

CURRICULUM VITAE

Federico ACCORNERO, MScEng, PhD

Born in Asti-Italy on June 6, 1983

E-mail: federico.accornero@polito.it

EDUCATION

**Doctoral Degree in Structural Engineering, Politecnico di Torino,
Torino-Italy, 2014**

**Master of Science in Building Engineering, Politecnico di Torino,
Torino-Italy, 2009**

CURRENT POSITIONS

Adjunct Professor, National School of the Italian Army, Torino-Italy

**Post-doc Fellow, Department of Structural, Geotechnical, and Building
Engineering, Politecnico di Torino, Torino-Italy**

Fellow, School of Engineering, Shantou University, Guangdong-China

TEACHING ACTIVITIES

“Structural Mechanics”, 2018-

National School of the Italian Army, Torino-Italy

“Arch, Cable-stayed, and Suspension Bridges”, 2014-2016

Doctoral School, Politecnico di Torino, Torino-Italy

As assistant of Prof. Alberto CARPINTERI:

“Fracture & Plasticity”, 2014-

School of Civil Engineering, Politecnico di Torino, Torino-Italy

“Fracture Mechanics”, 2020-2021

School of Engineering, Shantou University, Guangdong-China

COMMISSIONS OF TRUST

Member of the Scientific Committee, 8th World Congress on Civil, Structural, and Environmental Engineering, CSEE'23, Lisbon-Portugal, 2023

Member of the Topical Advisory Panel of “Buildings” (MDPI), 2021-

Member of the Editorial Board of “Buildings” (MDPI), 2020-2021

Member of the Expert Panel of the Evaluation Committee for the attainment of the position of Lieutenant of the Engineering Corps (SPE - Permanent Service), Ministry of Defence (Italy), 2018-2019

SUPERVISION OF PhD DISSERTATIONS

Supervisor of 2 PhD Candidates in Civil and Environmental Engineering (Topic: Fracture Mechanics of Concrete Structures), Doctoral School, Politecnico di Torino, 2019-

RESEARCH TOPICS AND CUTTING-EDGE RESULTS

Total citations (Scopus): 428 H-index (Scopus): 12

Different specific topics have been considered in the framework of fracture mechanics and structural engineering, always giving them a personal and original contribution, with an innovative focus on next-generation reinforced concrete. Among these peculiar aspects, it is significant to recall the following ones:

(1) Investigation of the structural effects due to reinforcement, slenderness, and scale in the design of glass fibre-reinforced polymer bar (GFRP-bar) reinforced concrete (RC) structures, leading to an

effective development of innovative standard guidelines. In this framework, the transition between tensile cracking and compression crushing failures occurring in GFRP-bar RC beams is described together with their structural ductility

(2) Solution to the problem of minimum reinforcement in fibre-reinforced or hybrid-reinforced concrete structures. Their behaviour is proved to be mainly influenced by fibre volume fraction and steel-bar reinforcement percentage coupled with their characteristic structural size. This dominant scale effect appears to be crucial to thoroughly understand fibre-reinforced or hybrid-reinforced concrete structural behaviour under flexural loading or low-cycle fatigue

(3) Formulation of a comprehensive theoretical framework for prestressed high-performance concrete structures. The correct estimation of scale effects on minimum and maximum reinforcement percentages requires a thorough knowledge of the complex phenomena characterizing the tensile cracking and compression crushing failures, leading to define the field in which prestressed high-performance concrete structures can develop a safe ductile behaviour. New standard requirements for an effective structural design are formulated

MAJOR INVITED PRESENTATIONS AT INTERNATIONAL CONFERENCES AND ADVANCED SCHOOLS

Keynote lecture on “Fibre-reinforced and hybrid-reinforced concrete: An updated Bridged Crack Model with softening pull-out forces”, 7th World Congress on Civil, Structural, and Environmental Engineering (CSEE'22), Lisbon-Portugal, 2022

Invited seminars on “Next-generation Reinforced Concrete”: (1) “Prestressed High-performance Concrete Structures”; (2) “FRP-bar Reinforced Concrete Structures”; (3) “Fiber-reinforced or Hybrid-reinforced Concrete Structures”. Shantou University, Guangdong-China, 2021

Invited lecture on “Influence of mechanical instabilities on acoustic emission signal processing in progressive microcracking coalescence”, 7th 269-IAM RILEM Meeting on Damage Assessment in Consideration of Repair/Retrofit-Recovery in Concrete and Masonry Structures by Means of Innovative NDT, Turin-Italy, 2019

