

CONFERENCE TOPICS

- Inspection, classification, assessment, control, and monitoring of existing bridges, viaducts, and tunnels.
- Assessment of structural-foundation risk, seismic risk, landslide risk, and hydraulic risk.
- Identification of interfering hydraulic phenomena and geological context.
- Diagnostics: destructive and non-destructive testing, identification of degradation and damage phenomena.
- Structural Health Monitoring of bridges, viaducts, and tunnels.
- Post-processing monitoring data for damage identification, numerical model updating, and assessment of existing structures.
- Static and dynamic experimental analysis.
- Strategies for assessing the structural reliability of existing bridges.
- Exceptional actions and extreme events.
- Evaluation and modelling strategies for anthropogenic actions. Exceptional transport loads.
- Long-span bridges.
- Historical bridges.
- Modelling and structural analysis of existing bridges, viaducts, and tunnels.
- Damage and degradation models.
- Models for environmental actions, and for actions resulting from interactions with hydraulic or geological contexts.
- Strengthening/retrofitting interventions; seismic isolation; energy dissipation systems.
- Data analysis and artificial intelligence, data fusion and information transfer.
- BIM and digitalization.
- Network resilience and assessment of road and transport risk.
- Multi-risk analysis for the management and evaluation of interventions.
- Management and maintenance of infrastructures. Real-time assessment of the residual service life for predictive maintenance strategies.

ORGANIZING COMMITTEE

Walter Salvatore, Università di Pisa
Paolo Clemente, Consorzio Fabre
Fabrizio Paolacci, Università Roma Tre
Alessio Lupoi, Sapienza Università di Roma
Agnese Natali, Università di Pisa
Isabella Mazzatura, Università di Pisa
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CONFERENCE SECRETARIAT AND CONTACTS

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3rd FABRE CONFERENCE

Existing Bridges, Viaducts and Tunnels: Research, Innovation, and Applications

FINAL PROGRAMME

February 16-19, 2026

Auditorium della Tecnica - Rome



Consorzio di ricerca per la valutazione e
il monitoraggio di ponti, viadotti e altre strutture
www.consorziofabre.it

IN COLLABORATION WITH



Day I	08:45 - 09:30	Institutional Greetings Opening of the Conference Massimo Sessa (Consiglio Superiore dei Lavori Pubblici), Domenico Capomolla (ANSFISA), Angelo Gemelli (Anas S.p.A.) Keynote lecture Achille Devitofranceschi (Stretto di Messina S.p.A.) <i>Crossing infrastructure of the Stretto di Messina - performance and technical aspects</i> Invited speech Silvia Paparella (Ferrara Expo srl) <i>Dissesto idrogeologico e infrastrutture di trasporto alla luce del primo Libro Bianco</i>
	09:30 - 10:15	
	10:15 - 11:00	
	11:00 - 11:15	
	11:15 - 11:30	Round Table <i>Load modeling and response of long span bridges to extreme (non-synoptic) winds</i> Moderators: Claudio Borri (IAWE, Università di Firenze, Italy) Fabio Brancaleoni (E.D.I.N. S.r.l. e Sapienza Università di Roma, Italy), Andrea Dari (INGENIO) Participants: Allan Larsen (COWI & DTU, Denmark), Santiago Hernandez Ibanez (Universidad de La Coruña, Spain), Maria Pia Repetto (Università di Genova, Italy), Giorgio Diana (Politecnico di Milano, Italy) Lunch Break Keynote lecture Diego Panici (University of Exeter, UK) - <i>Built to last?</i> <i>Identifying and quantifying hydraulic actions from large woody debris accumulations at bridges</i> Keynote lecture Edward Nicholas Bromhead (Consultant, and formerly Kingston University, UK) - <i>Ground movements and their effects on bridges</i> Coffee Break Presentation of the Papers
	11:30 - 12:45	
	12:45 - 14:15	
	14:15 - 15:00	
Day II	15:00 - 15:45	Presentation of the Papers Special session: <i>Open issues around existing long span bridges</i> Opening report: Alessandro Catanzano (Santo Engineering S.r.l., Italy), Filippo Berto (Sapienza Università di Roma, Italy) - <i>Mitigating Fatigue in Steel Megastructures through Monitoring-Derived Real Load Spectra</i> Coffee Break Round Table <i>Assessment and Monitoring of existing bridges and viaducts: evolution of standards at national and international level</i> Moderators: Franco Braga (Sapienza Università di Roma, Italy), Walter Salvatore (Università di Pisa e Consorzio Fabre, Italy), Andrea Dari (INGENIO) Participants: Emanuele Renzi (ANSFISA, Italy), Mauro Giancaspro (Anas S.p.A., Italy) Paolo Franchin (Sapienza Università di Roma, Italy), Giuseppe Scarpelli (Ges Geotecnica, Italy), Armando Brath (Università degli studi di Bologna, Italy), Francesco Ballio (Politecnico di Milano, Italy), Andrea Prata (Università degli studi di Napoli Federico II, Italy), Sebastian Thöns (Lund University, Sweden), Sébastien Burlon (CEREMA, Vice-President SC7 Eurocodice 7, France), Anil Agrawal (The City College of New York, USA), Marcello Paolucci (Ministero delle Infrastrutture e dei Trasporti, Italy), Simone Puggelli (Consiglio Superiore dei Lavori Pubblici, Italy), Telemachos Panagiotakos (DENCO Structural Engineering PC, Greece), Aftab Mufti (University of Manitoba, Canada), Sreenivas Alampalli (Alampalli Engineering, USA)
	15:45 - 16:00	
	16:00 - 18:30	
	13:00 - 14:15	Lunch Break

