

ABSTRACT

Only few of us can identify leaves by it's morphology. This is based on polling that writer has done to 20 persons consists of students, housewives, workers, and also entrepreneurs. The result shows that 65% of correspondent can identify betel leaf and 25% can identify guava leaf. But, only 1% of them can identify soursop leaf and takokak leaf, even no one can identify avocado leaf. Whereas, those leaves are around us and can heal lot of illness. It's such a big disadvantage when we can't use the leaves to heal our illness just because we can't identify them. With Androherbs, users can not only identify the leaves, but also find the leaf's ability and how to make the medicine only by capturing it using android's gadget.

This application has two modes, there are structure and color. The difference between structure and color is the preprocessing. Structure mode analyze the input image by leaf's edge, while color mode analyze by it's original (RGB) color. These two modes have the same classification method, it is sum of difference.

Androherbs can identify five kinds of herbs, there are guava leaf, betel, avocado, takokak, and soursop. The accuracy of this application is 58,7% with computing time 4,94 seconds.

Key words : Herbs, Sum of Difference, Edge Detection, Android.