Abstract

Image fusion is an imperative approach of integrating relevant information from the set of images that may be captured from different sensors, acquired at different time or having different spatial or spectral characteristics. The objective of image fusion technique is to acquire more enhanced, reliable, efficient vignette and minimize redundancy in the output fused image while maximizing relevant information specific to desired application or task. Image fusion play an important role in the area of medical imaging, disaster monitoring, satellite imaging, environmental monitoring, land use/cover change detection, surveillance etc. This paper focuses on the development of an image fusion method using morphological operator like and, or, Erosion, Dilation operator. Consistent analysis of techniques will help in deciding the suitability of a particular technique towards the fusion of large number of images. The results show the proposed algorithm has a better visual quality than the base methods. Also the quality of the fused image has been evaluated using a set of quality metrics.
Image Fusion using Morphological Pyramid Consistency Method


Index Terms

Computer Science Image Processing

Keywords

Dilation erosion image fusion or operator and operator