Abstract

The present paper derived a new texture classification tactic using textons and rough sets. Texton is a statistical approach used to analyze the texture of an image. Textures will be developed only if the side elements lie within the contiguity. Texton Image has the discrimination power of color, texture and shape features. In the proposed tactic texton using rough texture spectrum and color features are calculated using HSV color space. Rough texture spectrum covers the entire range that is difficult unless otherwise. Rough set theory is better handles vagueness. The designed mechanism is estimating interesting as it enumerates contrasting visage with confined number of preferred components. The experimental results suggest the adequacy of the present mechanism over the various other approaches.

References

Texture Analysis using Rough Texton

9-810-23071-0, Singapore.


3. Handbook of texture scrutiny, Imperial College Press, 1-84816-115-8, UK.


10. T.N. Tan, Geometric transform invariant texture scrutiny.


19. F. Cohen et al., Classification of rotated and scaled texture images using Gaussian Markov random field portraits, IEEE Trans.


Index Terms

Computer Science                  Pattern Recognition

Keywords

Texton; Rough Sets; Rough Texture Unit; Texture Classification; Texture Unit;