

Recent Developments in Earthquake and Environmental Seismology



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[Zoom Link](#) (Mixed-mode)

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Seismic waves have been used in the past to image subsurface Earth structures and locate earthquakes around the globe. In recent years, ultra-dense seismic deployments and optical fiber-based distributed acoustic sensing (DAS), together with advanced signal processing and machine-learning techniques, have revolutionized the way how seismologists examine seismic data. In this talk, I briefly review recent developments in earthquake seismology, focusing on advanced techniques helped to detect millions of subtle seismic events that are buried in the background noises. I also plan to introduce how seismology can be used to monitor temporal changes of subsurface hydrological properties, glacial movements and human activities.




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