

Special Issue

Advanced Numerical Simulation for Earthquake Hazards and Disasters

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

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