



Advances in Seismic Interferometry

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Message from the Guest Editors

Seismic interferometry takes advantage of existing (ambient) wavefield recordings through the generation of so-called virtual sources. The medium's response to these virtual sources can be harnessed to image and/or monitor that medium. A myriad of applications has emerged that, in one way or another, benefit from this technique. Examples vary from glacial monitoring using ambient seismic noise to the monitoring of deep-ocean temperatures using acoustic noise. Industrial applications include monitoring geothermal reservoirs using multiply scattered surface waves, Marchenko redatuming in the context of seismic exploration, and CO₂ storage monitoring using ambient body-wave energy.

We invite studies on all types of (system-Earth related) interferometric applications, as well as papers highlighting recent methodological advances in the field of seismic interferometry. Studies of interest may therefore involve large-N arrays, distributed acoustic sensing, machine learning, full-waveform inversion, surface-wave extraction, noise characterization, hydroacoustic monitoring, and other recent advancements in the field of seismic interferometry.

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Message from the Editor-in-Chief

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