

عنوان مقاله:

Studies of Satellite Imagery of SAR and Its Compression Using Contourlet

محل انتشار:

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خلاصه مقاله:

A novel method of Synthetic Aperture Radar (SAR) image compressing was contourlet transform (CT). This method were compared with five usual compression methods including Laplacian compression (LPC), Laplacian Pyramid (GPC), DCT compression (DCT), Block Truncation Coding (BTC), Singular Value Decomposition (SVD) for compression of SAR and POLSAR images. The results showed that the CT methods had the most PSNR and the least MSE among the methods, however the MAXERR of CT was a little more than the other compression methods for both images. Furthermore the LYRAT of CT was the most among the compression methods. Therefore it can be concluded that the CT method is the best method for compression of SAR and POLSAR images.

کلمات کلیدی:

Compression methods, Contourlet transform, SAR images, POLSAR images

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