

THE VENUE

Auditorium della Tecnica

Viale Umberto Tupini 65, 00144 Rome

The Centro Congressi Auditorium della Tecnica, located in the heart of the EUR district a well-known business area of Rome is a venue specifically designed for conferences and particularly suited for hosting corporate events.

Thanks to a renovation project completed in 2016, the Auditorium was updated with cutting-edge technology. Its modular spaces can accommodate a variety of activities, such as registration areas, exhibition zones, meetings, and corporate parties.

This prestigious venue, characterized by high-quality architectural elements, has been reimagined with a contemporary approach to reclaim its place in the national and international circuits of architecture and events.

The main hall for the Fabre 2026 Conference is the Plenaria Auditorium della Tecnica, which serves as the technological and functional heart of the conference center. It offers approximately 800 fixed seats, a 9-meter speaker table made up of modular and removable podiums and desks, two balconies for viewing the event, and three screens.

In addition, state-of-the-art lighting and audiovisual systems, along with equipment for simultaneous translation, ensure a high-quality experience.



IN COLLABORATION WITH



3rd FABRE CONFERENCE

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

**UPDATED PROGRAM,
ABSTRACT and PAPER SUBMISSION**

February 16-19, 2026

Auditorium della Tecnica - Rome

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

CONFERENCE SECRETARIAT AND CONTACTS

Virginia Risaliti

Consorzio FABRE

E-mail: virginia.risaliti@consorziofabre.it

Cell: 338 2229446

SCIENTIFIC SECRETARIAT

Agnese Natali

Università di Pisa

E-mail: segreteria.scientifica@consorziofabre.it

Tel: 050 2218246

Graphics and printing: Tipografia Editrice Pisana 050503526



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

CONFERENCE OVERVIEW

The methodology for managing existing infrastructure, introduced by the **Guidelines for the Classification and Risk Management, Safety Assessment, and Monitoring of Existing Bridges** and the subsequent **Operational Instructions** as well as the similar approach later adopted for existing tunnels has brought about a new level of awareness regarding Italy's infrastructure assets, enabling:

- the development of **widespread knowledge of all structures** and their state of preservation;
- the adoption of risk-based management decisions, not solely focused on safety, and extended beyond the structure itself to include its interaction with the **surrounding environment**;
- the **in-depth study** of structures identified as having higher risk classes;
- a **more conscious use of instrumental monitoring** to identify potential critical issues and to manage the integrity of structures;
- the analysis of risks from a network-wide infrastructure perspective, leading to the development of suitable procedures for prioritizing evaluation and intervention activities;

all of this has been systematized and organized through a standardized, nationally consistent approach. Scientific, technical-scientific, and technological research is now presented with a unique opportunity to analyze and study the problems affecting our infrastructure, such as those related to progressive structural deterioration and damage, as well as interfering anthropogenic, natural, and environmental factors, and to develop tools, techniques, technologies, methodologies, and artificial intelligence algorithms aimed at better and more efficient asset management.

This is made possible by the ongoing dialogue among researchers, asset managers, professional technicians, and institutions, each contributing within their domain of expertise, to the cultural and competitive growth of the entire sector, both nationally and internationally.

The **3rd Fabre Conference 2026** will therefore provide a valuable opportunity to compare recent experiences at both national and international levels, offering structured sessions for discussion and exchange with leading experts in the field, not only from scientific disciplines, but also from technical, technological, managerial, and institutional backgrounds

CONFERENCE TOPICS

- Inspection, classification, assessment, control, and monitoring of existing bridges, viaducts, and tunnels.
- Visual and instrumental inspections; new technologies for experimental evaluation of materials and structures.
- Diagnostics, destructive and non-destructive testing.
- Monitoring of bridges, viaducts, and tunnels; degradation/damage phenomena; interfering anthropogenic, environmental, and natural actions.
- Static and dynamic experimental analysis; damage assessment.
- Assessment of structural and foundation risk.
- Seismic risk assessment.
- Landslide risk assessment; effects of landslide phenomena on structures.
- Hydraulic risk assessment; evaluation of hydraulic actions; identification of interfering hydrogeological phenomena.
- Evaluation of interactions with hydraulic and geological contexts.
- Multi-risk analysis for management and prioritization of interventions.
- Strategies for assessing the structural reliability of existing bridges.
- Exceptional actions and climate change impacts.
- Assessment of anthropogenic actions; exceptional transport loads.
- Long-span bridges.
- Historical bridges.
- Inspection, analysis, and assessment of existing bridges and viaducts.
- Inspection, analysis, and assessment of natural and artificial tunnels.
- Structural modeling and analysis.
- Network resilience and assessment of road and transport-related risks.
- Fatigue phenomena; corrosion.
- Damage and deterioration models; models for interfering anthropogenic, natural, and environmental actions; residual service life evaluation.
- Data analysis and artificial intelligence; data fusion and information transfer to infrastructure networks.
- Retrofit and upgrading interventions; seismic isolation; energy dissipation systems.
- BIM and digitalization.
- Management and maintenance of infrastructure assets; evaluation of residual service life for predictive maintenance strategies.

