

# SPECIAL ISSUE ON INNOVATION IN TBM TUNNELLING



**Società  
Italiana  
Gallerie**  
Italian Tunnelling Society

***gallerie***  
E GRANDI OPERE SOTTERRANEE

## Aim

This Special Issue of Gallerie and Grandi Opere Sotterranee (Tunnels and Large Underground Works) invites contributions discussing innovative solutions in TBM tunnelling design and applications.

The aim is to share and discuss the most recent scientific and technological developments in the field, with a focus on (but not necessarily limited to):



- multi-mode and hybrid TBMs
- continuous boring machines
- tunnelling under high cover in squeezing and collapsing ground
- water control systems
- ground investigations and pre-treatments
- monitoring
- tunnelling automatization and artificial intelligence
- TBM maintenance
- environmental and energy issues
- long-term tunnel serviceability
- safety and health of personnel

## Submission Guideline

Abstracts (max. 400 words) shall be submitted by e-mail to any one of the Editors. On abstract acceptance, full papers (original manuscripts only) can be submitted, according to the 'Guide for Authors' published on the Journal website: <http://www.societaitalianagallerie.it/menu/journal-gallerie/guide/> Please mention the name of the Special Issue in your cover letter. All manuscripts will be peer-reviewed in accordance with the established policies and procedures of the journal. The final papers will be selected for publication depending on the results of the peer review process and the reviews of the Guest Editors and Editor-in-Chief.

## Editor in Chief

Eng. Andrea Pigorini, Italferr SpA, Email: [a.pigorini@italferr.it](mailto:a.pigorini@italferr.it)

## Guest Editors

Prof. Eng. Daniela Boldini, Sapienza University of Rome, Email: [daniela.boldini@uniroma1.it](mailto:daniela.boldini@uniroma1.it)

Prof. Eng. Carlo Callari, University of Molise, Email: [carlo.callari@unimol.it](mailto:carlo.callari@unimol.it)

Eng. Remo Grandori, Seli Overseas SrL, Email: [r.grandori@consulenti.webuildgroup.com](mailto:r.grandori@consulenti.webuildgroup.com)

Prof. Eng. Salvatore Miliziano, Sapienza University of Rome, Email: [salvatore.miliziano@uniroma1.it](mailto:salvatore.miliziano@uniroma1.it)

Prof. Eng. Daniele Peila, Polytechnic University of Turin, Email: [daniele.peila@polito.it](mailto:daniele.peila@polito.it)

## Key dates

Abstract submission (max. 400 words) - March 15, 2022.

Full paper submission - June 15, 2022

Notification of final decision - September 15, 2022

Expected date of publication of Special Issue - December 2022

