

Under the auspices of JTC2, FedIGS

Organised by



Geotechnical Society  
of Singapore

Supported by

ISSMGE TC309 on Machine Learning and Big Data  
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ISSMGE TC210 on Embankment Dams

# 4ICITG cum 5IWMTG

## 4th International Conference on Information Technology in Geo-Engineering

## 5th International Workshop on Modern Trends in Geomechanics

24-26 Nov 2021 Furama Riverfront, Singapore

### Conference themes for 4ICITG

The 4th ICITG aims to address the latest developments in applications of information technologies and artificial intelligence to geo-engineering. Topics of the conference cover any topics related to the applications of information technologies in geotechnical engineering, geo-environmental engineering, or engineering geology. These include, but not limited to, the following topics:

- Sensors and sensing technologies for geotechnical or geological applications
- New geotechnical instrumentations, data collection and transmission technologies
- 3D geological modeling
- Application of Artificial intelligence (AI) or machine learning in geotechnical engineering
- Use of Information and Communications Technologies (ICT) in laboratory and field works
- Digitalisation for site investigation, in-situ or laboratory testing
- Data driven geophysical investigation and interpretation methods
- Big data and database processing for better use of geotechnical data for geotechnical design
- Applications of imaging technologies for geotechnical design or geological data presentations
- Building Information Modeling (BIM) applied to geo-structures and underground constructions
- Virtual reality and augmented reality
- Intelligent geomaterials, geosynthetics and geosystems
- Case studies in design, constructions and maintenance

There will also be mini-symposiums or workshops related to the above topics. Proposals of special sessions or workshops may be sent to the conference chairs. 4ICITG and 5IWMTG will share opening, closing, some keynote sessions and all the other activities planned for the conferences.

For the conference, only extended abstract needs to be submitted for the consideration for oral presentation. Selected papers will be invited for submissions to special issues in Acta Geotechnica and Georisk.

### Important Dates

	Deadline
Special Session Proposal	31 Aug 2020
Abstract for Conference / Special Journal Issues	15 Oct 2020
Confirmation of Acceptance of Abstract	15 Dec 2020
Submission of Full Paper / Extended Abstract	30 Mar 2021

### Organizing Committee

All members are based  
in Singapore

#### Chairs

##### **CHU Jian**

Nanyang Technological University

##### **LEUNG Chun Fai**

National University of Singapore

#### Secretaries

##### **CHIAN Siau Chen, Darren**

National University of Singapore

##### **WU Shifan**

Nanyang Technological University

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(In alphabetical order of surnames)

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### About ICITG

The International Conference on Information Technology in Geo-Engineering (ICITG) was initiated by the Joint Technical Committee 2 (JTC2) of the Federation of International Geo-Engineering Societies (FedIGS). FedIGS is an umbrella organization linking international professional societies in the field of "Geo-Engineering", including ISSMGE International Society for Soil Mechanics and Geotechnical Engineering, ISRM International Society for Rock Mechanics and Rock Engineering, IAEG International Association for Engineering Geology and the Environment, IGS International Geosynthetics Society. JTC2 is one committee under FedIGS and focuses on intelligentizing geo-engineering data.

The conference intends to bring together engineers, scientists, researchers and educators to review new developments and IT advances in geo-engineering and provide a forum for the discussion of future trends. The first three ICITG conferences were organized by Tongji University, Shanghai, China in 2010, Durham University, Durham, UK together with Tongji University, Shanghai, China in 2014, and the University of Minho and the Portuguese Geotechnical Society in Portugal in 2019, respectively. The 4th ICITG will be organized by the Geotechnical Society of Singapore, with the support of Nanyang Technological University and National University of Singapore in 2021.

### About IWMTG

The International Workshop on Modern Trends in Geomechanics (IWMTG) has been successfully held in Vienna (2005), Stanford (2010), Nottingham (2012) and Assisi, Italy (2016). The format of IWMTG will follow the established workshop tradition in which presentations are given by invited leading experts in the field of geomechanics only.



### International Advisory Committee for 4ICITG

#### Chairs

**ZHU Hehua**

*Tongji University, China*

**PHOON Kok-Kwang**

*National University of Singapore, Singapore*

#### Members

*(In alphabetical order of surnames)*

**Sam ALLEN**

*TRI Geosynthetic Services, USA (JTC2)*

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*The Hong Kong University of Science and Technology, Hong Kong, China (ISSMGE)*

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*Nanyang Technological University, Singapore (Special issue editor)*

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*The Hong Kong University of Science and Technology, Hong Kong, China (Chair TC210)*

**ZHANG Wengang**

*Chongqing University, P.R. China (Special issue editor)*

### International Organizers for IWMTG

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**WU Wei**

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**YU Hai-Sui**

*University of Leeds, UK*

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