

# Demo: Contour-based Color Clustering for Robust Binarization of Colored Text

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## Abstract

Complex color documents with both graphics and text, where the text varies in color and size, call for specialized binarization techniques. This demo presents a novel contour-based color clustering method which robustly segments and binarizes colored text from camera-captured images. The method involves color segmentation, text identification and an adaptive binarization technique that takes into account the presence of inverse texts, such that the output image always has black text on a white background irrespective of colors in the input image. Experiments on several images having large variations in font, size, color, orientation and script illustrate the robustness of the method.

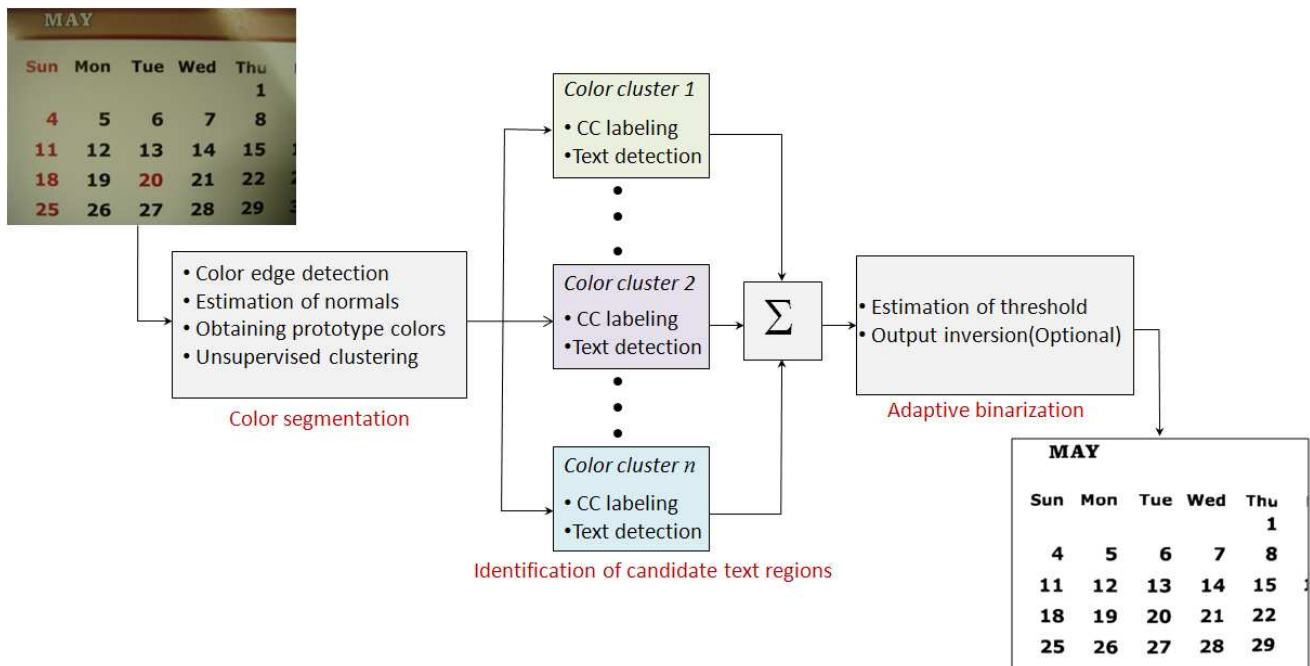


Figure 1. Schematic block diagram of the proposed binarization method.