

Minisymposium Title

CFD Applications on Hydrodynamic Hazards (CFD 於水動力災害之應用)

Description

The main objective of this session is the development of novel, efficient and accurate numerical techniques for solving hydrodynamic problems, and the applications to hazard related disciplines. Hydrodynamic-related nature hazards are the major disasters threaten the human lives. Using numerical method to predict the tsunami, storm surge, and sever flood, landslide, and the local scour is one important mean to reduce the hazard. The hazard can be reduced by design the infrastructures carefully. The precise force prediction is the key to success. All these require advanced CFD technique.

Topics of interest include, but are not limited to:

- Seismic Tsunami
- Landslide Tsunami
- Storm Surge
- Breaking Waves
- Fluid-Structure Interaction
- Moving-Solid Algorithm
- Local Scour
- Wind Turbine
- Sediment Transport
- Landslide
- Mudslide

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