Abstract Details

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Title: Numerical modeling of debris flows in complicated geometry

Abstract:

We use the generalized Julien and Lan (1991) rheological model to c a numerical program fro simulating debris flows. The scheme is teste against analytical solutions and laboratory experiments with very goc results. Application to the fields also achieved good agreement comp with in-situ measurements. Debris flow around structure can also be modeled with reasonable result. The program can calculate the flow h flow velocity, impact force on structure and the final deposition area. result can be a reference to designer of counter measurements.

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Keywords: Debris flows, Numerical modeling, Impact force, Flow around structu

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