14:15 - 15:45	Round Table <i>Underground railway engineering: prospects for innovation</i> Moderators: Bernardino Chiaia (Politecnico di Torino, Italy), Federico Accornero (Università telematica internazionale UNINETTUNO, Italy), Andrea Dari (INGENIO) Participants: Angelo Mautone (Ministero delle Infrastrutture e dei Trasporti, Italy), Arrigo Giana (Autostrade per l'Italia S.p.A., Italia), Carlo Bianco (ATM Salonicco, Italy), Andrea Sciotti (Roma Metropolitane, Italy), Francesco Azzarone (InfoTrasporti Torino, Italy), Paolo Marchetti (SYSTRA Italy, Italy), Raffaele De Luca (HITACHI Rail, Japan), Nicolas Patin (Grand Paris, France) Coffee Break Presentation of the Papers Special session: <i>Open issues around existing long span bridges</i> Opening report: Haizhu Xiao (China Railway Major Bridge Reconnaissance & Design Institute Co., Ltd. (BRDI), China) <i>Design and aerodynamic performance of the Xihoumen Bridge</i> Gala dinner - Palazzo Brancaccio, Viale del Monte Oppio 7, 00184 Roma
15:45 - 16:00	
16:00 - 18:30	
20:30	Day III 09:00 - 09:15 09:15 - 11:00 11:00 - 11:15 11:15 - 13:15 Greetings and opening of the III day Dario Lo Bosco (ITALFERR) Presentation of the Papers Coffee Break Rounds tables <i>Design and implementation of safety measures for existing tunnels</i> Moderators: Daniele Peila (Politecnico di Torino, Italy), Pier Luigi Navone (ANSFISA, Italy), Andrea Dari (INGENIO) Participants: Francesco Morelli (Università di Pisa, Italy), Andrea Carigi (Politecnico di Torino, Italy), Luca Distasi (Geie-Trafoiro Monte Bianco, Italy), Davide Merlini (ARX Smart Minds, Switzerland), Andrea Pigorini (ITALFERR S.p.A., Italy), Annalisa Pranno (RFI S.p.A., Italy), Antonella Antonelli (MM S.p.A., Italy), Carlo Ricciardi (Consiglio Superiore dei Lavori Pubblici, Italy), Stefano Zampino (ANSFISA, Italy), Sébastien Bouteille (Center for Tunnel Studies, France), Gianluca Bordi (SINA S.p.A., Italy), Lapo Baccolini (Tecne S.p.A., Italy), Enrico Mittiga (Anas S.p.A., Italy), Domenico Renda (Anas S.p.A., Italy), Giuseppe Lunardi (Rocksoil S.p.A., Italy) Lunch Break Keynote lecture Farhad Ansari (University of Illinois at Chicago, USA) - <i>Structural Health Monitoring of Bridges with optical fiber sensors</i> Keynote lecture Van de Velde Didier (Infrabel - Asset Lifecycle, Belgium) - <i>Railway Bridges Maintenance: UIC Technical Standards, operational strategies and ongoing activities</i> Coffee Break Presentation of the Papers
13:15 - 14:15	
14:15 - 15:00	
15:00 - 15:45	Day IV 09:00 - 10:00 10:00 - 10:45 10:45 - 11:00 11:00 - 11:45 Presentation of the Papers Keynote lecture Luca Mari (SINA S.p.A., Italy) e Alfonso Ratti (ITINERA S.p.A., Italy) <i>Design & Construction Management: from the Project to the Construction.</i> <i>Description of some typical case studies in the field of infrastructure maintenance</i> Coffee Break Keynote lecture Mitsuyoshi Akiyama (Waseda University, Japan) - <i>Lessons from Japan: Toward Life-Cycle and Network-Based Resilience of Existing Bridges under Multi-Hazard Events</i>
15:45 - 16:00	
16:00 - 18:30	

