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Advanced Numerical Simulation for Earthquake Hazards and Disasters

Guest Editor:

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Message from the Guest Editor

Recent prooress 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 intereseted in the development of a new analysis method for geo-hazards induced by earthquake, sophisticasted algorihms of solving problems for earthquake disaster evalution, an integrated sytestem that connects sequential events in earthquake hazards, disaters and post-disater resposen, 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 verfication and validation of developed programs and numerical analysis models, and reasraches of uncertaniity quantification that is essential in numerical simulation of earthquake hazards.

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