Keynote lecture on “The Bridged Crack Model with multiple fibres: Scale effects and local instabilities”, 10th European Solid Mechanics Conference (ESMC10), Bologna-Italy, 2018

SCIENTIFIC PUBLICATIONS

International Peer-reviewed Journals

- 1) A. Carpinteri, G. Lacidogna, F. Accornero, A. Mpalaskas, T. Matikas, D. Aggelis, “Influence of damage in the Acoustic Emission parameters”, *Cement and Concrete Composites*, 2013, 44:9-16. **[I.F.: 7.586]**
- 2) A. Carpinteri, G. Lacidogna, S. Invernizzi, F. Accornero, “The Sacred Mountain of Varallo in Italy: Seismic risk assessment by Acoustic Emission and structural numerical models”, *The Scientific World Journal*, 2013, 1-10. **[I.F.: 2.103]**
- 3) G. Niccolini, O. Borla, F. Accornero, G. Lacidogna, A. Carpinteri, “Scaling in damage by electrical resistance measurements”, *Rendiconti Lincei*, 2014, 26:203-209. **[I.F.: 1.627]**
- 4) A. Carpinteri, G. Lacidogna, F. Accornero, "Evolution of the fracturing process in masonry arches", *Journal of Structural Engineering (ASCE)*, 2015, 141:04014132. **[I.F.: 3.312]**

- 5) A. Carpinteri, G. Lacidogna, F. Accornero, S. Invernizzi, "Numerical simulation of the fracturing processes in masonry arches", *Proceedings in Applied Mathematics and Mechanics*, Vol. 15 (2015), 131-132.
- 6) F. Accornero, G. Lacidogna, A. Carpinteri, "Evolutionary fracture analysis of masonry arches: Effects of shallowness ratio and size scale", *Comptes Rendus Mécanique*, 2016, 344:623-630. **[I.F.: 2.086]**
- 7) A. Carpinteri, F. Accornero, "Multiple snap-back instabilities in progressive microcracking coalescence", *Engineering Fracture Mechanics*, 2018, 187:272-281. **[I.F.: 4.406]**
- 8) F. Accornero, G. Lacidogna, A. Carpinteri, "Medieval arch bridges in the Lanzo Valleys, Italy: Incremental structural analysis and fracturing benefit", *Journal of Bridge Engineering (ASCE)*, 2018, 23(7):05018005. **[I.F.: 3.066]**
- 9) A. Carpinteri, G. Lacidogna, F. Accornero, "Fluctuations of 1/f noise in damaging structures analyzed by Acoustic Emission", *Applied Sciences*, 2018, 8:1685. **[I.F.: 2.679]**
- 10) G. Lacidogna, F. Accornero, "Elastic, plastic, fracture analysis of masonry arches: A multi-span bridge case study", *Curved and Layered Structures*, 2018, 5:1-9. **[I.F.: 1.680]**
- 11) G. Lacidogna, F. Accornero, A. Carpinteri, "Influence of snap-back instabilities on Acoustic Emission damage monitoring", *Engineering Fracture Mechanics*, 2019, 210:3-12. **[I.F.: 4.406]**
- 12) A. Carpinteri, F. Accornero, "Rotation versus curvature fractal scaling in bending failure", *Physical Mesomechanics*, 2019, 22:46-51. **[I.F.: 1.850]**
- 13) N. Viale, F. Accornero, G. Lacidogna, G. Ventura, "AE characterization of brick masonry walls mechanical behavior: The case-study of Alessandria and Boves barracks", *Key Engineering Materials*, 2019, 817:563-570. **[I.F.: 0.350]**
- 14) A. Carpinteri, F. Accornero, "Static-kinematic duality in the shells of revolution: Historical aspects and present developments", *Archive of Applied Mechanics*, 2019, 89:2313-2320. **[I.F.: 1.976]**

