



Earthquake Ground Motion Observation and Modelling

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Deadline for manuscript
submissions:

closed (31 July 2023)

Message from the Guest Editors

Dear Colleagues,

Realistic and robust ground motion modeling for future events is one of the most challenging problems in seismology and earthquake engineering. This topic includes the study of source effects (e.g., rupture directivity, complex source dynamics), fault characterization (slip-rate, fault length, fault throw, etc.), surface deformation studies (InSAR, PSInSAR, DInSAR), propagation ground motion phenomena (including attenuation, seismic energy channeling, scattering effects, seismic elastic and viscoelastic modeling, and inversion) due to complexity in Earth structure, and local site effects (site basin effects and 3D geological modeling, liquefaction, soil classifications, topographic effects, nonlinearity). We also solicit contributions on ground motion networks. The quantitative and reliable assessment of those phenomena requires monitoring from high-quality to low-cost dense seismic networks, as well as small to medium aperture seismic arrays and *big data management and analysis*.

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Guest Editors





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