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>> SYNTHESIZE MOUNTAINS OF KNOWLEDGE <<

Submitted Abstract

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Abstract

Mass wasting is a threat to residential areas and infrastructure, causing widespread destabilsation in alpine stream channels, while being in relation with ongoing climatic changes. Although hillslope sediment supply represents a critical factor for stream channel stability during heavy rainfalls, there is a substantial lack of procedures for quantifying sediment availability and composition. Moreover, there is a general absence of validated empirical models for estimating hillslope sediment flux to the drainage network as a function of meteorological forcing. SedInOut, through a joint interregional effort, aims to develop methodologies for the quantification and characterization of hillslope sediment, while targeting for a sustainable land management that values geo-risk mitigation and sediment recycling.