

Gianluca Quinci, Ph. D.

BScEng, MScEng, CEng

Curriculum Vitae



PERSONAL INFORMATION

Name	Gianluca Quinci
Profession	Civil Engineer – Assistant Professor of Department of Civil Engineering, Computer Science and Aeronautical Technologies, Roma Tre University
Nationality	Italian
Date of birth	24/03/1992
E-mail1	gianluca.quinci@uniroma3.it
Certified e-mail	g.quinci@pec.ording.roma.it

WORK EXPERIENCE

Nov. 2023 – Present	Assistant Professor (RtdA) Department of Civil Engineering, Computer Science and Aeronautical Technologies of Roma Tre University – Via Vito Volterra 62, 00146 Rome (Italy) Research Activity on Seismic Risk analysis, Machine learning techniques and seismic mitigation on critical infrastructures (industrial plants and bridges).
May 2021 – Present	Technical Civil Engineering ALC Enigeneering s.r.l., Via delle Rose 5, 00019, Tivoli (RM) Technical civil engineering in the planning of maintenance interventions and in the technical-administrative management of procedures related to public works, technical services, and construction site/workplace safety documentation.
Feb. 2023 – Oct. 2023	Post-Doctoral Researcher Department of Civil Engineering, Computer Science and Aeronautical Technologies of Roma Tre University – Via Vito Volterra 62, 00146 Rome (Italy) Research Activity on Seismic Risk analysis, Machine learning techniques and seismic mitigation on critical infrastructures (industrial plants and bridges).
Mar 2023-May 2023	Technical Civil Engineering Scuola Universitaria Superiore di Pavia, Piazza della Vittoria, n.15, 27100, Pavia (PV) Using of shaking table for experimental seismic test at MAXXI Museum
Mar. 2023 – Dec. 2023	Technical Civil Engineering TEA SISTEMI S.p.A., Via Ponte a Piglieri, 8, 56121, Pisa Technical civil engineering for the seismic analysis and retrofit design of industrial structures and equipment
Mar. 2022 – Sept. 2022	Technical Civil Engineering Department of Engineering of Roma Tre University – Via Vito Volterra 62, 00146 Rome (Italy) Technical civil engineering for the study of a methodology for the seismic and static risk assessment of existent bridges
Jan. 2021 – Mar. 2021	Research Fellow Department of Engineering of Roma Tre University – Via Vito Volterra 62, 00146 Rome (Italy) Research Activity on Seismic Risk analysis of equipment of an Industrial Plant based on fragility curves.

- Nov. 2019 – Jan. 2023** Ph.D. in Civil Engineering
Department of Engineering of Roma Tre University – Via Vito Volterra 62, 00146 Rome (Italy)
Research Activity on Seismic Risk of Industrial Facilities: Development of a valid methodology for the evaluation of seismic risk on Major-Hazard Industrial Plants. Design and development of mitigation strategies to reduce the seismic risk in industrial plants using Smart sensors and artificial intelligence.
- Jul. 2019-Nov. 2019** Research Fellow
Department of Engineering of Roma Tre University – Via Vito Volterra 62, 00146 Rome (Italy)
Research Activity on Mitigation of the Seismic Risk in Major-Hazard Industrial Plants using Smart Sensors technology.
- Dec. 2018- Mar. 2019** Curricular Trainee
Department of Techn. Innovation of INAIL - Via Torraccio di Torrenova 7, 00133 Rome (Italy)
Curricular Internship on Seismic Risk of Major-Hazard Industrial Plants and Mitigation Strategies.

EDUCATION

- Nov. 2019 – Jan. 2023** Ph. D. in Civil Engineering with the title of “Doctor Europaeus”. Roma Tre University – Via Vito Volterra 62, 00146 Rome (Italy)

Title of thesis: “An innovative framework for the seismic risk assessment of major-hazard process plant and equipment based on A.I. techniques”, May 2023
- Oct. 2016 – Mar. 2019** Master’s Degree in Civil Engineering for the Protection of Territory from Natural Risks Roma Tre University – Via Vito Volterra 62, 00146 Rome (Italy)
 - Specialization Area: Structures and Seismic Risk
 - Title of thesis: “Risk Analysis of an unanchored steel tank for the petrochemical industry”, March 2019
- Sep. 2011 – Dec. 2015** Bachelor’s Degree in Civil Engineering
University of Rome Tor Vergata - Via del Politecnico 1, 00133 Rome (Italy)
 - Title of thesis: “Self-Healing in cementitious materials”
- Sep. 2006 - Jul. 2011** High School Diploma in Scientific Studies
High School in Science Education “Lazzaro Spallanzani” – Via Rivellese 1, 00019 Tivoli, Rome (Italy)

PROFESSIONAL LICENCE

- Jan. 2020 - Present** License to the professional activity of Civil and Environmental Engineer (Nov. 2019) Enrolment in the Board of Engineers of Rome, Section A (Civil and Environmental Engineering) (January 2020)

COURSES ATTENDED AND CERTIFICATIONS

- May. 2021** PASSAGGI SICURI: rilievo e modellazione BIM delle infrastrutture
Course about relief and BIM modelling of civil infrastructures (i.e. bridges)
- June 2022** Giornata di studio Fabre: “Nuove tecnologie e recenti esperienze nel monitoraggio delle infrastrutture”, Portonovo (AN), 27 June 2022

Sept. 2022	NaTech Risk: Management Strategies and Resilience Towards Technological Accidents Caused by Natural Events, Udine, 4-9 Sept. 2022
Jul. 2022	Level 1 bridge inspector – certified by RINA
Nov. 2022	Level 2 bridge inspector – certified by RINA
Oct. 2023	Giornata di studio Fabre: “Dalla valutazione accurata delle opere infrastrutturali alla pianificazione degli interventi”, Bari, 19 Ottobre 2023
Sep. 2024	Workshop on masonry arch bridges WoMAB organized by FABRE Consortium and Padova University, Padova, 11-13 September 2024.

