Abstract

Image pre-processing is a basic step for any image based applications. It is a technique to enhance quality of the images captured from cameras or sensors, aircrafts and space probes or pictures taken for various applications in normal day-to-day life. The accuracy of this technique must be significantly high in order to ensure the success of the subsequent steps. This intended software has the intention to make image preprocessing more efficient and interactive so that the user has clear idea about the outcome of each manipulation. In the intended application, one can manipulate the corrupted image to get the meaningful, desired output by applying various techniques provided in the software. The outcome of the intended application is obtained immediately and reduces the queue time to perform manipulations for the experienced user. If the user is a beginner, then he can go for trial session to try all the techniques and understand their outcome.
Development and Implementation of Graphical User Interface for Image Preprocessing using Matlab


Index Terms

Computer Science

Image Processing
Keywords

Image preprocessing; GUI (Graphical User Interface); Edge Detection; User Friendly Interface; Filters; Segmentation; Morphological Processing.