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Implementation of Image Fusion Techniques Using FPGA

Figure 2. Block diagram of DWT based image fusion. The Figure shows the flow chart to develop the 3 image fusion process. The function developed to perform the image fusion, called wavelet and has four basic blocks: Step 1: images size checking. Step 2: transform to wavelet domain. Step 3: wavelet domain fusion. Step 4: inverse wavelet transforms.

Fusion of two or more images of the same scene to form a single image is known as image fusion. Image fusion process combines the relevant information from two or more images into single image therefore the resultant fused image will be more informative and having important features from each image. Image fusion is important in many different image processing fields such as satellite imaging, remote sensing and medical im-

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In this thesis we deal with multi-focus images. This paper addresses these issues in image fusion: Fused two images by different techniques which present in this research, Quality assessment of fused images with above methods, Comparison of different techniques to determine the best ap-

proach and Implement the best technique by using FPGA.

Image fusion is a process which combines the data from two or more source images from the same scene to generate one single image containing more precise d Implementation of image fusion techniques for multi-focus images using FPGA - IEEE Conference Publication

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Implementation Of Image Fusion Techniques

2. Image Fusion Techniques Four-fusion techniques viz., Alpha Blending, Laplacian pyramid, Principal Component Analysis and Discrete Wavelet Transform are implemented in the Fusion Application. The following sections give a brief description of these techniques. 2.1 Alpha Blending

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