SCOLARSHIPS

Nov. 2019 – Jan 2023	3-year Ph.D. Scholarship
-----------------------------	--------------------------

NATIONAL AND INTERNATIONAL RESEARCH ACTIVITIES

May 2019	Participation as research fellow at national project “MSMART”. The aim of the project is the investigation of the seismic behaviour of critical infrastructures, i.e. industrial and chemical plant, in order to evaluate efficient seismic mitigation system to reduce the seismic risk. Traditional and innovative sensor has been studied and tested in order to perform their potential. The project has been conducted with the collaboration of Department of Technological Innovations of INAIL.
Jul. 2019	Participation as PhD student at the European project "SPIF": Seismic Performance of multi-componentsystems in special risk Industrial Facilities The objective of the project is the holistic investigation of the seismic behavior of industrial plants equipped with complex process technology by means of shaking table tests. Members: Center for Wind and Earthquake Engineering, RWTH Aachen (Germany) National Technical University of Athens (Greece), University of Belgrade (Serbia), Swissnuclear (Switzerland), Wölfel Engineering GmbH (Germany), University of Trento (Italy), Maurer Engineering GmbH (Germany), Roma TRE University (Italy), Purdue University (USA)
Jul. 2020	Participation at the European project “FIRST WIRE”: Fiber Reinforced Steel WIREs for high performance lightweight ropes and cables operating in demanding scenarios FIRST-WIRE (Fiber Reinforced Steel WIRE) project aims at developing a lightweight steel-based wire to be used for ropes and cables for a wide range of industrial and civil (i.e. bridges) where high performance over weight ratio plays a decisive role and the recourse to traditional full steel wire is unfeasible due to the excessive selfweight and/or the unsatisfactory structural performances. Members: Astarte Strategies SRL (Italy), Redaelli Tecna S.p.a. (Italy), national technical university of athens - NTUA (Greece), Università degli Studi di Padova (Italy), Università degli Studi Roma Tre (Italy), Universitaet Stuttgart (Germany), KME GERMANY GMBH & CO KG (Germany), IHC MTI BV (Netherlands)
Jan. 2022	Technical Manager of Work Package 4 of the regional project “MLazio” founded by Lazio region. Topic of the work package: “Development of a methodology for the quantitative static and seismic risk assessment of the bridges of the Lazio region”. MLAZIO project aims at developing a smart and innovative methodology for the static and seismic risk assessment of the existent bridges of the Lazio Region. The primary goal of the project is to develop a bridge management system to manage the existent bridges through innovative technology such as satellite monitoring and

machine learning.

Jan. 2023	Participation as Post-Doctoral researcher in the convention between Roma Tre University and research consortium FABRE. The activities of the convention are focused on the simplified analysis of the bridges of Perugia district based on the Italian guidelines the safety of existing bridges
March 2023	Participation as Assistant Professor (RtdA) in the convention between Roma Tre University and research consortium FABRE. The activities of the convention are focused on the analysis of the bridges of ANAS based on Italian technical code (NTC '18)
March 2023	Participation as Assistant Professor (RtdA) in the convention between Roma Tre University and research consortium FABRE. The activities of the convention are focused on the design of monitoring system for the bridges of ASTM.
June 2023	Participation as Assistant Professor (RtdA) in the convention between Roma Tre University and research consortium FABRE. The activities of the convention are focused on the qualitative and quantitative analysis and design of monitoring system for the bridges of Autastrada Asti-Cuneo.
January 2024	Participation as Assistant Professor (RtdA) in the convention between Roma Tre University and ENEA research center. The activities of the convention are focused on the study of seismic behavior of secondary elements of school structures.
September 2025	Research Unit Member, Roma Tre University — European project HORIZON-MSCA-DN “REUNATECH – Resilient Non-Structural Components Through Advanced Characterization and Engineering” (Proposal ID 101225914), funded under the Marie Skłodowska-Curie Doctoral Networks programme. Appointed scientific supervisor of one international doctoral candidate recruited at the Italian unit.
May 2026	Principal Investigator, Roma Tre University — BRIC INAIL 2026 project “CHROM”, focused on the assessment of occupational and workplace risk under climate-change-driven natural hazards, with particular emphasis on the effects of changing climatic conditions on the safety and resilience of industrial facilities and working environments. Responsible for the scientific coordination of the Roma Tre research activities and the overall project implementation.

NATIONAL AND INTERNATIONAL CONFERENCES

Scientific Organizer and Chair, special session SS23 – “Nonstructural Elements in Civil Engineering: Seismic Vulnerability, Risk, and Mitigation Strategies”, at the XX ANIDIS Conference – Earthquake Engineering in Italy, Assisi, Italy, 7–11 September 2025. Conceived and coordinated in collaboration with national and international researchers, the session focuses on the seismic vulnerability and risk management of nonstructural elements in buildings and industrial facilities, with particular emphasis on mitigation strategies, codes and standards, and advanced analysis techniques.

