



Advance Numerical Simulation for Earthquake Hazards and Disasters

Guest Editor:

Prof. Dr. Munee Hori

Research Institute for Value-Added Information, Japan Agency for Marine–Earth Science and Technology, Natsushimacho, Yokosuka, Kanagawa 237-0061, Japan

horimune@jamstec.go.jp

Deadline for manuscript submissions:

31 December 2021

Message from the Guest Editor

Recent progress of computer and computational sciences enable us to realize innovative numerical analysis in many fields of science and engineering. This SI aims at providing a state-of-art report of advanced numerical simulation in earthquake engineering and related areas. For instance, we are interested in the development of a new analysis method for geo-hazards induced by earthquake, sophisticated algorithms of solving problems for earthquake disaster evaluation, an integrated system that connects sequential events in earthquake hazards, disasters and post-disaster responses, and the use of high performance computing that is provided by massive parallel computers or general purpose GPU's. The SI is not limited to these issues, and other topics of the advanced numerical simulation are welcome. We also call for researches of applying advanced numerical simulation to practical problems, the verification and validation of developed programs and numerical analysis models, and researches of uncertainty quantification that is essential in numerical simulation of earthquake hazards.

Link:

https://www.mdpi.com/journal/geohazards/special_issues/simulation_earthquake

