



Implementation and Segmentation of Color Images Using Minimum Spanning Tree

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Abstract

Image segmentation in graph is mostly performed on gray-scale images. So, we suggest an unsubstantiated method for color image segmentation that combines with uncertain outcome in IT (Information theory). Then current image is mapped into a weighted undirected graph in which the pixels are nominated as nodes. To confirm unsubstantiated implementation, function will obtain thresholding with maximum uncertain outcome. Our algorithm is based on prim's algorithm which gives better performance & better complexity as compared to other similar algorithms in segmenting the color image using graph theory. Prims algorithm gives faster performance for small size images.

Keywords: *Segmentation, Entropy, MST, HLS.*

Full text: <https://sites.google.com/a/ijrit.com/papers/home/V1I1166.pdf>