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# STATISTICAL PARAMETERS LIKE PROBABILITY AND ENTROPY APPLIED TO SAR IMAGE SEGMENTATION

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**Abstract**

Image segmentation is an important tool in image processing and can serve as an efficient front end to sophisticated algorithms and thereby simplify subsequent processing. Although many segmentation methods have been proposed in the last decades, there is no generic method that can be applied in a great variety of images. Thus it becomes important to find out method which can give proper segmentation with less complexity and less computation time for wide range of SAR images .Histogram-based image segmentation is one of the simplest and most often used segmentation techniques. We here proposed a histogram based image segmentation of SAR images. Here we compute probability of the image and then we computed entropy using particular window size and applied different thresholds on probability and entropy image. The results are compared with well known co-occurrence matrix method using probability and entropy. Experimental results obtained for SAR images are presented.

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**Keywords**: Entropy, Probability, Sar, Histogram.