

Maximum Entropy Based Image Segmentation of Human Skin Lesion

Authors : Sheema Shuja Khattak, Gule Saman, Imran Khan, Abdus Salam

Abstract : Image segmentation plays an important role in medical imaging applications. Therefore, accurate methods are needed for the successful segmentation of medical images for diagnosis and detection of various diseases. In this paper, we have used maximum entropy to achieve image segmentation. Maximum entropy has been calculated using Shannon, Renyi, and Tsallis entropies. This work has novelty based on the detection of skin lesion caused by the bite of a parasite called Sand Fly causing the disease is called Cutaneous Leishmaniasis.

Keywords : shannon, maximum entropy, Renyi, Tsallis entropy

Conference Title : ICIAP 2015 : International Conference on Image Analysis and Processing

Conference Location : Montreal, Canada

Conference Dates : May 11-12, 2015