ponti Esistenti, (Seismic Assessment and Upgrading of Existing Bridges, in Italian) Design Handbook, IUSSPress, Pavia, ISBN 978-88-6198-036-5.**
14. Lupoi G, Franchin P, Lupoi A, Pinto PE and Calvi GM (2008) Probabilistic seismic assessment for hospitals and complex-social systems, Rose School Tech.Rep 2008/02, IUSSPress, Pavia, ISBN 978-88-6198-017-4
15. Pinto PE and Franchin P (2007) Contributions to Chapters 7 ("Design for spatial variability of ground motion") and 10 ("Assessment of existing bridges") of fib Bulletin on Seismic design, assessment and retrofit of bridges.
16. Pinto PE and Franchin P (2007) Probabilistic seismic risk assessment of road networks: a decision basis for transitability of bridges in the aftermath of a damaging earthquake, LessLoss Tech. Rep. 130.
17. Pinto PE, Franchin P and Lupoi A (2006) State of the art on methods for seismic risk assessment of road networks, LessLoss Tech. Rep. 79.
18. **Pinto PE, Giannini R and Franchin P (2004) Seismic reliability analysis of structures, IUSSPress, Pavia, ISBN 88-7358-017-3.**

Journal papers

1. Franchin P, Petrini F, Mollaioli F (2017) Improved Risk-targeted Performance-based Seismic Design of Reinforced Concrete Frame Structures, Earthquake Engineering and Structural Dynamics. DOI:10.1002/eqe.2936
2. Lucchini A, Franchin P, Mollaioli F (2017) Median floor acceleration spectra of linear structures with uncertain properties, Earthquake Engineering & Structural Dynamics. DOI:10.1002/eqe.2899
3. Lucchini A, Franchin P, Mollaioli F (2016) Uniform hazard floor acceleration spectra for linear structures, Earthquake Engineering & Structural Dynamics. DOI:10.1002/eqe.2847
4. Lucchini A, Franchin P, Kunnath S (2016) Failure simulation of shear-critical RC columns with non-ductile detailing under lateral load, Earthquake Engineering & Structural Dynamics. DOI:10.1002/eqe.2836
5. Cavalieri F, Franchin P, Giovinazzi S (2016): "Earthquake- altered flooding hazard induced by damage to storm water systems", Sustainable and Resilient Infrastructure, DOI: 10.1080/23789689.2016.1178560
6. Lucchini A, Franchin P, Mollaioli F (2015) "Probabilistic seismic demand model for nonstructural components" Earthquake Engineering & Structural Dynamics. DOI: 10.1002/eqe.2674
7. Franchin P, Lupoi A, Noto F, and Tesfamariam S (2015) "Seismic Fragility of Reinforced Concrete Girder Bridges Using Bayesian Belief Network." Earthquake Engineering & Structural Dynamics. doi:10.1002/eqe.
8. Borzi B, Ceresa P, Franchin P, Noto F, Calvi GM and Pinto PE (2014) "Seismic Vulnerability of the Italian Roadway bridge stock" Earthquake Spectra,. http://dx.doi.org/10.1193/070413EQS190M
9. Esposito E, Iervolino I, d'Onofrio A, Santo A, Cavalieri F, Franchin P (2014) "Simulation-based seismic risk assessment of gas distribution networks" Computer Aided Civil And Infrastructure Engineering, DOI: 10.1111/mice.12092
10. Franchin P and Cavalieri F (2014) "Seismic performance-based design of flexible earth-retaining diaphragm walls" Engineering Structures, http://dx.doi.org/10.1016/j.engstruct.2014.06.027
11. Franchin P and Cavalieri F (2014) "Probabilistic assessment of civil infrastructure resilience to earthquakes" Computer Aided Civil And Infrastructure Engineering, DOI: 10.1111/mice.12092
12. Cavalieri F, Franchin P, Buritica J and Tesfamariam S (2014) "Models for Seismic Vulnerability Analysis of Power Networks: Comparative Assessment" Computer Aided Civil And Infrastructure Engineering, DOI: 10.1111/mice.12064
13. Franchin P and Pinto PE (2014) "Performance-based seismic design of Integral Abutment Bridges" Bulletin of Earthquake Engineering Vol.12: 939–960. DOI 10.1007/s10518-013-9552-2
14. Franchin P, Pinto PE, and Calvi GM (2013) "Bridges and road network" Progettazione Sismica, IUSSPress, Pavia, Vol.5(?), [Special Issue on the May 22nd 2012 Emilia earthquake, in Italian]
15. Cavalieri F, Franchin P, Gehl P and Khazai B (2012) "Quantitative assessment of social losses based on physical damage and interaction with infrastructural systems" Earthq. Engng Struct. Dyn. Vol.41(11): 1569-1589. doi: 10.1002/eqe.2220
16. Franchin P and Pinto PE (2011) "Method for Probabilistic displacement-based design of RC structures" ASCE Journal of Structural Engineering Vol.138(5): 585-591. doi:10.1061/(ASCE)ST.1943-541X.0000492
17. Calvi GM, Pinto PE, Franchin P, Marnetto R (2010) "The highway network in the area struck by the event" Progettazione Sismica, IUSSPress, Pavia, Vol.1(3), 2009 [Special Issue on the April 6th 2009 l'Aquila earthquake]

