

Prétraitement et analyse des données d'interférométrie et d'interférométrie différentielle des images Radar SAR

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Abstract : The work presented in this thesis concerns the study and implementation of an Interferometric and differential Interferometric synthetic aperture radar (InSAR, DInSAR) process in order to generate a Digital Terrain Model (DTM). A particular interest was given to the filtering step, we applied a new method based on subspace decomposition. To validate the algorithm implemented, tests on real data were carried out on the Algiers area.

Keywords : Interferograms; interferometry pre-treatment; differential interferometry; Digital Terrain Model; filtering step; subspace decomposition.