

Classification of Flower Based on Image Using Artificial Neural Network (ANN)

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ABSTRACT

Flowers have various types, and each type has different characteristics through its colour and shape. In everyday life, people rarely know the types of flowers and their characteristics. So that many people were often having difficulties and lazy to find information about the flowers they see. This study aims to build a flower classification system using RGB and HSV colour feature extraction and using ANN (Artificial Neural Network) for classification. The image dataset used is 120 training data and 20 test data from 4 types of flowers. The image dataset is cropped, removed the background and resized before colour extraction is done. After colour extraction, training and prediction from the data are carried out, and a GUI is made using a Tkinter for system testing. The system created has a training accuracy of 100% and testing accuracy of 100% because the colours of the flowers used are not the same; thus, high accuracy can be obtained.

Keywords: flowers, Classification, ANN (Artificial Neural Network), RGB, HSV.