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Advances in Sensors and Sensor Networks for Microseismic Monitoring – Disaster Prevention

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Deadline for manuscript submissions: closed (30 June 2023)

Message from the Guest Editors

Dear Colleagues,

We invite submissions to а Special lssue of the *Sensors* journal on the topic of "Advances in Sensors" and Sensor Networks for Microseismic Monitoring -Disaster Prevention". Induced seismicity from mining, tunnelling, hydraulic fracturing, and fluid injection projects, including underground coal mining, tunnel excavation, geothermal system, hydrogen and unconventional gas exploitation, and deep wastewater injection, have been documented worldwide. The potential for the disasters raised in the induced seismicity has affected both public acceptance, facility design and operation, as well as asset and reputation. To address these value issues. microseismic monitoring has been considered as a most effective tool to understand the disaster evolution process and therefore provide guides on the targeted prevention and control strategies. The challenges here mainly include the development of new technologies in the accuracy of sensors, the optimized deployment of sensor networks, the algorithms of seismic parameters calculation, and the assessment methodologies of seismic hazards.



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Editor-in-Chief

Message from the Editor-in-Chief

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