A data-driven complex systems approach to early prediction of landslides

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PII: S0093-6413(18)30078-8
DOI: https://doi.org/10.1016/j.mechrescom.2018.08.008
Reference: MRC 3300

To appear in: *Mechanics Research Communications*

Received date: 9 February 2018
Revised date: 12 July 2018
Accepted date: 8 August 2018

Please cite this article as: Antoinette Tordesillas, Zongzheng Zhou, Robin Batterham, A data-driven complex systems approach to early prediction of landslides, *Mechanics Research Communications* (2018), doi: https://doi.org/10.1016/j.mechrescom.2018.08.008

Highlights

- Complex systems and knowledge of micromechanics of localised failure characterise spatial variability and correlations in surface movements on a rock slope
- Precursory patterns of evolution quantified using kinematic complex networks
- During and after the landslide, network nodes form two clusters connected by bridge nodes.
- Bridge nodes predict the landslide locale two weeks in advance.