

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
Francesca Mattei, Università di Pisa
Chiara Ormando, ENEA
Gianluca Quinci, Università Roma Tre

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3rd FABRE CONFERENCE

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

UPDATED PROGRAMME AND PAPERS SUBMISSION

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

09:30 - 10:15

Opening of the Conference

Massimo Sessa (Consiglio Superiore dei Lavori Pubblici),
Domenico Capomolla (ANSFISA),
Angelo Gemelli (Anas S.p.A.)

10:15 - 11:00

Keynote lecture

Achille Devitofranceschi (Stretto di Messina S.p.A.)

Crossing infrastructure of the Stretto di Messina - performance and technical aspects

10:15 - 11:00

Invited speech

Silvia Paparella (Ferrara Expo srl)

Dissesto idrogeologico e infrastrutture di trasporto alla luce del primo Libro Bianco

11:15 - 11:30

Coffee Break

11:30 - 12:15

Round Table

Load modeling and response of long span bridges to extreme (non-synoptic) winds

Moderators: **Claudio Borri** (IAWE, Università di Firenze, Italy)

Fabio Brancaloni (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 Coruna, Spain),

Maria Pia Repetto (Università di Genova, Italy),

Giorgio Diana (Politecnico di Milano, Italy)

12:15 - 13:00

Presentation of the Papers

13:00 - 14:15

Lunch Break

14:15 - 15:00

Keynote lecture

Diego Panici (University of Exeter, UK) - *Built to last?*

Identifying and quantifying hydraulic actions from large woody debris

accumulations at bridges

15:00 - 15:45

Keynote lecture

Edward Nicholas Bromhead (Consultant, and formerly Kingston University, UK) - *Ground movements and their effects on bridges*

15:45 - 16:00

Coffee Break

16:00 - 18:00

Presentation of the Papers**Day II**

09:00 - 10:45

Presentation of the Papers

Special session: Open issues around existing long span bridges

Opening report: Alessandro Catanzano (Santo Engineering S.r.l., Italy),

Filippo Berto (Sapienza Università di Roma, Italy) - *Mitigating Fatigue in*

Steel Megastructures through Monitoring-Derived Real Load Spectra

10:45 - 11:00

Coffee Break

11:00 - 13:00

Round Table

Assessment and Monitoring of existing bridges and viaducts: evolution of standards at national and international level

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 Prota (Università degli studi di Napoli Federico II, Italy),

Sebastian Thöns (Lund University, Sweden), **Sébastien Burlon** (CEREMA,

Vice-President SC7 Eurocode7, 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)

13:00 - 14:15

Lunch Break

14:15 - 15:45

Round Table

Underground railway engineering: prospects for innovation

Moderators: **Bernardino Chiaia** (Politecnico di Torino, 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

Salonico, Italy), **Andrea Sciotti** (Roma Metropolitana, Italy),

Francesco Azzarone (InfoTrasporti Torino, Italy),

Paolo Marchetti (SYSTRA Italy, Italy),

Jean-François Stoll (Grand Paris, France)

15:45 - 16:00

Coffee Break

16:00 - 18:00

Presentation of the Papers

Special session: Open issues around existing long span bridges

Opening report: Haizhu Xiao (China Railway Major Bridge

Reconnaissance & Design Institute Co., Ltd. (BRDI), China)

Design and aerodynamic performance of the Xihoumen Bridge

20:30

Gala dinner - Palazzo Brancaccio, Viale del Monte Oppio 7, 00184 Roma

Day III

09:00 - 10:45

Presentation of the Papers

10:45 - 11:00

Coffee Break

11:00 - 13:00

Rounds tables

Design and implementation of safety measures for existing tunnels

Moderators: **Daniele Peila** (Politecnico di Torino, Italy), **Andrea Dari** (INGENIO)

Participants: **Francesco Morelli** (Università di Pisa, Italy),

Andrea Carigi (Politecnico di Torino, Italy)

Davide Merlini (ARX Smart Minds, Switzerland),

Riccardo Rigacci (Geie-Traforo Monte Bianco, Italy)

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), **Lupo Baccolini** (Tecne S.p.A., Italy),

Domenico Renda (Anas S.p.A., Italy),

Giuseppe Lunardi (Rocksoil S.p.A., Italy)

13:00 - 14:15

Lunch Break

14:15 - 15:00

Keynote lecture

Farhad Ansari (University of Illinois at Chicago, USA) - *Structural Health*

Monitoring of Bridges with optical fiber sensors

15:00 - 15:45

Keynote lecture

Van de Velde Didier (Infrabel - Asset Lifecycle, Belgium) - *Railway Bridges*

Maintenance: UIC Technical Standards, operational strategies and ongoing activities

15:45 - 16:00

Coffee Break

16:00 - 18:00

Presentation of the Papers**Day IV**

09:00 - 10:00

Presentation of the Papers

10:00 - 10:45

Keynote lecture

Luca Mari (SINA S.p.A., Italy) e **Alfonso Ratti** (ITINERA S.p.A., Italy)

Design & Construction Management: from the Project to the Construction.

Description of some typical case studies in the field of infrastructure maintenance

10:45 - 11:00

Coffee Break

11:00 - 11:45

Keynote lecture

Mitsuyoshi Akiyama (Waseda University, Japan) - *Lessons from Japan:*

Toward Life-Cycle and Network-Based Resilience of Existing Bridges under

Multi-Hazard Events

11:45 - 13:00

Presentation of the Papers

13:00 - 14:15

Lunch Break

14:15 - 16:30

Technical seminar: Application aspects of the Italyn Guidelines for the Classification and Risk Management, Safety Assessment, and Monitoring of Existing Bridges

Moderators: **Giuseppina Uva** (Politecnico di Bari, Italy),

Emanuele Renzi (ANSFISA, Italy), **Andrea Dari** (INGENIO)

Participants: **Walter Salvatore** (Università di Pisa e Consorzio Fabre, Italy),

Lorenzo Lepori (Anas S.p.A., 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.)

16:30 - 17:00

Closing ceremony

17:00

Closing Aperitif

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)

15/10/2025:

Notification of abstract acceptance
(via email to the Corresponding Author)

15/12/25 - 15/01/2026:

Submission of full papers
(to be uploaded by logging into the reserved area)

31/01/2026:

Notification of full paper acceptance
(via email to the Corresponding Author)

REGISTRATION FEES - no VAT included

Full Registration (including gala dinner): € 550 (early bird, until 15/01/2026)
€ 600 (after 15/01/2026)

Full Registration (excluding gala dinner): € 400 (early bird, until 15/01/2026)
€ 450 (after 15/01/2026)

Young Engineer (excluding gala dinner): € 300 (early bird, until 15/01/2026)
€ 350 (after 15/01/2026)

Post-docs, Research Fellows, PhD Candidates, and Graduating Students (excluding gala dinner):
€ 300 (early bird, until 15/01/2026)
€ 350 (after 15/01/2026)

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.