Scientific Organizer and Chair, technical session SE-04 – “Machine Learning and Advanced Computation for Seismic Analysis of Industrial Facilities”, at the ASME Pressure Vessels & Piping Conference (PVP 2025), Montreal, Canada, 27 July – 1 August 2025. Personally conceived and curated the session, dedicated to advanced computing and machine-learning techniques for the seismic analysis of industrial plants, fostering dialogue between academic research and advanced engineering applications.

Scientific Organizer and Chair, technical session SE-04 – “Machine Learning and Advanced Computation for Seismic Analysis of Structures”, at the ASME Pressure Vessels & Piping Conference (PVP 2026), Anaheim, California, 19 July – 24 July 2026. Personally conceived and curated the session, dedicated to advanced computing and machine-learning techniques for the seismic analysis of industrial plants, fostering dialogue between academic research and advanced engineering applications.

Scientific Organizer and Chair, minisymposium MS-71 – “Artificial Intelligence Techniques in Seismic Engineering”, at COMPDYN 2025 – 9th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Rhodes, Greece, 22–25 June 2025. Personally conceived and coordinated the minisymposium, dedicated to AI applications in earthquake engineering, fostering the exchange of innovative approaches among researchers, practitioners, and developers of advanced computational tools.

Scientific Organizer and Chair, technical session SE-04 – “Machine Learning for Seismic Analysis of Industrial Facilities”, at the ASME Pressure Vessels & Piping Conference (PVP 2024), Seattle, USA, 28 July – 3 August 2024. Personally curated and chaired the session, which addressed the application of machine learning techniques to the seismic analysis of industrial plants and featured contributions from leading international researchers

Co-Chair, technical session SE-07 – “Seismic Evaluation of Systems, Structures and Components”, at the ASME Pressure Vessels & Piping Conference (PVP 2024), Seattle, USA, 28 July – 3 August 2024. The session focused on seismic assessment of systems, structures, and components in industrial and civil domains, featuring notable contributions from international research groups and academic institutions.

Author and presenter, ANIDIS 2025 – Italian National Conference on Earthquake Engineering, Assisi — Paper: “Seismic Vulnerability Assessment of Storage Tanks in Terms of Loss of Containment.”

Author and presenter, ASME Pressure Vessels & Piping Conference (PVP 2025), Montreal — Paper: “Machine Learning-Based Post-Earthquake Performance Rapid Assessment of Power Transformers in Substations.”

Presenting author and speaker in Pressure Vessels & Piping Division Conference PVP 2024, July 28- Aug 3, 2024, Seattle, Washington. Memory: Quinci G., Paolacci F., Fragiadakis M., " Seismic risk assessment of non-structural components in hazardous facilities through a novel ANN-based technique”.

Presenting author and speaker in World Conference of Earthquake Engineering 2024, July 1-5, 2024, Milan, Italy. Memory: Quinci G., Paolacci F., Fragiadakis M., Phan H. N., Nguyen V. M., " Proposal of an ANN-based framework for a rapid assessment of industrial plant”.

Presenting author and speaker in World Conference of Earthquake Engineering 2024, July 1-5, 2024, Milan, Italy. Memory: Quinci G., Moretti M., Marta L., Paolacci F., De Felice G., "A methodology for the preliminary seismic assessment of road bridges according to the italian guidelines”.

Presenting author and speaker in “Ponti, viadotti, e gallerie esistenti: ricerca, innovazione e applicazioni” conference organized by FABRE consortium, Genova 12-15 February 2024 Memory: Paolacci F., Quinci G., Marta L., Moretti M. “A methodology for the preliminary seismic assessment of road bridges within the italian guidelines on the assessment and management of risk conditions of bridges”

Presenting author and speaker in Pressure Vessels & Piping Division Conference PVP 2021, July 13-15, 2021, Virtual conference. Memory: Butenweg, C., Paolacci F., Quinci G. "Experimental Investigation on the Seismic Performance of a Multicomponent System for Major-hazard Industrial Facilities”.

Presenting author and speaker in Pressure Vessels & Piping Division Conference PVP 2022, July 17-22, 2022, Las Vegas, Nevada. Memory: Quinci G., Paolacci F., Phan N. "A novel machine learning based framework for the seismic risk assessment of industrial plant”.

Presenting author and speaker in Pressure Vessels & Piping Division Conference PVP 2023, July 16-21, 2023, Atlanta, Georgia. Memory: Quinci G., Paolacci F. "On the use of artificial neural network technique for seismic fragility analysis of a three-dimensional industrial frame”.

