RECENT ADVANCES in Numerical Simulation of Landslides and Debris Flows

TRACK Number: 5000

PAVEL A. TRAPPER

Ben-Gurion University of the Negev

P.O.Box 653, Beer-Sheva 84105, Israel

E-mail: trapper@bgu.ac.il

**Key words:** Landslides, Debris Flows, Computational Fluid and Solid Mechanics, Soil-Structure Interaction.

ABSTRACT

Subaqueous landslides are caused by underwater slope instabilities in natural water reservoirs and they are the underlying threat to both the offshore infrastructure. The already existing, and the future planned oil and gas transportation infrastructure along the continental slopes, requires a better understanding and modelling of the processes that result in subsea landslides in order to improve our ability to predict, assess, and mitigate their potential hazards.

The aim of this minisymposium is to bring together scientists working on computational modelling and numerical simulation of submarine landslides and debris flows to share and exchange ideas, discuss the state of the art, recent advances and challenges. The analysis of the interaction between landslides and offshore structures is particularly encouraged. The minisymposium will be open to a broad spectrum of modelling techniques and numerical approaches.