

## Source Separation for Global Multispectral Satellite Images Indexing

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**Abstract :** In this paper, we propose to prove the importance of the application of blind source separation methods on remote sensing data in order to index multispectral images. The proposed method starts with Gabor Filtering and the application of a Blind Source Separation to get a more effective representation of the information contained on the observation images. After that, a feature vector is extracted from each image in order to index them. Experimental results show the superior performance of this approach.

**Keywords :** blind source separation, content based image retrieval, feature extraction multispectral, satellite images

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