

CONFERENCE PROGRAM

MAY 10, SUNDAY

14:00-20:00 **Registration** (Lecture Theatre A)

MAY 11, MONDAY

Opening Ceremony (Lecture Theatre A)

Chair: Yu Wang (The Hong Kong University of Science and Technology)

Welcome Speech

08:45-08:55 **Charles W. W. Ng** (*Vice-President, The Hong Kong University of Science and Technology (HKUST); Past President of International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)*)

08:55-09:00 **Group Photo**

Keynote Lectures (Lecture Theatre A)

09:00-09:35 **Resilient Infrastructure**

Thomas O'Rourke (Cornell University)

09:35-10:10 **Redefining "Sites" Using Tailored Lego Clustering**

Kok-Kwang Phoon (Singapore University of Technology and Design)

10:10-10:45 **Building and Implementation of Tunnel Intelligent Agents in Extreme Environments**

Hehua Zhu (Tongji University)

10:45-11:05 **Coffee Break** (Lecture Theatre A)

11:05-12:20 **PARALLEL SESSIONS**

12:30-14:00 **Lunch & Break** (HKUST China Garden Restaurant)

Keynote Lectures (Lecture Theatre A)

14:00-14:35 **Data-driven and Resilience-based Geotechnical System in Hong Kong**

Raymond Cheung (Geotechnical Engineering Office, Hong Kong SAR Government)

14:35-15:10 **The HKUST Space Remote Sensing Program**

Limin Zhang (The Hong Kong University of Science and Technology)

The Innovative Development Path of China's Railways (中国铁路创新发展之路)

15:10-15:45 **Jian Zheng** (*China State Railway Group & Tongji University*)

(郑健, 中国国铁集团; 同济大学)

15:45-16:05 **Coffee Break** (Lecture Theatre A)

16:05-18:05 **PARALLEL SESSIONS**

18:30-20:30 **Conference Banquet** (HKUST China Garden Restaurant)

CONFERENCE PROGRAM

MAY 12, TUESDAY

Keynote Lectures (Lecture Theatre A)

08:45-09:20 **ISSMGE Intelligent Geotechnics Honour Lecture: Intelligent Safety Risk Assessment of Tunnel Engineering Throughout the Whole-Life-Cycle**
Hongwei Huang (Tongji University)

09:20-09:55 **Data-driven Geotechnical Site Characterization**
Jinsong Huang (The University of Newcastle)

09:55-10:30 **The Role of ML in Geotechnical Practice: Trustworthiness, Explainability, and Accountability**
Zhongqiang Liu (Norwegian Geotechnical Institute)

10:30-10:50 **Coffee Break** (Lecture Theatre A)

10:50-12:05 **PARALLEL SESSIONS**

12:15-13:30 **Lunch & Break** (HKUST China Garden Restaurant)

13:30-14:55 **PARALLEL SESSIONS**

14:55-15:10 **Coffee Break** (Lecture Theatre A)

Bright Spark Lectures (Lecture Theatre A)

15:10-15:30 **From Pixels to Physics: Machine Learning-enabled Spatial Intelligence for Geotechnical Engineering Digital Twins**
Tongming Qu (Wuhan University)

15:30-15:50 **Simultaneous Bayesian Learning of Multi-source Data**
Xin Liu (Wuhan University)

15:50-16:10 **Unlocking the Potential of Data-centric Geotechnics: A Cross-disciplinary Perspective**
Andreas-Nizar Granitzer (Norwegian Geotechnical Institute)

16:10-16:30 **Towards Intelligent Geomechanics: Bridging Physics, Data, and Uncertainty**
Kaiqi Li (Hong Kong Polytechnic University)

16:30-16:40 **Closing Ceremony** (Lecture Theatre A)

MAY 13, WEDNESDAY

9:00-13:00 **Field Trip to Hong Kong UNESCO Global Geopark**