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Land Cover Dynamics and Geomorphic Processes in Hillslope Environments: From Data Acquisition to Modelling and Management Practices

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Message from the Guest Editors

Land cover is a key factor in geomorphic processes in steep land environments. It exhibits both beneficial and adverse effects on hillslope denudation and substantially influences landscape evolution. Land cover information becomes of fundamental importance in many applications for assessing soil erosion and landslide activity at difference scales, from local to global. Apparent changes in land cover affect the accuracy of most investigations that aim to detect, observe, analyse, model, or predict geomorphic and landform-shaping processes. Such processes can alter soil properties, such as soil reinforcement and soil aggregation, causing landscape denudation, which has a strong impact on both natural ecosystems and cultivated land and leads to increasing environmental diversity and/or economic damage. This topic is of great interest, despite uncertainty and complexity, and requires accurate modeling and prediction, in particular, in the context of changing climate conditions. [...] For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/water/special_issues/Hillslop



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