Invited speaker to technical seminar “Monitoraggio delle infrastrutture critiche via satellite”, organized by Ordine degli Ingegneri della provincia di Roma, 27 May 2022, Memory:” Monitoraggio multi-livello di opere in elevazione: il progetto MLAZIO”

Invited speaker to technical seminar “Tecniche avanzate di raccolta ed utilizzo dati nell'ingegneria civile”, organized by Università degli Studi Roma Tre and Ordine degli Ingegneri della provincia di Roma, 31 May 2022, Memory:” Uso di tecniche di intelligenza artificiale nella valutazione della vulnerabilità sismica di impianti industriali”

Invited speaker to technical seminar “Il Rischio NATECH negli stabilimenti industriali: le principali sfide poste dalle attività di analisi, valutazione e controllo”, organized by Ordine degli Ingegneri della provincia di Roma, 09 May 2024, Memory:” Il rischio NATECH negli impianti a rischio di incidente rilevante: lo studio del comportamento dinamico e la modellazione numerica dei componenti industriali”

Presenting author and speaker in XIX Convegno ANIDIS L'ingegneria Sismica in Italia: Torino, 11-15 settembre 2022. Memory: Quinci G., Paolacci F., Fragiadakis M. “An innovative framework for risk assessment of non-structural components for industrial plants”

Presenting author in SPIE Remote Sensing 2022, Earth Resources and Environmental Remote Sensing/GIS Applications XIII: Berlin, 5-7 settembre 2022. Memory: Quinci et al. “A Novel Bridge Monitoring System Implementing Ground-Based, Structural and Remote Sensing Information into A GIS-Based Catalogue”

Author and presenter at the international ASME Pressure Vessels & Piping Conference (PVP 2021), held virtually 13–15 July 2021, with the paper: Butenweg C., Paolacci F., Quinci G., “Experimental Investigation on the Seismic Performance of a Multicomponent System for Major-Hazard Industrial Facilities.” The contribution reports an experimental study on the seismic response of a multicomponent system used in major-hazard industrial plants, aiming to assess its dynamic performance and overall safety.

Organizer of the 2026 National FABRE Conference on Bridges and Viaducts, held in Rome in February 2026. Involved in the

scientific and organizational coordination of the national conference, bringing together researchers, practitioners, institutions, and stakeholders working on the assessment, management, maintenance, and safety of bridges and viaducts.

FELLOWSHIP AND AWARDING

Technical Program Responsible of Seismic Technical Committee of American Society of Mechanical Engineering -Pressure Vessels and Piping Division 2025-now.

Member of the Organizing Committee, III FABRE Conference — “Existing Bridges, Viaducts and Tunnels: Research, Innovation and Applications”, to be held at the Auditorium della Tecnica, Rome, 16–19 February 2026. Organized by the FABRE Consortium in collaboration with universities, public bodies, and professional associations, the conference focuses on risk management and durability of existing infrastructure, with particular emphasis on monitoring, advanced modelling, and the digitalization of assets.

Member of Seismic Technical Committee of American Society of Mechanical Engineering -Pressure Vessels and Piping Division. It should be noted that the position of STC member is awarded only after passing the screening of all committee members based on the candidate's CV who must demonstrate distinguished contributions in the field of seismic engineering and particularly in the seismic engineering applied to industrial facilities

Co-Technical Program Responsible of Seismic Technical Committee of American Society of Mechanical Engineering -Pressure Vessels and Piping Division 2023-2025.

Early Career Responsible of Seismic Technical Committee of American Society of Mechanical Engineering -Pressure Vessels and Piping Division

Member of Working Group 13 of the European Association for Earthquake Engineering (EAEE). The main topic of the association is the Seismic assessment, design and resilience of industrial facilities. The association have the aim to create a network with other European Engineer. Members of the Association: Roma TRE University (Italy), Aachen university (Germany), SDA-Engineering GmbH (Germany), University of Trento (Italy), KOERI (Turkey), GEBZE (Turkey), University of Belgrade (Serbia), NTUA (Greece), University of Ljubljana (Slovenia), University of Bristol (UK)

Assistant Professor (RTdA) at University Roma Tre, November 2023- Present. Research Activity on seismic risk analysis, mitigation strategies and machine learning technique for the risk assessment of critical infrastructures (industrial plants and bridges)

Post-Doctoral researcher at University Roma Tre, February 2023- October 2023. Research Activity on seismic risk analysis, mitigation strategies and machine learning technique for the risk assessment of critical infrastructures (industrial plants and bridges)

Research Fellow at University Roma Tre, July 2019-November 2019. Research Activity on Mitigation of the Seismic Risk in Major-Hazard Industrial Plants using Smart Sensors technology.

PhD candidate at University Roma Tre, November 2019-January 2023. Research activity on Seismic Risk of Industrial Facilities: Development of a valid methodology for the evaluation of seismic risk oh Major-Hazard Industrial Plants. Design and development of mitigation strategies to reduce the seismic risk in industrial plants using Smart sensors and artificial intelligence.

Research fellow at University Roma Tre, January 2021-March 2021. Research Activity on Seismic Risk analysis of equipment of an Industrial Plant based on fragility curves.

Visiting PhD candidate at National Technical University of Athens, March 2022- June 2022. Research topic: Machine learning techniques applied to civil engineering

First runner-up prize in PhD category in in Pressure Vessels & Piping Division Conference PVP 2022, July 17-22, 2022, Las Vegas, Nevada. Memory: Quinci G., Paolacci F., Phan N. "On the use of artificial neural network technique for seismic fragility analysis of a three-dimensional industrial frame”.

Certificate of Appreciation for Authoring the Outstanding Technical Paper from the Seismic Engineering Technical Committee at the 2022 ASME Pressure Vessels & Piping Conference Titled “On the Use of Artificial Neural Network Technique for Seismic Fragility Analysis of a Three-Dimensional Industrial Frame.”