- 15) A. Carpinteri, F. Accornero, "The Bridged Crack model with multiple fibers: Local instabilities, scale effects, plastic shake-down, and hysteresis", *Theoretical and Applied Fracture Mechanics*, 2019, 104:102351. **[I.F.: 4.017]**
- 16) A. Carpinteri, F. Accornero, "Residual crack opening in fiber-reinforced structural elements subjected to cyclic loading", *Strength, Fracture and Complexity*, 2020, 12(2-4):63-74. **[I.F.: 0.227]**
- 17) A. Grazzini, F. Accornero, G. Lacidogna, S. Valente, "Acoustic emission and numerical analysis of the delamination process in repair plasters applied to historical walls", *Construction and Building Materials*, 2020, 236:117798. **[I.F.: 6.141]**
- 18) F. Accornero, A. Rubino, A. Carpinteri, "Ductile-to-brittle transition in fibre-reinforced concrete beams: Scale and fibre volume fraction effects", *Material Design & Processing Communication*, 2020, 2(6):e127.
- 19) G. Lacidogna, G. Piana, F. Accornero, A. Carpinteri, "Multi-technique damage monitoring of concrete beams: Acoustic Emission, Digital Image Correlation, Dynamic Identification", *Construction and Building Materials*, 2020, 242:118114. **[I.F.: 6.141]**
- 20) F. Accornero, G. Lacidogna, "Safety assessment of masonry arch bridges considering the fracturing benefit", *Applied Sciences*, 2020, 10:3490. **[I.F.: 2.679]**
- 21) F. Accornero, R. Cafarelli, A. Carpinteri, "Cracking and crushing in prestressed concrete beams", *Structural Journal (ACI)*, 2021, 118(2):101-109. **[I.F.: 1.744]**
- 22) E. Verstryngge, G. Lacidogna, F. Accornero, A. Tomor, "A review on acoustic emission monitoring for damage detection in masonry structures", *Construction and Building Materials*, 2021, 268:121089. **[I.F.: 6.141]**
- 23) F. Accornero, R. Cafarelli, A. Carpinteri, "The Cohesive/Overlapping Crack Model for plain and reinforced concrete beams: Scale effects on cracking and crushing failures", *Magazine of Concrete Research*, 2022, 74(9):433–450. DOI: 10.1680/jmacr.20.00260. **[I.F.: 2.503]**
- 24) A. Carpinteri, F. Accornero, "Dimensional analysis of critical phenomena: Self-weight failure, turbulence, resonance, fracture", *Physical Mesomechanics*, 2021, 24(4):459-463. DOI: 10.1134/S102995992104010X **[I.F.: 1.850]**
- 25) F. Accornero, A. Carpinteri, "Funicularity in elastic domes: Coupled effects of shape and thickness", *Curved and Layered Structures*, 2021, 8:181-187. **[I.F.: 0.412]**

- 26) A. Carpinteri, F. Accornero, R. Cafarelli, "Scale-dependent maximum reinforcement percentage in RC beams", *Structural Concrete (FIB)*, 2021, 22:2155-2166. DOI: 10.1002/(ISSN)1751-7648 **[I.F.: 3.131]**
- 27) Z. Zhu, P. Gui, H. Teng, F. Accornero, "Analysis of secondary stresses in bridge orthotropic decks induced by solar radiation thermal gradient", *Engineering Mechanics (Gong Cheng Li Xue)*, 2021, 39:1-14. DOI: 10.6052/j.issn.1000-4750.2021.04.0313 **[I.F.: 0.980]**
- 28) F. Accornero, A. Carpinteri, "Ponti ad arco in muratura: Analisi evolutiva del processo di fessurazione", *Archi*, 2021, 5:9-11.
- 29) A. Carpinteri, F. Accornero, R. Cafarelli, "Scale effects in prestressed concrete structures: Maximum reinforcement percentage to avoid brittle crushing", *Engineering Structures*, 2022, 255(5):113911. DOI: 10.1016/j.engstruct.2022.113911 **[I.F.: 4.471]**
- 30) F. Accornero, A. Rubino, A. Carpinteri, "Post-cracking regimes in the flexural behaviour of fibre-reinforced concrete beams", *International Journal of Solids and Structures*, 2022, 248:111637. DOI: 10.1016/j.ijsolstr.2022.111637 **[I.F.: 3.900]**
- 31) F. Accornero, A. Rubino, A. Carpinteri, "Ultra-low cycle fatigue (ULCF) in fibre-reinforced concrete beams", *Theoretical and Applied Fracture Mechanics*, 2022. DOI: 10.1016/j.tafmec.2022.103392 **[4.017]**

[Total I.F.: 85.481]

Book Chapters

- 1) F. Accornero, S. Invernizzi, G. Lacidogna, A. Carpinteri, "The Sacred Mountain of Varallo renaissance complex in Italy: Damage analysis of decorated surfaces and structural supports", in: *Acoustic, Electromagnetic, Neutron Emissions from Fracture and Earthquakes*, Chapter 17, Editors: A. Carpinteri, G. Lacidogna, A. Manuello, Springer, Heidelberg (2015), 249-264.
- 2) G. Lacidogna, A. Manuello, G. Niccolini, F. Accornero, A. Carpinteri, "Acoustic emission wireless monitoring of structures", in: *Acoustic Emission and Related Non-destructive Evaluation Techniques in the Fracture Mechanics of Concrete*, Chapter 2, Editor: M. Ohtsu, Woodhead Publishing, Cambridge (2015), 15-40.

