Abstract

In Text or character recognition in images or video frames is a difficult problem to achieve video data. This paper proposes improved template matching algorithm that applied for the automatic extraction of text from image and video frames. Optical character recognition using template matching is a system model that is useful to recognize the character, digits & special character by comparing two images of the alphabet. The objectives of this system model are to develop a
model for the Optical Character Recognition (OCR) system and to implement the template matching algorithm in developing the system model. The template matching techniques are more profound to font and size variations of the characters than the feature classification methods. This system tested the 35 videos with 700 video frames for each video. Empirical result of this system precision rate is 91.52% for automatic character gets recognized images and video frames. Experimental results show the relatively high accuracy of the new developed robust algorithm when it is tested on several size characters and text.

References

Automatic Video Scene Segmentation to Separate Script for OCR


- Sneha Sharma. 2006,&quot;Extraction of Text Regions in Natural Images&quot;., Masters Project Report, Spring 2006/07.

Index Terms

Computer Science
Multimedia
Keywords
Video Processing  Text Detection  Localization  Tracking  Segmentation  Template Matching
Ocr