Certificate of Recognition for Outstanding Service to the Seismic Engineering Technical Committee as Co-TPR for the 2024 ASME Pressure Vessels & Piping Conference

Certificate of Recognition for Outstanding Service to the Seismic Engineering Technical Committee as Co-TPR for the 2025 ASME Pressure Vessels & Piping Conference

Certificate of Recognition for Outstanding Service to the Seismic Engineering Technical Committee as Co-TPR for the 2026 ASME Pressure Vessels & Piping Conference

TEACHING ACTIVITIES

Teaching assistant within Theory and Design of Bridges course at the Department of Department of Civil, Computer Science and Aeronautical Technologies Engineering of Roma Tre University (Nov. 2019-Present)

Teacher of Design of Structures course at the Department of Civil, Computer Science and Aeronautical Technologies Engineering of Roma Tre University (2024-Present)

Teaching assistant within di Offshore Engineering and Marine Structures course at the Department of Department of Civil, Computer Science and Aeronautical Technologies Engineering of Roma Tre University (Sep. 2022-Present)

PhD Supervision (ongoing) — Co-supervisor, National PhD in Protection from Natural Risks and Ecological Transition of the Built Environment, University of Catania — Ignazio Casiraro (Nov 1, 2022–Nov 2025): Rapid seismic risk assessment of simply supported girder bridges using neural networks (Level-3 Italian Ministerial Guidelines). Supervisor, PhD in Civil Engineering, Roma Tre University — Alessio Bonelli: Mechanical models for assessing release phenomena in storage tanks under seismic action. Supervisor, PhD in Civil Engineering, Roma Tre University — Atif Ali: Machine learning techniques for SHM of structures and infrastructures

PhD Teaching courses:

- Machine Learning & AI Methods – Theory, Techniques and Advanced Applications in Civil Engineering, PhD in Civil Engineering, Roma Tre University — 12 hours, 4–7 Nov 2024.
- Introduction to Machine Learning: New Tools for Structural Engineering and Risk Assessment, National PhD “Defense against Natural Risks and Ecological Transition of the Built Environment”, University of Catania — 12 hours, 22–23 May 2025.
- Machine Learning & AI Methods – Theory, Techniques and Advanced Applications in Civil Engineering, PhD in Civil Engineering, Roma Tre University — 12 hours; scheduled by the doctoral board on 25 Feb 2025.
- Loss of Containment assessment of industrial structure, PhD in Civil Engineering, Thessaloniki University — 4 hours; scheduled by the doctoral board of REUNATECH Project on 6 July 2026.
- Machine learning for risk assessment, PhD in Civil Engineering, Thessaloniki University — 4 hours; scheduled by the doctoral board of REUNATECH Project on 6 July 2026.

Organizer and Instructor, summer school “Introduction to Machine Learning for Civil Engineering and Architecture”, ARTISTE 2025 Summer School, Politecnico di Torino, 18–20 September 2025; targeted at PhD candidates in Civil Engineering and Architecture.

Organizer and Instructor, summer school “Introduction to Machine Learning for Civil Engineering and Architecture”, 2026 Summer School, Roma Tre University, 22-24 October 2026; targeted at PhD candidates in Civil Engineering and Architecture.

PUBBLICATIONS

September 2026	Gianluca Quinci, Ignazio Casiraro, Marinella Fossetti, Data-driven seismic fragility and risk evaluation of existing reinforced-concrete bridge portfolios under limited data, Engineering Applications of Artificial Intelligence, Volume 183, 2026, 116245, ISSN 0952-1976, https://doi.org/10.1016/j.engappai.2026.116245 .
April 2026	S. Vern, F. Paolacci, G. Quinci, R. Nascimbene, J. Ferino, Static and Seismic Analysis of a Cable-Stayed Bridge Equipped with Novel Hybrid Cables, International Journal of Bridge Engineering, Management and Research, Volume 3, Issue 2, 2026, 21426004–1:21426004, https://doi.org/10.70465/ber.v3i1.73 .
March 2026	F. Paolacci, Y. Almasi, G. Quinci, D. Corritore, M. Ciucci, E. Volpi, State-of-the-art review of NaTech risk assessment of industrial facilities exposed to hydro-meteorological hazards, International Journal of Disaster Risk Reduction, Volume 139, 2026, 106156, ISSN 2212-4209, https://doi.org/10.1016/j.ijdrr.2026.106156 .
March 2026	D.C. Chanh, H.N. Phan, P.H. Hoang, G. Quinci, F. Paolacci, Seismic strengthening of RC bridge piers with high-performance cementitious jacketing: A comprehensive review, recommendations and a precast HPC-FRP grid jacket proposal, Journal of Science and Technology in Civil Engineering, Volume 20, Issue 1, 2026, pp. 10–29, https://doi.org/10.31814/stce.huace2026-20(1)-02 .
February 2026	W. Zhu, F. Paolacci, G. Quinci, Q. Xie, Simulation and interpretable learning co-driven framework for multi-objective seismic monitoring of substation equipment, Mechanical Systems and Signal Processing, Volume 245, 2026, 113876, ISSN 0888-3270, https://doi.org/10.1016/j.ymssp.2026.113876 .
January 2026	G. Quinci, I. Casiraro, M. Fossetti, Machine Learning Seismic Risk Assessment of Girder-Bridge Portfolios with Limited Data, in Accordance with the Italian Guidelines: Potential and Challenges, SSRN Electronic Journal / Preprint, 2026.

