

Special Session on

# PHYSICAL AND NUMERICAL MODELLING OF LANDSLIDE-STRUCTURE-INTERACTION (LSI)



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Many geo-disasters in the world are related to landslides. They endanger the resident populations, and cause severe economic and functional losses, especially in urbanized areas, due to direct damage to the existing structures and indirect costs related to the disruption of strategic corridors.

Landslide-Structure-Interaction (LSI) is a topical issue and the new challenges consist in how to reconcile prevention and remediation actions with Sustainability Development Goals of UN Agenda 2030. In such a framework, the recourse to innovative materials, new technical solutions and low-carbon options require a clear understanding of the interaction mechanisms.

In this session, different types of landslides are very welcome: from slow-moving deep-seated landslides, to shallow flowslides and rock-falls. The consequent impact on pipelines, railways corridors or roads, houses (single or in a cluster) are also of interest. Especially a focus on deformation mechanisms along the slope, in the landslide body and for the structure will be appreciated. Very welcome are also comparison of models towards field measurements and monitoring.

This session aims at bringing together laboratory and numerical experts to discuss the state of the art, sharing present and future perspectives.

Contributions to the Special Session should be submitted online at <https://iconhic.com/2021/authors-area/#submissions>, selecting the name of the Special Session in the dropdown menu 'Abstract Topic'.