- 3) G. Lacidogna, F. Accornero, A. Carpinteri, "Masonry structures", in: *Innovative AE and NDT Techniques for On-site Measurement of Concrete and Masonry Structures*. RILEM Bookseries, Chapter 3, Editor: M. Ohtsu, Springer, Heidelberg (2016), 27-46.
- 4) G. Lacidogna, S. Invernizzi, F. Accornero, A. Carpinteri, "Il Sacro Monte di Varallo: Valutazione del rischio sismico tramite monitoraggio con le Emissioni Acustiche e modelli numerici strutturali", in: *Il Patrimonio Pittorico Murale dei Sacri Monti: Monitoraggio, Valorizzazione e Recupero*, Capitolo 5, Editor: A. Carpinteri, Aracne, Roma (2017), 61-84.
- 5) F. Accornero, S. Invernizzi, G. Lacidogna, A. Carpinteri, "Analisi del danneggiamento delle murature affrescate tramite la tecnica delle Emissioni Acustiche", in: *Il Patrimonio Pittorico Murale dei Sacri Monti: Monitoraggio, Valorizzazione e Recupero*, Capitolo 6, Editor: A. Carpinteri, Aracne, Roma (2017), 85-108.
- 6) G. Niccolini, O. Borla, F. Accornero, G. Lacidogna, A. Carpinteri, "Proprietà di scala del danneggiamento da misure di resistenza elettrica: Un'applicazione alle statue in terracotta del Complesso rinascimentale del Sacro Monte di Varallo", in: *Il Patrimonio Pittorico Murale dei Sacri Monti: Monitoraggio, Valorizzazione e Recupero*, Capitolo 7, Editor: A. Carpinteri, Aracne, Roma (2017), 109-120.
- 7) A. Grazzini, G. Lacidogna, S. Valente, F. Accornero, "Detachment Monitoring of Repair Mortar Applied to Historical Masonry Stone by Acoustic Emission Technique", in: *Structural Analysis of Historical Constructions*, RILEM Bookseries, Editors: R. Aguilar, D. Torrealva, S. Moreira, M.A. Pando, L.F. Ramos, vol 18. Springer, Cham (2019), 2197-2205.
- 8) G. Lacidogna, G. Niccolini, F. Accornero, A. Carpinteri, "Acoustic emission wireless monitoring of structures" in: *Acoustic Emission and Related Non-Destructive Evaluation Techniques in the Fracture Mechanics of Concrete*, Second Edition, Chapter 2, Editor: M. Ohtsu, Woodhead Publishing, January 2021, DOI: 10.1016/B978-0-12-822136-5.00002-2
- 9) G. Lacidogna, G. Piana, F. Accornero, A. Carpinteri, "Multitechnique damage monitoring: application to concrete beams" in: *Acoustic Emission and Related Non-Destructive Evaluation Techniques in the Fracture Mechanics of Concrete*, Second Edition, Chapter 14, Editor: M. Ohtsu, Woodhead Publishing, January 2021, DOI: 10.1016/B978-0-12-822136-5.00014-9

- 10) E. Verstrynge, G. Lacidogna, F. Accornero, "AE in Masonry", in: *Acoustic Emission Testing*, Chapter 15, Editors: C.U. Grosse et al., Springer, Heidelberg (2021), 361-402.

