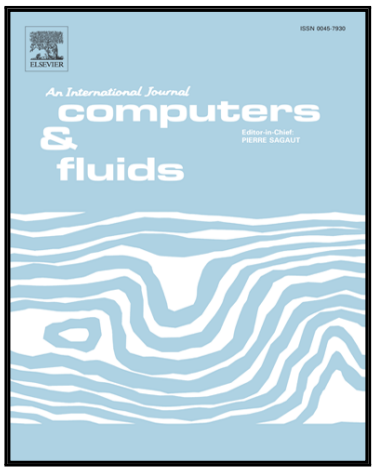

Meshfree particle numerical modelling of sub–aerial and submerged landslides

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Highlights

- A multiphase particle continuum model was developed for sub-aerial and submerge landslides.
- The model is based on WC-MPS methods with pressure depended μ(I) rheology.
- Comparison of numerical results with those of experiments showed good agreements
- The role of rheological model is investigated.
- Results provide a better understanding of the mechanisms involved in landslides.