

An Interactive Flower Image Recognition System

徐子翔, 李建興, 陳玲慧

Computer Science & Information Engineering

Computer Science and Informatics

chlee@chu.edu.tw

Abstract

In this paper, we present an interactive system for recognizing flower images taken by digital cameras. The proposed system provides an interactive interface allowing each user to draw an appropriate bounding window that contains the interested flower region. Then, a flower boundary tracing method is developed to extract the flower region as accurately as possible. In addition to the color and shape features of the whole flower region, the color and shape features of the pistil/stamen area will also be used to represent the flower characteristics more precisely. Experiments conducted on two distinct databases consisting of 24 species and 102 species have shown that our proposed system outperforms other approaches in terms of the recognition rate.

Keyword : Flower image recognition, Image segmentation