

Special Issue

Active Faulting and Seismicity –2nd Edition

Message from the Guest Editor

The relationship between active faulting and seismicity has been investigated mainly since the 1980s, when large earthquakes of magnitude >6 re-activated neotectonic faults with measurable displacements on the fault planes. Soon after, empirical relationships were elaborated between the earthquake magnitude and the fault length or the fault throw. Several dating techniques, such as trenching, C136 dating, etc., have resulted in the estimation of throw rate or slip rate on each fault. The correlation of slip rates with uplift/subsidence rates, erosion rates and GPS rates have increased our understanding of the overall active deformation of a region. A parallel process has been developed for active faulting and seismicity offshore with different techniques, combining detailed digital bathymetric data and litho-seismic profiles. This Special Issue aims to bring the two groups of experts on active faulting and seismicity together, and thus, we invite papers on active faulting and seismicity (1) for on-shore areas, (2) for off-shore areas and (3) for areas combining both on-shore and off-shore domains.

Guest Editor

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