Abstract

Texture is one of the fundamental image characteristics useful in computer vision tasks such as object recognition and scene analysis. Texture segmentation is one of the image analysis tasks. The prospect of texture segmentation depends on the choice of the texture description method and the segmentation procedure. In this paper, color-texture descriptors are proposed to represent the texture contents of the color images. In these texture description schemes, small areas of the image are represented by fuzzy based local texture patterns and the entire image is represented by frequency occurrence of such texture patterns. Supervised segmentation of color images is performed using these color-texture descriptors and promising results are obtained.

References

Color Image Segmentation using Fuzzy Local Texture Patterns


Index Terms

Computer Science    Pattern Recognition
Keywords
Texture Patterns  Fuzzy Local Texture Patterns  Fuzzy Pattern Spectrum  Texture Segmentation