18. Pinto PE and Franchin P (2010) “Issues in the upgrade of Italian highway structures” Journal of Earthquake Engineering, Taylor and Francis, Vol.14(8): 1221-1252.
19. Franchin P, Pinto PE and Rajeev P (2010) “Confidence Factor?” Journal of Earthquake Engineering, Taylor and Francis, Vol.14(7): 989-1007.
20. Franchin P and Pinto PE (2009) “Allowing traffic over mainshock-damaged bridges” Journal of Earthquake Engineering, Taylor and Francis, Vol.13(5): 585-599.
21. Rajeev P, Franchin P and Pinto PE (2008) “Increased accuracy of vector-IM-based seismic risk assessment?” Journal of Earthquake Engineering, Taylor and Francis, Vol.12 (Special Issue 1): 111-124.
22. Jalayer F, Franchin P and Pinto PE (2007) “A scalar damage measure for seismic reliability analysis of RC frames” Earthq. Engng Struct. Dyn.Vol.36(13): 2059-2079.
23. Franchin P, Pinto PE and Schotanus MIJ (2006) “Seismic loss estimation by efficient simulation” Journal of Earthquake Engineering, Imperial College Press, Vol.10(Special Issue 1): 31-44.
24. Lupoi G, Franchin P, Lupoi A and Pinto PE (2006) “Seismic fragility analysis of structural systems” ASCE Journal of Engineering Mechanics Vol.132(4): 385-395.
25. Franchin P, Lupoi A and Pinto PE (2006) “On the role of road networks in reducing human losses after earthquakes” Journal of Earthquake Engineering, Imperial College Press, Vol.10(2): 195-206.
26. Pinto PE, Lupoi A, Franchin P and Monti G (2005) “Seismic design of bridges accounting for spatial variability of ground motion” Earthquake Engineering and Structural Dynamics, Wiley, Vol.34: 327-348.
27. Schotanus MIJ, Franchin P, Lupoi A and Pinto PE (2004) “Seismic fragility analysis of 3D structures” Structural Safety Vol.26(4): 421-441.
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Part X– Other

Year	Title
2017	Mini-symposium organization: “MS-26 Performance-based Design of Dinamically Excited Structures”, co-organized with Dr. Agathoklis Giaralis and Dr. Francesco Petrini at the 10th International Conference on Structural Dynamics, Rome, Italy (10th -13th of September) URL: https://goo.gl/Lp2vLU
2016	PhD Examiner: Kilian Zwirglmaier “Reliability analysis with Bayesian networks” Technische Universität München, Germany
2016	PhD Examiner: Luis Alberto Montoya Coronado “A Direct Performance Based Seismic Design Method for Irregular Structures”, Universitat Politècnica de Catalunya, Spain
2015	Mini-symposium organization: “MS-11 Risk and Resilience Analysis of Infrastructure Systems”, co-organized with Prof. Alessio Lupoi at the 12th International Conference on Applications of Statistics and Probability in Civil Engineering, Vancouver, BC, Canada (12th – 15th of July) URL: https://goo.gl/tseoEF
2015	Workshop organization: “3rd Uc Lifeline Week: Towards More Resilient Communities”, co-organized with Dr. Sonia Giovinazzi, in Rome (Ministry of Infrastructures, Sapienza and Department of Civil Protection), L’Aquila, at the University of L’Aquila, and Naples, at the University of Naples Federico II, (20th-24th of April) URL: https://goo.gl/QoE8tD
2013	Workshop organization: “Earthquake Engineering by the Beach II” a workshop on Seismic Risk of Civil Infrastructures, co-organized with Prof. Iunio Iervolino, at the International Centre for Scientific Culture of the University of Naples Federico II: Villa Orlandi (8th-10th of June) URL: https://goo.gl/oTXBHk
2012	PhD Examiner: Xavier Das Neves Romão “Deterministic and probabilistic methods for structural seismic safety assessment”, Faculdade de Engegnharia, Unversidade do Porto, Portugal
2009	Workshop organization: “Earthquake Engineering by the Beach” a workshop on Performance-based design, co-organized with Prof. Iunio Iervolino, at the International Centre for Scientific Culture of the University of Naples Federico II: Villa Orlandi (2nd-4th of July) URL: https://goo.gl/BTpjg4
2005	PhD Examiner: Jesús Miguel Bairán García “A non-linear coupled model for the analysis of reinforced concrete sections under bending, shear, torsion and axial forces”, Universitat Politècnica de Catalunya, Spain

Roma, 30/3/2018

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