香港科技大學
THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

土木及環境工程學系
DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

SEMINAR

MITIGATION OF CASCADING FLOW-LIKE LANDSLIDES: REMARKS

Speaker

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Abstract

Catastrophic flow-like landslides such as debris flows, debris avalanches, and impact-loading-triggered landslides still pose severe challenges for mitigation. Based on insightful field evidence, recent numerical approaches now allow for estimating the overall cascading process, responsible for both the mobilised volume and velocity to increase tremendously. A system based on flexible net barriers can be a solution, but also artificially rooted soils can work within the scope. What is still missing for reliable design, durability assessment, and standard procedures to apply in practice? The seminar will provide recent enhancements, still posing open questions.

Biography

Sabatino Cuomo is Professor of Geotechnical Engineering at the University of Salerno, Italy, and the Director of the Geotechnical Engineering Laboratory. He is a Core Member of JTC1 “Natural Slope and Landslides” of FedGIS (Federation for International Geo-Engineering Societies, ISSMGE, ISRM, IAEG, IGS), and Member of the Board of Directors of ALERT Geomaterials (The Alliance of Laboratories in Europe for Education, Research and Technology). He is the Deputy Director General of the International Consortium on Geo-disaster Reduction (ICGdR), and Coordinator of LARAM School (International School on “LAndslide Risk Assessment and Mitigation) for PhD students, started in 2006, with a renewed International Scientific Committee. Prof. Cuomo serves as Associate Editor of the Canadian Geotechnical Journal, Editorial Board member of Computers and Geotechnics, Landslides, and Environmental Geotechnics. His research interests include Landslide Mechanisms, Solid-fluid transition, Landslide Dynamics, Regional slope stability, Slope erosion, Vegetation, Geosynthetics reinforcement, Laboratory testing of unsaturated soils, and Constitutive Modelling.

11 December 2026
Friday

10:30am - 11:30am

Room 3574 (Lift 27/28), Civil Engineering Conference Room Academic Building, HKUST

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