Special Issue

Engineering Analysis of Near-Source Strong Ground Motion

Message from the Guest Editors

In the last twenty years we have seen significant advances in the acquisition and dissemination of strong motion waveforms, which are of paramount importance in defining earthquake ground shaking scenarios and seismic input for earthquake engineering applications. The growing availability of observed and simulated ground-motions opens new perspectives in Engineering Seismology, with important implications for seismic risk analyses and definition of seismic actions for design.

This Special Issue of Geosciences welcomes original research contributions, reviews, case studies or technical
notes on the following topics:

- Lessons learnt from recent strong earthquake;
- Numerical simulations of earthquake ground motion in the near-source region;
- Advanced approaches for strong motion waveform processing;
- Engineering characterization of near-fault ground motion from recordings and simulations;
- Attenuation models for near-source earthquake ground motion;
- Seismic analysis of engineered systems subject to near-fault motions;
- Spatial coherence of ground motion waveforms from dense arrays;
- Spatial correlation of ground motion intensity measures.

Guest Editors

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Deadline for manuscript submissions

closed (20 December 2021)

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Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherentset of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientificallybased political decisions.
We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

Editor-in-Chief

Prof. Dr. John C. Eichelberger
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