

UNIVERSITY OF MACAU
FACULTY OF SCIENCE AND TECHNOLOGY
DEPARTMENT of
CIVIL AND ENVIRONMENTAL ENGINEERING

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**"‘Digital Hong Kong’ Multi-hazard Risk
Evaluation in Extreme Weather Conditions"**

by

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Time: 3:30PM – 04:30PM

Venue: E11 – 1009

Abstract

An extreme storm may trigger a large number of flood spots, landslides and debris flows in Hong Kong. The consequences can be catastrophic. To develop strategies to cope with geohazards induced by extreme rainstorms, a good understanding of the generation and propagation of hazards during a storm is essential. HKUST is in the process of developing a “Digital Hong Kong” multi-hazard simulation platform to evaluate possible hazardous processes in critical rainstorms in the entire Hong Kong. The simulation framework is introduced and its potential use in enhancing the resilience of Hong Kong is discussed in this seminar.

Biography

Prof. Limin Zhang is Chair Professor of Geotechnical Engineering, Director of Geotechnical Centrifuge Facility and Associate Director of Great Smart Cities Institute at the Hong Kong University of Science and Technology. His research areas include slopes, dams, geotechnical risk assessment and management, and centrifuge modeling. Prof. Zhang is Chair of ISSMGE TC210 on Embankment Dams and Chair of ASCE Risk Assessment and Management Committee. He is also Editor-in-Chief of International Journal Georisk, Associate Editor of ASCE’s Journal of Geotechnical and Geoenvironmental Engineering, and editorial board member of Engineering Geology, Computers and Geotechnics and several other journals.

ALL ARE WELCOME!