January 2026	G. Quinci, I. Casiraro, M. Fossetti, H.N. Phan, F. Paolacci, Sensitivity analysis of different machine learning models in the seismic response assessment of bridges, <i>Procedia Structural Integrity</i> , Volume 78, 2026, pp. 845–851, ISSN 2452-3216, https://doi.org/10.1016/j.prostr.2025.12.108 .
January 2026	A. Bonelli, M. Ciucci, G. Quinci, F. Paolacci, Seismic vulnerability assessment of storage tanks in terms of loss of containment, <i>Procedia Structural Integrity</i> , Volume 78, 2026, pp. 505–512, ISSN 2452-3216, https://doi.org/10.1016/j.prostr.2025.12.065 .
January 2026	C. Demartino, G. Quinci, F. Paolacci, A critical analysis of methods for seismic risk assessment of nonstructural elements in school buildings, <i>Procedia Structural Integrity</i> , Volume 78, 2026, pp. 2126–2132, ISSN 2452-3216, https://doi.org/10.1016/j.prostr.2025.12.270 .
January 2026	Y. Liu, D.-G. Lu, F. Paolacci, G. Quinci, Seismic resilience assessment for steel-concrete composite bridges under near-fault earthquakes, <i>Procedia Structural Integrity</i> , Volume 78, 2026, pp. 2030–2037, ISSN 2452-3216, https://doi.org/10.1016/j.prostr.2025.12.258 .
January 2026	Y. Almasi, F. Paolacci, D. Corritore, S. Caprinuzzi, G. Quinci, M. Ciucci, Multi-hazard risk analysis of industrial equipment exposed to earthquake-tsunami scenarios: a state-of-the-art review, <i>Procedia Structural Integrity</i> , Volume 78, 2026, pp. 433–440, ISSN 2452-3216, https://doi.org/10.1016/j.prostr.2025.12.056 .
January 2026	H.V. Nguyen, H.N. Phan, D.H. Pham, G. Quinci, F. Paolacci, Portfolio-scale seismic fragility of RC bridge columns with series-distributed neural networks, <i>International Journal of Disaster Risk Reduction</i> , Volume 132, 2026, 105955, ISSN 2212-4209, https://doi.org/10.1016/j.ijdr.2025.105955 .
December 2025	W. Zhu, F. Paolacci, G. Quinci, Q. Xie, Machine learning-assisted seismic risk assessment of substation equipment considering material parameter uncertainty, <i>Engineering Structures</i> , Volume 344, 2025, 121381, ISSN 0141-0296, https://doi.org/10.1016/j.engstruct.2025.121381 .
December 2025	H.N. Phan, F. Paolacci, G. Quinci, D. Corritore, Seismic Fragility Analysis of Above-Ground Steel Storage Tanks in Process Industries: A State-of-the-Art Review and Recommendations, <i>Journal of Pressure Vessel Technology</i> , Volume 147, Issue 6, 2025, pp. 1–30, ISSN 0094-9930, https://doi.org/10.1115/1.4068725 .
October 2025	W. Zhu, G. Quinci, F. Paolacci, M. Ciucci, Q. Xie, Machine Learning Based Post-Earthquake Performance Rapid Assessment of Power Transformer in Substation, <i>Proceedings of the ASME 2025 Pressure Vessels & Piping Conference (PVP2025)</i> , 2025, Paper PVP2025-154934, https://doi.org/10.1115/PVP2025-154934 .
July 2025	C. Demartino, G. Quinci, F. Paolacci, Seismic performances of Italian schools: A comprehensive overview of risk assessment, retrofitting, and preparedness strategies, <i>International Journal of Disaster Risk Reduction</i> , Volume 125, 2025, 105508, ISSN 2212-4209, https://doi.org/10.1016/j.ijdr.2025.105508 .
June 2025	O.S. Bursi, H.L. Ali, C. Nardin, M. Broccardo, G. Quinci, F. Paolacci, L. Caracoglia, Fragility Models for Industrial Equipment Subjected to Natural Hazards, <i>Chemical Engineering Transactions</i> , Volume 116, 2025, pp. 517–522, ISSN 2283-9216, https://doi.org/10.3303/CET25116087 .
June 2025	W. Zhu, F. Paolacci, G. Quinci, Q. Xie, A novel approach for seismic risk assessment of porcelain cylindrical electrical equipment, <i>International Journal of Disaster Risk Reduction</i> , Volume 124, 2025, 105524, ISSN 2212-4209, https://doi.org/10.1016/j.ijdr.2025.105524 .
June 2025	I. Casiraro, G. Quinci, F. Castelli, M. Fossetti, H.N. Phan, F. Paolacci, Rapid seismic risk screening of simply supported girder bridges using a simplified ML-based approach: a case study in Sicily, <i>COMPADYN 2025 Proceedings</i> , Rhodes Island, Greece, 2025, ISBN 978-618-5827-06-9, https://doi.org/10.7712/120125.12751.25349 .
June 2025	W. Zhu, F. Paolacci, G. Quinci, Q. Xie, Seismic Response Prediction of Electrical Equipment in Substation Using Machine Learning Chain Models, <i>COMPADYN 2025 Proceedings</i> , Rhodes Island, Greece, 2025, https://doi.org/10.7712/120125.12752.26125 .
May 2025	F. Paolacci, A.C. Caputo, D. Corritore, G. Quinci, A Probabilistic Approach for Seismic Resilience Analysis of Hazardous Industrial Facilities in Seismic Areas, in V. Cozzani (Ed.), <i>Management Strategies and Resilience Against NaTech Events: Technological Accidents Caused by Natural Hazards</i> , Springer, 2025, pp. 95–116, ISBN 978-3-031-84485-0, https://doi.org/10.1007/978-3-031-84485-0_5 .
February 2025	G. Quinci, F. Paolacci, M. Fragiadakis, O.S. Bursi, A machine learning framework for seismic risk assessment of industrial equipment, <i>Reliability Engineering & System Safety</i> , Volume 254, Part B, 2025, 110606, ISSN 0951-8320, https://doi.org/10.1016/j.ress.2024.110606 .
November 2024	H.V. Nguyen, D.C. Chanh, H.N. Phan, P.H. Hoang, G. Quinci, An overview of performance-based seismic design methodology for bridges, <i>The University of Danang – Journal of Science and Technology</i> , Volume 22, Issue 11B, 2024, pp. 8–14, https://doi.org/10.31130/ud-jst.2024.510E .
November 2024	N.D.D. Nguyen, M.H. Ho, D.C. Chanh, H.N. Phan, M.H. Nguyen, G. Quinci, Flexural capacity calculation of RC beams strengthened with prestressed CFRP sheets, <i>The University of Danang – Journal of Science and Technology</i> , Volume 22, Issue 11B, 2024, pp. 63–69, https://doi.org/10.31130/ud-jst.2024.522E .
September 2024	Y. Liu, D.-G. Lu, F. Paolacci, G. Quinci, S. Vern, Seismic Resilience Assessment for Steel-Concrete Composite Bridges Including Impacts of Near-Fault Earthquakes, <i>International Journal of Bridge Engineering, Management and Research</i> , Volume 1, Issue 1, 2024, pp. 21424005–1:15, https://doi.org/10.70465/ber.v1i1.5 .
September 2024	F. Paolacci, G. Quinci, L. Marta, M. Moretti, A methodology for the preliminary seismic assessment of road bridges within the Italian guidelines on the assessment and management of risk conditions of bridges, <i>Procedia Structural Integrity</i> , Volume 62, 2024, pp. 732–737, ISSN 2452-3216, https://doi.org/10.1016/j.prostr.2024.09.100 .

