

## عنوان مقاله:

Ground Displacement and Building Damage Estimation of the 2017 Kermanshah Earthquake Using SAR Remote Sensing

## محل انتشار:

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## خلاصه مقاله:

We used two synthetic aperture radar (SAR) datasets with different resolution to monitor the Kermanshah earthquake displacements and the buildings in Sarpole-Zahab town. We have obtained two high resolution dual-polarized (HH and HV) ALOS-2 images in strip map (SM) mode and three dual-polarized (VV and VH) Sentinel-1 images in interferometric wide (IW) mode from ascending orbits. The incidence angle of ALOS-2 and Sentinel-1 datasets were  $36.2^\circ$  and  $38.9^\circ$ , respectively. Temporal baseline of ALOS-2 dataset is 42 days, whereas pre-event and co-seismic temporal baselines of Sentinel-1 dataset are 13 and 18 days, respectively. Human activities after disasters increase and deteriorate the damage proxy maps which sometimes make the damage proxy maps meaningless. Thus, we need post-event images with shortest gaps with the event. Since the revisit cycle of ALOS-2 is rather large, we only use two ALOS-2 images to calculate ground displacement

## کلمات کلیدی:

SAR remote sensing, Kermanshah Earthquake, Damage detection

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1008728>

