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ITA - AITES World Tunnel Congress 2023

EXPANDING

UNDERGROUND

KNOWLEDGE & PASSION TO MAKE
A POSITIVE IMPACT ON THE WORLD



Megaron Athens International
Conference Centre (MAICC)



12 – 18 May 2023
Athens - Greece

WTC2023 | Call for Abstracts



**ABSTRACTS' SUBMISSION
IS NOW OPEN**

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Abstracts' submission
deadline
31 May 2022

The Topics

1. Knowledge & Passion to Expand Underground for Sustainability and Resilience

underground solutions; environmental protection; smart tunnels; cost-benefit analysis; future challenges in underground construction

2. Geological, Geotechnical Site Investigation and Ground Characterization

geological; geotechnical analysis; ground conditions; face mapping; uncertainty management; 3D geo modelling; geophysical applications; GIS systems; GBR

3. Planning and Designing of Tunnels and Underground Structures

planning; modelling; numerical analysis; seismic design; temporary and final support; waterproofing; construction cost; value engineering

4. Mechanised Tunnelling (and microtunnelling)

tbm tunnelling, roadheader and/or other mechanised tunnelling; segmental lining design and manufacturing; machine design for soft ground or rock tunnelling; performance; microtunnelling

5. Conventional tunnelling, Drill-and-blast applications

conventional tunnelling; excavation by drill-and-blast; shaft design and construction; explosive's design; vibration control; grouting/pre-injections

6. Tunnelling in challenging conditions, Case histories and lessons learned

urban tunnelling; archaeological issues; long tunnels in great depth; challenging underground projects; international case studies; failures/successes and lessons learned; immersed / underwater / floating tunnels; construction cost

7. Innovation, Robotics and Automation

innovative solutions; autonomous systems; robotics in construction; advanced instrumentation; communication and positioning; lidar applications; real time monitoring – scanning; automation in e/m systems;

8. BIM, Big Data and Machine Learning Applications in Tunnelling

building information modelling in tunnels; applications and case studies; big data management and utilization; ML applications in design and construction

9. Safety, Risk and Operation of Underground Infrastructure

operational safety and maintenance enhancement through AI; operation optimization through interactive tunnel systems and vehicles; health and safety in construction; safety and security of underground facilities; fire and emergency events; evacuation; risk assessment; maintenance and operation

10. Contractual Practices, Insurance and Project Management

contracts; insurance of tunnels/contractors; life cycle asset management; project management of complex projects; cost management; valuation



Have you heard?



In case you missed it...

- ▷ **WTC2023 Bulletin #1** is released | [click here](#) to download
 - ▷ **Sponsorship & Exhibition Brochure** is available | [click here](#) for more.
- 📌 ITA Prime Sponsors Priority until March 10, 2022



Program at a Glance

The Congress will be held in Athens from 12 to 18 of May 2023, Friday to Thursday, while numerous ITA activities will also take place such as ITA's General Assemblies, Working Groups – Committees - Young Members Groups meetings etc. A special session will be organized for Women in Tunnelling. A draft program overview is presented [here](#).

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The Greek
Tunnelling
Society (GTS)

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