September 2024	L. Pallante, P. Meriggi, F. D'Amico, A. Napolitano, V. Gagliardi, F. Paolacci, G. Quinci, G. de Felice, Proposal of a GIS and BIM based structured database for bridge management digitalization, <i>Procedia Structural Integrity</i> , Volume 62, 2024, pp. 268–275, ISSN 2452-3216, https://doi.org/10.1016/j.prostr.2024.09.042 .
July 2024	G. Quinci, F. Paolacci, M. Fragiadakis, Seismic Risk Assessment of Non-Structural Components in Hazardous Facilities Through a Novel ANN-Based Technique, <i>Proceedings of the ASME 2024 Pressure Vessels & Piping Conference (PVP2024)</i> , Bellevue, WA, USA, 2024, Paper PVP2024-123479, https://doi.org/10.1115/PVP2024-123479 .
July 2024	G. Quinci, F. Paolacci, M. Fragiadakis, H.N. Phan, P.H. Hoang, Proposal of an ANN-Based Framework for a Rapid Seismic Risk Assessment of Major-Hazard Industrial Plants, <i>Proceedings of the 18th World Conference on Earthquake Engineering (WCEE2024)</i> , Milan, Italy, 2024, ISSN/ISBN 3006-5933.
January 2024	L. Pallante, P. Meriggi, F. D'Amico, V. Gagliardi, A. Napolitano, F. Paolacci, G. Quinci, M. Lorello, G. de Felice, An Integrated Data-Driven System for Digital Bridge Management, <i>Buildings</i> , Volume 14, Issue 1, 2024, 253, ISSN 2075-5309, https://doi.org/10.3390/buildings14010253 .
December 2023	G. Quinci, H.N. Phan, F. Paolacci, Artificial Neural Network Technique for Seismic Fragility Analysis of a Storage Tank Supported by Multi-Storey Frame, <i>Journal of Pressure Vessel Technology</i> , Volume 145, Issue 6, 2023, 061901, ISSN 0094-9930, https://doi.org/10.1115/1.4063242 .
September 2023	G. Quinci, C. Nardin, F. Paolacci, O.S. Bursi, Modelling of non-structural components of an industrial multi-storey frame for seismic risk assessment, <i>Bulletin of Earthquake Engineering</i> , Volume 21, Issue 13, 2023, pp. 6065–6089, ISSN 1570-761X, https://doi.org/10.1007/s10518-023-01753-4 .
July 2023	G. Quinci, F. Paolacci, A Novel Machine Learning Based Framework for the Seismic Risk Assessment of Industrial Plant, <i>Proceedings of the ASME 2023 Pressure Vessels & Piping Conference (PVP2023)</i> , Volume 7: Seismic Engineering; NDPD Division, Atlanta, GA, USA, 2023, V007T08A010, https://doi.org/10.1115/PVP2023-106452 .
January 2023	G. Quinci, F. Paolacci, M. Fragiadakis, An innovative framework for risk assessment of non-structural components for industrial plants, <i>Procedia Structural Integrity</i> , Volume 44, 2023, pp. 251–258, ISSN 2452-3216, https://doi.org/10.1016/j.prostr.2023.01.033 .
January 2023	F. Paolacci, R. Giannini, H.N. Phan, D. Corritore, G. Quinci, SCORES: an algorithm for records selection to employ in seismic risk and resilience analysis, <i>Procedia Structural Integrity</i> , Volume 44, 2023, pp. 307–314, ISSN 2452-3216, https://doi.org/10.1016/j.prostr.2023.01.040 .
January 2023	F. Paolacci, G. Quinci, P. Meriggi, L. Pallante, G. de Felice, A regional model for classifying, managing, evaluating, and monitoring the seismic safety of bridge structures: the MLAZIO project, <i>Procedia Structural Integrity</i> , Volume 44, 2023, pp. 697–704, ISSN 2452-3216, https://doi.org/10.1016/j.prostr.2023.01.091 .
August 2022	R. Giannini, F. Paolacci, H.N. Phan, D. Corritore, G. Quinci, A novel framework for seismic risk assessment of structures, <i>Earthquake Engineering & Structural Dynamics</i> , Volume 51, Issue 14, 2022, pp. 3416–3433, ISSN 0098-8847, https://doi.org/10.1002/eqe.3729 .
