Special Issue

Smart Sensors, Internet of Things, Machine Learning: Coalition Forces on Seismic Monitoring

Message from the Guest Editor

Seismic monitoring is the cardinal and indispensable measurement data supplier to seismology. Providing the most complete and accurate earthquake information, multi-sensor, seismic networks contribute essentially to breakthroughs in studying Earth's interior and in understanding earthquake mechanisms and dynamics, tectonics, seismic hazards, volcanology and in many other disciplines of geophysics and recently planetary physics as well. Permanent global and regional seismic networks, the backbone of passive seismology, reinvigorated by employing diverse high-end sensors, broadband, with high-resolution and dynamic amplitude, yet expensive. Challenges remain concerning covered Earth's surface (unbalanced deployments on land and ocean-bottom) and interstation spacing (sparse coverage), as well to monitor rotational seismic motions.

Guest Editor

Dr. John P. Makris

Department of Electronics Engineering, Hellenic Mediterranean University, Chania, Greece

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Message from the Editor-in-Chief

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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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