

# Call for Abstracts

## 5<sup>th</sup> International Conference on Transportation Geotechnics

### Ground Improvement and Evolving Technologies for Sustainable Transport Infrastructure

**ISSMGE: TC202 Transportation Geotechnics** (in collaboration with TC211-Ground Improvement and TC307-Sustainability in geotechnical engineering)



20-22 November 2024

Sydney Masonic Centre, Australia

ICTG 2024



### IMPORTANT DATES

**Abstract Due: 30 June 2023**

Full paper submission: **28 February 2024**

Final paper submission: **30 May 2024**

### Conference Chair:

Distinguished Prof Buddhima Indraratna  
([buddhima.indraratna@uts.edu.au](mailto:buddhima.indraratna@uts.edu.au))

### Abstract submission site:

<https://ictg2024-c10000.eorganiser.com.au/>



### Conference website:

[www.ictg2024.com.au](http://www.ictg2024.com.au)

For all General Enquiries regarding the Conference, please contact our Conference Manager [ictg2024@arinex.com.au](mailto:ictg2024@arinex.com.au)

For specific *Technical Program Enquiries*, you may contact [ictg2024@uts.edu.au](mailto:ictg2024@uts.edu.au) (c/o Prof Cholachat Rujikiatkamjorn, Chair, Technical Program Committee or Conference Chair, Prof Buddhima Indraratna)

### OVERVIEW

It is our great pleasure to invite you to the 5th international conference on transportation Geotechnics (ICTG2024).

This conference will focus on the current challenges associated with transport infrastructure development and will act as a platform to disseminate the most recent research and field advances to the engineering community. Presentations from leading experts, professionals, and industry specialists will display technical advances and experience related to transport infrastructure. Keynote and Invited lectures from world-renowned experts in transport infrastructure will add value to the technical skills of all participants. The conference will act as a platform for delegates to share the issues, knowledge transfer, and to learn the impact of emerging and sustainable technologies. The conference will include the ISSMGE's 5th Proctor Lecture, 2-3 Bright Spark Lectures, keynote speakers and State of the Art, State of Practice and Heritage Lectures.

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- Mechanistic-empirical design (road, railways, airfields, waterways and harbor facilities)
- Optimized characteristics of geomaterials (e.g., hydraulically bound materials & asphalt mixtures)
- Recycled materials in road and rail embankments and sub-structural layers
- Sustainability in transportation geotechnics
- Fundamentals of road and rail geotechnics
- Offshore soil improvement, port development and harbour geotechnics
- Dynamics of Transportation Infrastructure and Numerical Modelling
- Soft Subgrade Instability including yielding and fluidisation (experimental and numerical)
- Behaviour of Airfields and Pavement structures
- Transition Zones for railways
- Applied Ground Improvement methods for Transportation Infrastructure
- Stabilisation and reinforcement of geomaterials and waste materials
- Geosynthetics in transportation applications
- Geotechnics in underground transportation including tunnels
- Use of Rigid Inclusions and Retaining Structures for Enhanced Stability
- Pile-supported transport infrastructure
- Geotechnical-seismic vulnerability of transportation infrastructures
- Subsurface sensing for transportation infrastructure
- Intelligent construction in earthworks technology and management
- Climatic effects on the behavioral transformation of geomaterials
- Properties and behavior of Unsaturated subgrade and compacted fills
- Slope stability and risk management in relation to transport corridors
- Transport asset management
- Planning and design of mega transport projects,
- AND MORE



**ABSTRACT FORMAT** (Template and instructions can be downloaded from <https://ictg2024-c10000.eorganiser.com.au/>)

**TITLE OF PAPER HERE**

**[First Name] [Last Name]** & **[First Name] [Last Name]** (Indicate the presenter in bold font, Arial, 10pt)  
*[Department], [Affiliation], [Country], [Presenter's email address] (Same affiliation)*  
**[First Name] [Last Name]**  
*[Department], [Affiliation], [Country]*

**ABSTRACT**

*The abstract should summarise the scope of the paper and outline the impact of the work. Your abstract should not be longer than 250 words.*

*Papers should be typed in Arial 10pt using MS Word (.docx) in A4 format and should not exceed six (6) pages. Note that no copyright transfer is required for the Conference papers, but only the permission to publish.*

**Please submit via:** <https://ictg2024-c10000.eorganiser.com.au/>