Conference Proceedings

- 1) F. Accornero, S. Invernizzi, G. Lacidogna, A. Carpinteri, "Acoustic Emission and damage analysis of decorated surface structural supports", *19th European Conference on Fracture: Fracture Mechanics for Durability, Reliability and Safety, ECF 2012*, 2012.
- 2) A. Carpinteri, S. Invernizzi, G. Lacidogna, F. Accornero, "Acoustic Emission monitoring of frescos degradation in a XVII Century chapel of the Sacred Mountain of Varallo (Italy)", *Structural Analysis of Historical Constructions – Jerzy Jasinko (ed)*, Wroclaw, Poland, 2012.
- 3) G. Lacidogna, F. Accornero, M. Corrado, A. Carpinteri, "Crushing and fracture energies in concrete specimens monitored by Acoustic Emission", *Proceedings of the 8th International Conference on Fracture Mechanics of Concrete and Concrete Structures, FraMCoS 2013*, 2013, Pages 1726-1736.
- 4) A. Carpinteri, G. Lacidogna, A. Manuello, G. Niccolini, F. Accornero, "Correlation between Acoustic Emission and Seismicity in the Sacred Mountain of Varallo Renaissance Complex in Italy", *Proceedings of the 13th International Conference on Fracture (ICF13)*, Beijing, China, 2013.
- 5) F. Accornero, G. Lacidogna, S. Invernizzi, A. Carpinteri, "Stability assessment of masonry arches by evolutionary fracturing process analysis", *Proceedings of the 21st Congress of the Italian Society of Theoretical and Applied Mechanics (AIMETA XXI)*, Turin, Italy, 2013.
- 6) G. Lacidogna, S. Invernizzi, F. Accornero, A. Carpinteri, "The Sacred Mountain of Varallo Complex in Italy: Correlation between structural damage and local seismicity", *Proceedings of the 21st Congress of the Italian Society of Theoretical and Applied Mechanics (AIMETA XXI)*, Turin, Italy, 2013.
- 7) G. Niccolini, O. Borla, F. Accornero, G. Lacidogna, A. Carpinteri, "Mechanical damage of historical terracotta statues analyzed by electrical resistance measurements", *Proceedings of the 21st Congress of the Italian Society of Theoretical and Applied Mechanics (AIMETA XXI)*, Turin, Italy, 2013.

- 8) E. Di Battista, G. Lacidogna, S. Invernizzi, F. Accornero, O. Borla, A. Carpinteri, "Acoustic Emission and fracture energy dissipation in notched concrete beams subjected to three-point bending tests", *Proceedings of the 21st Congress of the Italian Society of Theoretical and Applied Mechanics (AIMETA XXI)*, Turin, Italy, 2013.
- 9) G. Lacidogna, P. Cutugno, F. Accornero, S. Invernizzi, A. Carpinteri, "Evaluation of seismic risk in regional areas by AE monitoring of historical buildings", *Proceedings of the 6th International Conference on Emerging Technologies in NDT (6th ETNDT)*, Brussels, Belgium, (2015), 433-439.
- 10) F. Accornero, G. Lacidogna, A. Carpinteri, "Influence of mechanical instabilities on acoustic emission signal processing for natural materials in compression", *Proceedings of ICF 2017 - 14th International Conference on Fracture*, Rhodes; Greece (2017) 2: 1192-1193
- 11) S. Invernizzi, G. Lacidogna, B. Montrucchio, F. Accornero, A. Carpinteri, "Experimental analysis of ultrasound vibrations induced in solids", *Proceedings of ICF 2017 - 14th International Conference on Fracture*, Rhodes; Greece (2017) 2:65-66
- 12) G. Lacidogna, G. Piana, F. Accornero, A. Carpinteri, "Experimental investigation on crack growth in pre-notched concrete beams", *Proceedings of the 8th International Conference on Experimental Mechanics (ICEM18)*, Brussels, Belgium, 2018, DOI:10.3390/ICEM18-05287.
- 13) A. Grazzini, G. Lacidogna, S. Valente, F. Accornero, "Delamination of plasters applied to historical masonry walls: Analysis by acoustic emission technique and numerical model", *Proceedings of the International Conference on Material Strength and Applied Mechanics, MSAM 2018*, Kitakyushu City, Japan, 2018. IOP Conference Series: Materials Science and Engineering, Volume 372, Issue 1, 12 June 2018, Article number 012022, DOI: 10.1088/1757-899X/372/1/012022.
- 14) A. Carpinteri, F. Accornero, "Ductile-to-brittle transition in fiber-reinforced brittle-matrix composites: Scale and fiber volume fraction effects", *Proceedings of the 10th International Conference on Fracture Mechanics of Concrete and Concrete Structures (FraMCoS-X)*, Bayonne, France, 2019, DOI: 10.21012/FC10.234076.
- 15) F. Accornero, A. Carpinteri, "Ductile-to-brittle transition in fiber-reinforced brittle-matrix composites: Discontinuous phenomena and optimization of the components", In: Carcaterra A., Paolone A., Graziani G. (Eds), *Proceedings of XXIV AIMETA*

Conference 2019 (AIMETA 2019), pp. 550-557. *Lecture Notes in Mechanical Engineering*, Springer, Cham. DOI: 10.1007/978-3-030-41057-5_45.

