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A STUDY OF SEGMENTATION OF DIGITAL IMAGES AND IMAGE PROCESSING FOR PHOTOGRAPHS

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ABSTRACT

In image segmentation, objects are detected or outlined in photographs. When doing geometric analysis, segmentation is a common first step. This is because segmentation is the most essential computing activity conducted on the recorded images. Segmenting images is still a tough challenge in computer vision and image processing, despite decades of work on the subject. Since the degree of subdividing an image is dependent on the issues being addressed, this suggests that segmentation would come to an end once the delineation process is complete. In addition, occluded objects must be separated from one another and from the visual background before characteristics can be retrieved. Researchers can discriminate between TB bacilli and outlier samples tainted by other variables such as dust or food residue, cell macrophages or bacilli killed by macrophages by utilizing image segmentation algorithms.