Special Issue

Numerical Simulations on Tsunamis

Message from the Guest Editors

Numerical simulations are essential for predicting the effects of tsunamis to take countermeasures. Many numerical models have been developed and applied to investigate various aspects of tsunamis, such as the following: - Wave deformation and amplification during propagation over topographies; - Tsunami source estimation; - Runup on land and in rivers; - Generation triggered by various causes—a submarine earthquake, landslide, glacier collapse, submarine eruption, air pressure wave due to a volcanic eruption or weather change, etc.; - Erosion and deposition in ports and coastal areas; - Fluid–structure interaction; - Drifting of debris, ships, containers, wood, cars, etc.; - Evacuation simulation. We welcome articles on a variety of research stages, including basic research on tsunamis as water waves, calculations of historical tsunamis, and attempts to develop numerical models considering solid, liquid, and gas phases. Reviews are also welcome. We hope to collect various numerical methods, models, and calculation examples for theories, experiments, and field surveys, to use and develop them in future tsunami research.

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Message from the Editor-in-Chief

Journal of Marine Science and Engineering (*JMSE*, ISSN: 2077-1312) focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

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