- 16) A. Carpinteri, F. Accornero, R. Cafarelli, "Ductile-to-brittle transition in RC and PC beams: Scale effects on minimum and maximum reinforcements", In: Zhao B., and Lu X. (Eds), *Proceedings of the FIB Symposium 2020*, Shanghai, China, 2020, pp. 1155-1162.
- 17) R. Cafarelli, F. Accornero, A. Carpinteri, "Scale-dependent minimum and maximum reinforcement ratios in RC and PC beams", *Proceedings of the FIB Symposium 2021*, Lisbon, Portugal, 2021, pp. 1588-1597.
- 18) A. Rubino, F. Accornero, A. Carpinteri, "Post-cracking structural behaviour in FRC beams: Scale effects and minimum fibre volume fraction", *Proceedings of the FIB Symposium 2021*, Lisbon, Portugal, 2021, pp. 622-631.

April, 2022



Ministero dell'Università e della Ricerca

SEGRETARIATO GENERALE

Direzione generale delle istituzioni della formazione superiore

N: 4447

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Federico ACCORNERO
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OGGETTO: ASN 2018/2020 - Attestazione di avvenuto conseguimento dell'Abilitazione Scientifica Nazionale alle funzioni di professore universitario di Seconda Fascia nel Settore Concorsuale 08/B2 - SCIENZA DELLE COSTRUZIONI.

Con la presente si attesta che Federico ACCORNERO, nato a Asti (AT) il giorno 06/06/1983, ha conseguito, all'esito delle procedure di Abilitazione Scientifica Nazionale bandite con decreto direttoriale n. 2175/2018, l'Abilitazione Scientifica Nazionale alle funzioni di professore universitario di seconda fascia nel Settore Concorsuale 08/B2 - SCIENZA DELLE COSTRUZIONI.

La validità dell'Abilitazione è di dieci anni¹ a decorrere dal 11/01/2022 e avrà scadenza il 11/01/2032².

Roma, 29/04/2022

La Dirigente
Dott.ssa Maria Giovanna Zilli³

¹ Termine prorogato ai sensi dell'art. 6, co. 4 bis del D.L. 30 dicembre 2021, n. 228, coordinato con la legge di conversione 25 febbraio 2022, n. 15, recante: «Disposizioni urgenti in materia di termini legislativi».

² Gli elenchi dei candidati abilitati sono sempre consultabili sul sito <https://abilitazione.miur.it>, sezione "CANDIDATI E RISULTATI", cliccando sull'anno della tornata di interesse, link "Risultati".

³ Firma autografa sostituita a mezzo stampa ai sensi e per gli effetti dell'art. 3, co.2, D. Lgs. n.39/1993.

Il Responsabile del procedimento: La Dirigente Dott.ssa Maria Giovanna Zilli

Ufficio V "Coordinamento dello stato giuridico ed economico del personale universitario"
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Ministero dell'Università e della Ricerca

SEGRETARIATO GENERALE

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Courtesy translation of the original document in Italian language.

We hereby certify that Federico ACCORNERO, born in Asti (AT) on 06/06/1983, achieved the National Scientific qualification as associate in the Italian higher education system, in the call 2018/2020 (Ministerial Decree n. 2175/2018) for the disciplinary field of 08/B2 - Structural mechanics. (Academic Recruitment Field 08/B - Structural and geotechnical engineering, according to the national classification).

The validity of the qualification is ten years¹, starting from the 11/01/2022 and will expire on the 11/01/2032².

Rome, 29/04/2022

La Dirigente
Dott.ssa Maria Giovanna Zilli³

¹ Termine prorogato ai sensi dell'art. 6, co. 4 bis del D.L. 30 dicembre 2021, n. 228, coordinato con la legge di conversione 25 febbraio 2022, n. 15, recante: «Disposizioni urgenti in materia di termini legislativi».

² The list of qualified candidates are always available on the website <https://abilitazione.miur.it>, "CANDIDATI E RISULTATI" section, by clicking on the year of the session of interest, link "Risultati".

³ Firma autografa sostituita a mezzo stampa ai sensi e per gli effetti dell'art. 3, co.2, D. Lgs. n.39/1993.

Il Responsabile del procedimento: La Dirigente Dott.ssa Maria Giovanna Zilli

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