August 2022	G. Quinci, V. Gagliardi, L. Pallante, D.R.J. Manalo, A. Napolitano, L. Bertolini, L. Bianchini Ciampoli, P. Meriggi, F. D'Amico, F. Paolacci, A novel bridge monitoring system implementing ground-based, structural and remote sensing information into a GIS-based catalogue, <i>Proceedings of SPIE</i> , Volume 12268, 2022, 122680H, ISBN 978-1-5106-5539-3, https://doi.org/10.1117/12.2637913 .
July 2022	B. Kalemi, F. Paolacci, A.C. Caputo, D. Corritore, G. Quinci, Quantitative Probabilistic Seismic Resilience Assessment of Industrial Facilities, <i>Proceedings of the ASME 2022 Pressure Vessels & Piping Conference (PVP2022)</i> , Volume 5, Las Vegas, NV, USA, 2022, V005T08A010, ISBN 978-0-7918-8619-9, https://doi.org/10.1115/PVP2022-84660 .
July 2022	G. Quinci, H.N. Phan, F. Paolacci, On the Use of Artificial Neural Network Technique for Seismic Fragility Analysis of a Three-Dimensional Industrial Frame, <i>Proceedings of the ASME 2022 Pressure Vessels & Piping Conference (PVP2022)</i> , Volume 5, Las Vegas, NV, USA, 2022, V005T08A013, ISBN 978-0-7918-8619-9, https://doi.org/10.1115/PVP2022-83874 .
June 2022	C. Nardin, O.S. Bursi, F. Paolacci, A. Pavese, G. Quinci, Experimental performance of a multi-storey braced frame structure with non-structural industrial components subjected to synthetic ground motions, <i>Earthquake Engineering & Structural Dynamics</i> , Volume 51, Issue 9, 2022, pp. 2113–2136, ISSN 0098-8847, https://doi.org/10.1002/eqe.3656 .
September 2021	C. Butenweg, O.S. Bursi, F. Paolacci, M. Marinković, I. Lanese, C. Nardin, G. Quinci, Seismic performance of an industrial multi-storey frame structure with process equipment subjected to shake table testing, <i>Engineering Structures</i> , Volume 243, 2021, 112681, ISSN 0141-0296, https://doi.org/10.1016/j.engstruct.2021.112681 .
July 2021	C. Butenweg, O.S. Bursi, C. Nardin, I. Lanese, A. Pavese, M. Marinković, F. Paolacci, G. Quinci, Experimental Investigation on the Seismic Performance of a Multi-Component System for Major-Hazard Industrial Facilities, <i>Proceedings of the ASME 2021 Pressure Vessels & Piping Conference (PVP2021)</i> , 2021, Paper PVP2021-61696, https://doi.org/10.1115/PVP2021-61696 .
July 2021	C. Nardin, O.S. Bursi, F. Paolacci, G. Quinci, I. Lanese, A. Pavese, Shake Table Testing for a Multi-Component Prototype Industrial Plant: Input and System Modelling Issues, <i>Proceedings of the ASME 2021 Pressure Vessels & Piping Conference (PVP2021)</i> , 2021, Paper PVP2021-61702, https://doi.org/10.1115/PVP2021-61702 .
June 2021	F. Paolacci, G. Quinci, C. Nardin, V. Vezzari, A. Marino, M. Ciucci, Bolted flange joints equipped with FBG sensors in industrial piping systems subjected to seismic loads, <i>Journal of Loss Prevention in the Process Industries</i> , Volume 72, 2021, 104576, ISSN 0950-4230, https://doi.org/10.1016/j.jlp.2021.104576 .
September 2019	A. Marino, M. Ciucci, L. Barbieri Vita, O. Palermo, G. Quinci, Valutazione e gestione del rischio sismico negli stabilimenti con pericolo di incidente rilevante, <i>Atti del XVIII Convegno ANIDIS – L'Ingegneria Sismica in Italia</i> , Ascoli Piceno, 15–19 September 2019, contributo n. 3641, 2019.

