IEM
The Institution of Engineers, Malaysia

Organised by Geotechnical Engineering Technical Division (GETD)

WEBINAR ON

Nature-Based Solutions (NBS) and LiDAR Technology: Advanced Techniques for Slope Stability Analysis and Geohazard Assessment

Speaker:

Dr Carles RAÏMAT

BEM Approved CPD: 2
Ref. No.: IEM24/HQ/434/T(w)

23 OCT 2024, WED

3.00PM - 5.00PM

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Registration Fees
Student Members : Free
IEM Members : RM 15.00
IEM Non Members : RM 70.00
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SYNOPSIS

In the face of increasing environmental challenges, the integration of Nature-Based Solutions (NBS) and cutting-edge technologies has become essential for sustainable geotechnical engineering. This webinar will explore the synergy between NBS and LiDAR technology, focusing on their application in slope stability analysis and geohazard assessment.

Participants will gain insights into how NBS can be effectively employed to enhance natural resilience against landslides and other geological hazards. Additionally, the session will delve into the use of LiDAR technology not only to collect precise topographical data but also to utilize the collected data for comprehensive analyses of rock mass characteristics. The webinar will cover methodologies for assessing rock mass quantity and kinematics, which are critical for conducting accurate slope stability analyses and evaluating potential geohazards.

By combining these approaches, engineers and geoscientists can develop innovative, environmentally sustainable solutions to mitigate geohazards while preserving natural ecosystems. This webinar is designed for professionals in geotechnical engineering, environmental science, and related fields who are keen to explore the latest advancements in sustainable slope management and risk mitigation.

SPEAKER'S PROFILE

Dr Carles Raïmat is a Senior PhD Geotechnical Civil Engineer with 27 years of experience in leading geohazard teams involved in Geotech, monitoring, and hazard-based projects globally, from calculations to execution and completion. He held a PhD in Geotechnical Civil Engineering from Universitat Politècnica de Catalunya, along with multiple master's degrees in health and safety, terrain engineering, and geology.

Dr Charles has founded multiple engineering firms and serves as an advisor for various organizations, including the World Bank Groupe in Africa. He has extensive experience in using UAVs for site inspections, 3D modelling, and developing construction methodologies. He has been involved in more than 50 projects every year throughout his working experience for projects in different continents. His recent projects include advising on landslide hazards in East Africa for the World Bank Group, Slope Stability of open pit mining in Canada, and a couple of GeoHazard mapping and management works in Spain and Morocco. He is also the Monitoring Underground Manager for a road tunnel project and an Arc Bridge project in the Canary Islands.