Abstract

Image fusion has lots of application in real life to furnish a combined form of many oriented objects of different images into single image. Adaptive Fuzzy logic model with local level processing is a controlling tool to model image characteristics accurately and been successfully applied to a large number of image processing applications. In this paper an adaptive fuzzy logic model have been proposed with local level processing for fusion of multi-exposure and multi-sensor images. Experimental results demonstrate the superiority of proposed method; it offers approximately 30%-35% improvement in Universal image quality index (UIQI) as compared to Marcov Random Field (MRF) fusion method.

References

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Index Terms

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Keywords

Adaptive Fuzzy logic, local level processing, Multiresolution decomposition, Multispectral image fusion