11:45 - 13:00	Presentation of the Papers Lunch Break Technical seminar: <i>Application aspects of the Italian Guidelines for the Classification and Risk Management, Safety Assessment, and Monitoring of Existing Bridges</i> Moderators: Giuseppina Uva (Politecnico di Bari, Italy), Emanuele Renzi (ANSFISA, Italy), Andrea Dari (INGENIO) Participants: Walter Salvatore (Università di Pisa e Consorzio Fabre, Italy), Michele Mori (SINA S.p.A., Italy), Giuseppe Pasqualato (SINA S.p.A., Italy), Fabrizio Colla (Tecne S.p.A., Italy), Marilisa Conte (Autostrade per l'Italia S.p.A., Italy), Paolo Mannella (Anas S.p.A., Italy), Francesco Ballio (Politecnico di Milano, Italy) Paolo Simonini (Università degli Studi di Padova, Italy), Simone Puggelli (Consiglio Superiore dei Lavori Pubblici, Italy), Francesca Buttarazzi (Autostrade per l'Italia S.p.A., Italy) Carlo Ricciardi (Consiglio Superiore dei Lavori Pubblici, Italy), Giovanni Luca Zagardo (Città Metropolitana di Torino, Italy), Luca Marta (Regione Lazio, Italy), Marco Taccini (Veneto Strade S.p.A., Italy), Sabato Fusco (Autostrada Pedemontana Lombarda S.p.A.) Closing ceremony Closing Aperitif
13:00 - 14:15	
14:15 - 16:30	
16:30 - 17:00	
17:00	

GENERAL INFORMATION

CONFERENCE PROCEEDINGS
The Conference Proceedings will be published in Procedia Structural Integrity (an ELSEVIER journal indexed in SCOPUS) . Articles must be written in English, following the Template available for download at <https://eventi.consorziofabre.it>. Oral presentations only are also allowed. Authors may submit an expanded and revised version of their article to the International Journal of Bridge Engineering, Management and Research (BER), <https://ijbemr.org/index.php/ber>. The first Author of the best paper, as judged by a dedicated Committee, will be awarded with the “Best Paper Prize” during the Conference, and will be exempt from the registration fee.

DEADLINES 31/07/2025:	Submission of abstracts (Upload via https://eventi.consorziofabre.it by logging into the reserved area)
	Notification of abstract acceptance (via email to the Corresponding Author)
15/10/2025:	Submission of full papers (to be uploaded by logging into the reserved area)
15/12/25- 15/01/2026:	Notification of full paper acceptance (via email to the Corresponding Author)
31/01/2026:	

REGISTRATION FEES - no VAT included	
Full Registration (including gala dinner):	€ 550 (early bird, until 26/01/2026) € 600 (after 26/01/2026)
Full Registration (excluding gala dinner):	€ 400 (early bird, until 26/01/2026) € 450 (after 26/01/2026)
Young Engineer (excluding gala dinner):	€ 300 (early bird, until 26/01/2026) € 350 (after 26/01/2026)
Post-docs, Research Fellows, PhD Candidates, and Graduating Students (excluding gala dinner):	€ 300 (early bird, until 26/01/2026) € 350 (after 26/01/2026)
Daily Pass (excluding gala dinner):	€ 150
Online Participation:	€ 150
Gala Dinner:	€ 150

MEETINGS AND OPPORTUNITIES FOR DISCUSSION
During the Conference days, Fabre provides several meeting rooms within the Auditorium della Tecnica for research meetings and discussion. For more information and reservations, please contact the Administrative Secretariat.