I day	8:45 - 9:30	Institutional Greetings
	9:30 - 11:00	Opening of the Conference
	10:00 - 11:00	Keynote lecture: Achille Devitofranceschi (Stretto di Messina S.p.A.) <i>Crossing infrastructure of the Stretto di Messina - performance and technical aspects</i>
	11:00 - 11:15	Coffee Break
	11:15 - 13:00	Presentation of the Papers
II day	13:00 - 14:15	Lunch Break
	14:15 - 15:15	Keynote lecture: Diego Panici (University of Exeter) - <i>Built to last? Identifying and quantifying hydraulic actions from large woody debris accumulations at bridges</i>
	15:15 - 16:15	Keynote lecture: Edward Nicholas Bromhead (Consultant, and formerly Kingston University) - <i>Ground movements and their effects on bridges</i>
	16:15 - 16:30	Coffee Break
	16:30 - 18:00	Presentation of the Papers
III day	9:00 - 10:45	Presentation of the Papers
	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
	13:00 - 14:15	Lunch Break
	14:15 - 16:15	Round Table: Underground railway engineering: prospects for innovation
IV day	16:15 - 16:30	Coffee Break
	16:30 - 18:00	Presentation of the Papers
	20:30	Gala dinner - Palazzo Brancaccio, Viale del Monte Oppio 7, 00184 Roma
	9:00 - 10:45	Presentation of the Papers
	10:45 - 11:00	Coffee Break
IV day	11:00 - 13:00	Round Table: Design and implementation of safety measures for existing tunnels
	13:00 - 14:15	Lunch Break
	14:15 - 15:15	Keynote lecture: Farhad Ansari (University of Illinois at Chicago) <i>Structural Health Monitoring of Bridges with optical fiber sensors</i>
	15:15 - 16:15	Keynote lecture: Van de Velde Didier (Infrabel) <i>Railway Bridges Maintenance: UIC Technical Standards, operational strategies and ongoing activities</i>
	16:15 - 16:30	Coffee Break
IV day	16:30 - 18:00	Presentation of the Papers
	9:00 - 10:00	Presentation of the Papers
	10:00 - 11:00	Keynote lecture: Luca Mari (SINA S.p.A.) e Alfonso Ratti (ITINERA S.p.A.) <i>Design & Construction Management: from the Project to the Construction. Description of some typical case studies in the field of infrastructure maintenance</i>
	11:00 - 11:15	Coffee Break
	11:15 - 13:00	Presentation of the Papers
IV day	13:00 - 14:15	Lunch Break
	14:15 - 16:30	Technical seminar: Application aspects of the Italian Guidelines for the Classification and Risk Management, Safety Assessment, and Monitoring of Existing Bridges
	16:30 - 17:00	Closing ceremony
	17:00	Closing Cocktail Reception

PRELIMINARY PROGRAM

GENERAL INFORMATION

CONFERENCE PROCEEDINGS

Abstract Submission, full papers and oral presentations

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 that will soon be available for download at <https://eventi.consortiofabre.it>.

Oral presentations only, without publication in the Conference Proceedings, are also allowed. In this case, the abstract must still be uploaded to the participant's reserved area, selecting the option "oral presentation only." No full paper submission is required in this case.

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.consortiofabre.it> by logging into the reserved area)

15/09/2025

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

30/11/2025

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

20/12/2025

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

MEETINGS AND OPPORTUNITIES FOR DISCUSSION

During the Conference days, Fabre provides several meeting rooms within the Auditorium della Tecnica for research meetings and discussion sessions on the Conference topics. For more information and reservations, please contact the Conference Administrative Secretariat.

CONTINUING EDUCATION CREDITS

The event, sponsored by the CNI*, grants the possibility of obtaining a maximum of 3 CFP (Continuing Professional Development Credits) per day.

The event has been organized according to Article 4.5.5 of the CNI Guidelines for Continuing Professional Development, allowing the accumulation of valid CFPs up to a maximum of 9 CFPs annually.

*Confirmation pending from the CNI