

Second Announcement

International Workshop on Digital Twin and AI Empowered Emergency Risk Management

6–8 August 2026 | Hong Kong University of Science and Technology (HKUST), Hong Kong, China

About the Workshop

In the context of climate change, extreme natural hazards—such as landslides, debris flows, and floods—are occurring with increasing frequency and intensity. Rapid urban expansion and socioeconomic development have significantly increased exposure to these hazards. To effectively reduce disaster risks, there is an urgent need for more efficient and integrated disaster management tools. Recent advances in Digital Twin (DT), Artificial Intelligence (AI), and Remote Sensing have opened new opportunities for improving natural hazard risk management.

The **International Workshop on Digital Twin and AI Empowered Emergency Risk Management** will bring together leading researchers, practitioners, and policymakers to explore how these advanced technologies can enhance resilience and decision-making, and to advance the technologies themselves.

CPD certificates will be issued to attendees per request.

Scope & Topics

The workshop welcomes contributions related to, but not limited to:

- Digital twin modeling
- Geospatial big data analytics for disaster risk reduction
- AI-driven risk analysis, forecasting, and early warning
- Remote sensing and IoT for real-time monitoring
- Urban resilience and infrastructure risk management
- Societal response monitoring and analysis
- Emergency management technologies

Organized by:



Supported by:



International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)
TC210 on Embankment Dams
TC309 on Machine Learning



GEOTECHNICAL DIVISION
岩土分部



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Magnus Romoen	Norwegian Geotechnical Institute
Hok Ning Wong	The University of Hong Kong

Tentative Keynote Speakers:

Jack Cheng	The Hong Kong University of Science and Technology
Liang Gao	University of Macau
Bo Huang	The University of Hong Kong
Yan Huang	China Three Gorges University
Suzanne Lacasse	Norwegian Geotechnical Institute
Jinhui Li	Harbin Institute of Technology (Shenzhen)
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Te Xiao	Shanghai Jiao Tong University
Ryan Yan	AECOM
Fang Yang	Pearl River Water Resources Research Institute
Zongliang Zhang	Power Construction Corporation of China
Hehua Zhu	Tongji University

Important Dates

Online registration deadline	31 July 2026
On-site registration	6 August 2026
Workshop dates	7–8 August 2026

Tentative Workshop Program

7 August 2026 AM	Keynote and invited lectures
7 August 2026 PM	Keynote and invited lectures
8 August 2026 AM	Keynote and invited lectures, parallel sessions

Registration Fees

Regular delegates	HKD 1500
Invited speakers or Students	Free

Registration Link: <https://v.wjx.cn/vm/mQrsgY0.aspx#>

Payment Link: <https://event-reg.hkust.edu.hk/hkust-mcp/checkout/431/international-workshop-on-digital-twin-and-ai-empowered-emergency-risk-management>



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