

1. Record Nr.	UNINA9910683390803321
Titolo	Monitoring and Modelling of Geological Disasters Based on InSAR Observations // edited by Chisheng Wang
Pubbl/distr/stampa	Basel, Switzerland : , : MDPI - Multidisciplinary Digital Publishing Institute, , 2023
ISBN	3-0365-6381-4
Descrizione fisica	1 online resource (336 pages)
Disciplina	363.73874
Soggetti	Climatic changes Climate change mitigation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Interferometric synthetic aperture radar (InSAR) has demonstrated its potential in monitoring geological disasters, e.g., in relation to subsidence, landslides, earthquakes, and volcanoes. Such monitoring results provide significant information for further physical modeling, driving mechanism interpretation, developments in early warning technology, and the management and formulation of policies by relevant authorities and stakeholders. This reprint focuses on monitoring and modelling of geological disasters using InSAR observations. The content covers topics such as PS/DS processing, deformation parameter inversion, monitoring deformation (e.g., earthquakes, volcanoes, and oil extraction), and driving mechanism interpretation. These excellent reports significantly contribute to further developments in the monitoring and modeling of geological disasters using InSAR techniques.