Abstract

Segmentation is the process of partitioning a digital image into multiple segments. The segmentation task consists of extracting the particles from the image under study. Morphology is a technique for the analysis and processing of the geometrical structures based on set theory and random functions. Morphological image processing is a collection of non-linear operations related to the shape or morphology of features in an image. In this paper we have performed morphological segmentation on Multispectral image of Bareilly region. A multispectral image is one that captures image data at specific frequencies across the electromagnetic spectrum. The four basic morphological operations used in the segmentation of multispectral images are (a) dilation, (b) erosion, (c) opening, (d) closing. After performing all the basic operations of morphological segmentation, we obtained the direction gradient of the multispectral image of bareilly region on Matlab software of version R2010b.
References

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- Jean F. Rivest, Pierre Soille, Serge Beucher, "Morphological gradients".

Index Terms

Computer Science      Emerging Trends in Technology

Keywords

Structuring Element  Erosion  Dilation  Opening  Closing And Gradient