Abstract

Text extraction from scene images is a defy subject in light of low resolution, complex background and textual style/text size varieties. In this paper, we design a scheme to detect text based on shape features like Euler Number, a number of pixels for each region which candidate to be a character and vertical distances as a geometric feature between these regions. We divide these features into base features to collect the text regions, and the other features as a filter to discard the non-text regions. We use some threshold with the features either to extract text regions or to discard non-text regions. The proposed method outperforms some existed method through the basis metric.

References

June 2015.
3. Shivakumara P. and et al., Accurate video text detection through classification of low and high contrast images, Pattern Recognition, 43(2010), 2165-2185.
10. Abdel-Rahiem Hashem and et al., A Comparison study on text detection in scene images based on connected component analysis, IJCSIS, vol. 15, no. 2, pp. 127-139, 2017.

Index Terms

Computer Science

Image Processing
Keywords

Scene text, Shape properties, Connected-components analysis.