Special Issue

Seismic Noise: Making Sense from the Unknown

Message from the Guest Editor

Specific techniques, such as seismic noise correlation technique, H/V spectral ratio, ellipticity analysis, and frequency-wavenumber, proved to be very powerful in turning ambient seismic noise into useful signals (high-resolution shallow structure, site effects, attenuation). They became more and more attractive as seismic networks became denser. In addition, the seismic noise is a low-cost and easy-to-measure signal which is available everywhere and at every time, independent from earthquake activity or active seismic sources. This is of highest interest in areas where the natural seismicity is low or in sensitive areas, such as cities, where it is difficult to use active seismic measurements (explosions, large vibrators).

The focus of this Special Issue is to emphasize novel results on the use of multiple computational methods and techniques to provide high-resolution information and to model and interpret seismic noise wave field. Contributions related to multiple aspects, both applicative and theoretical, investigated in various environments and at various scales are encouraged.

Guest Editor

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