AUXILIARY MATERIAL FOR THE PAPER:

Exploring model sensitivity issues across different scales in landslide susceptibility

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Rank-MUR-LCV# plots illustrating the variation of parameter relative importance (expressed as rank using the color ramp on the right – RED color = maximum importance – GRAY color = minimum importance) with parameter space (n. of parameters used LCV#) and map unit resolution (MUR in m). Grey colors correspond to combinations of MUR and LCV# in which the parameter importance was estimated as poor or where the parameter was discarded. The white boxes indicate the combination of MUR-LCV# leading to the best classification for each resolution (Table 2 in the main text).
Land cover

Land cover variety

Distance to rivers

Random test parameter

Rainfall r-p 30mm 1h
Rainfall r-p 50mm 6h

Rainfall r-p 100mm 24h

Rainfall r-p 100mm 72h

Rainfall r-p 240mm 24h

Rainfall r-p 300mm 72h
Rainfall r-p 600mm 120h

Slope angle

Slope std dev

Topographic Wetness Index

Topographic Wetness Index Std Dev
Distance to roads
Mental map depicting the main lines of LSM model sensitivity for Random Forest methods. Green light: topics discussed in the paper; Yellow light: topics partially discussed; Red light: topics not included in the experimentation.