



High-Performance Multi-Hazard Modelling for Disaster Risk Reduction



Presented by Qihua Liang, Huili Chen, Jinghua Jiang, Haoyang Qin



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Date & Time: 28th February 2025; 12:00-13:00 GMT (UK)

Format: Online Talk

Description: The UNESCO Chair in Informatics and Multi-hazard Risk Reduction (IMRR) aims to co-develop, disseminate and support implementation of informatics technology solutions (e.g., high-performance computing, AI, big data analytics, digital twins) for multi-hazard risk assessment and management, thus enhancing global capacity for disaster risk reduction and sustainable development.

The talk will introduce some of the recent research developments and activities of the IMRR Chair, and discuss potential opportunities for collaborations:

- 1) Introduction of IMRR and multi-hazard modelling, Prof Qihua Liang
- 2) Glacier lake outburst flood impact assessment in Nepal, Dr Huili Chen
- 3) NbS for flood risk reduction, Dr Jinghua Jiang
- 4) CHANS modelling for flood risk management, Dr Haoyang Qin.



This Talk is part of the Resilience Catalysts Cycle of Talks bringing together UNESCO Chairs working on DRR and resilience to share knowledge and expertise. Information concerning this Cycle of Talks can be found here: <https://resilience.uniud.it/resilience-catalysts>

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