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STT072-P03

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## Detection of geo-disasters triggered by strong ground motion using InSAR analysis

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The deformation by InSAR analysis recognized as the ground subsidence in situ are coincide with the locations of old river channels, the marginal areas of sub-streams' fans and (artificial) embankments.

In landslide areas, the directions of ground deformations detected by InSAR are also coincide with the downward of the slopes. (displacements of some landslides are not recognized in situ)

InSAR would be possibly the powerful tool for detecting the local ground surface deformation as well as the crustal movements caused by the earthquakes.

Keywords: InSAR analysis, strong ground motion, landslide, slope failure