



IMAGE FUSION BASED ON JOINT NONSUBSAMPLED CONTOURLET AND OVERCOMPLETE BRUSHLET TRANSFORMS

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Abstract- This paper proposed an image fusion method based on a novel scheme with joint nonsubsampling contourlet and overcomplete brushlet transform. And an improved region energy operator is employed as the fusion strategy, which can take full advantage of the anisotropic texture information and multidimensional singular information in the new multiresolution domain. Experimental results show that the proposed method improved the fusion results not only in visual effects but also in objective evaluating parameters.

Index terms: Non-subsampled contourlet transform, Over-complete brushlet transform, image fusion, region energy feature.