From Earthquakes to Landslides: Predictive Modelling and Applications



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Calculate acceleration: 1. Critical acceleration 2. Sliding acceleration

Identify unstable regions, where: Sliding acceleration > Critical acceleration

Divide region into aspect-dependant groups

failure



 Slope - Calculate base probability

Ground motion

- Add stochastic component

- Extract region specific data

Group-level probabilities:

Region selection:

1. Perform weighted random selection using normalised probabilities 2. Produce map of regions predicted to fail



failed nodes



