Abstract

Text information in natural scene images serves as important clues for many computer vision applications such as content-based image retrieval, tourist translator, and assistive navigation. Extraction of such information from natural scene images, involves number of sub stages represented by text information extraction (TIE) system. However, performance of such system is greatly influenced by text localization module. Lots of work has been reported in this field, but it still remained as a challenging problem, due to two main issues: different variety of text patterns like sizes, fonts, orientations, colors, and presence of background outliers similar to text characters, such as windows, bricks. The purpose of this paper is to study and surveyed existing text localization method and challenges for the same.
A Survey on Text Localization Method in Natural Scene Image

- Quan Meng, Yonghong Song, Yuanlin Zhang, Yang Liu, "Text Detection in natural scene with edge analysis," 2013.
- Xu-Cheng Yin, Xuwang Yin, Kaizhu Huang, and Hong-Wei Hao, "Robust Text Detection in Natural Scene Images," IEEE TRANSACTIONS on Pattern Analysis and Machine Intelligence, VOL. 36, NO. 5, MAY 2014.
A Survey on Text Localization Method in Natural Scene Image

- Derek Ma, Qiuhau Lin, Tong Zhang, "Mobile Camera Based Text Detection and Translation", Stanford University, Nov 2000.
- Adrian Canedo and Jung H. Kim, "English to Spanish Translation of Signboard Images from Mobile Phone Camera", SOUTHEASTCON 2009 IEEE.

Index Terms

Computer Science

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Keywords

Scene text detection  Scene text localization  Scene text extraction  Connected component (CC)-based approach

CC clustering.