

May 14th, 2024

- University of Bologna, Italy.
- University of Sejong, Korea.

Room 1E: Department of Geosciences, Via Gradenigo 6, Padova.

Programme

9:00 – 9:30	Welcome Address
	Filippo Catani – Workshop intro with a brief on the main research topics at the Machine Intelligence and Slope Stability Lab
9:30 – 11:00	Session 1: Machine Intelligence for landslide susceptibility
	 Sansar Raj Meena - Deep Learning of optical data for Automated Landslide Mapping and Susceptibility Assessment. Jongchan Oh - Landslide susceptibility analysis using CNN and clustering based sampling. Q&A
11:00 – 11:30	Short Break
11:30 - 13:00	Session 2: Landslides in a changing climate
	 Hyuck-Jin Park - Assessment of temporal probability for rainfall induced landslides considering climate change impacts. Nicola Dal Seno - Comparative analysis of conventional and machine learning techniques for rainfall threshold evaluation under complex geological conditions. Ascanio Rosi - Spatiotemporal landslide forecasting using learning models. Q&A
13:00 – 14:30	Lunch Break
14:30 - 16:00	Session 3: SAR for landslide investigation
	 Alessandro Simoni - Detection of active landslides through InSAR, strengths and limitations. Lorenzo Nava - Deep Learning for All-Weather Landslide Rapid Assessment and Prediction. Yoon Taek Jung - Sub-canopy topography estimation using polarimetric SAR interferometry. Q&A
16:00 – 16:30	Short Break
16:30 – 17:00	 Alessandro Zuccarini - Estimating the hydrograph of a debris flow event through low-cost field camera monitoring and Digital Particle Image Velocimetry Q&A
17:00 – 17:15	Concluding Remarks
	Filippo Catani - Professor, University of Padova.