Abstract

Text is one of the most important features in images and videos. It can be used for various analysis purposes. Natural scene text is the text which is automatically present in the scene like sign board etc. In this research work, a method is proposed to detect text in Natural scene videos using MapReduce and MSER (Maximally Stable Extremal Regions). The proposed text detection technique is analyzed on three different classifiers: SVM, LDA and Random forest classifiers. This text detection is very useful in today’s era where ‘data’ is everything.

References


2. ‘Big Data and Analytics’ Seema Acharya, Subhashini Chellappan by Wiley India pvt. Ltd.

3. PROFESSIONAL Hadoop® Solutions Boris Lublinsky Kevin T. Smith Alexey Yakubovich
Copyright c 2013 by John Wiley & Sons, Inc., Indianapolis, Indiana.
4. Julinda Gllavata, Ralph ewerth and Bernd Freisleben ' Arobust algorithm for text detection
in images'
5. Ankur Shrivastava, Dhananjay Kumar, Om shrivastav : Text extraction in video
6. Chucai Yi, Yingli Tian ' Text detection in natural scene images by Stroke Gabor Words'
7. Anna Zhu, Renwu Gao, seiichi Uchida, 'could scene context be beneficial for scene text
detection' Pattern Recognition,58 2016, 204-215
8. Salem Sayahi, Mohamed Ben Halima,' An intelligent and robust multi oriented image
scene text detection'. International conference on Soft computing and pattern recognition
9. Qixiang Ye, Qingming Huang, Wen Gao, Debin Zhao ' Fast and Robust detection in
11. Lei Sun, Qiang Huo, Wei jia, Kai Chen ‘ A robust approach for text detection from natural
scene images’ Pattern Recognition, 45, 2016, pg 2906- 2920.
‘Text detection and recognition using enhanced MSER Detection and a novel OCR
technique. 2015 fifth international conference on Informatics, Electronics and vision.
13. Houssem Turki, Mohamed Ben Halima, Adel M.Alimi, Scene Text Detection Images
With Pyramid Images and MSER enhanced. 2018
Transform'. 2015,fifth international conference on communication systems and network
technologies.
15. Lluis Gomez, Dimosthenis Karatzas: 'MSER- based Real-Time Text detection and
Tracking'22nd International conference on Pattern Recognition, 2014.
16. AbdelKarim Ben Ayed,Mohamed Ben Halima and Adel M. Alimi, MapReduce based text
detection in big data natural scene videos procedia computer science, INNS conference on
17. Ashwin Ittoo, Le Minh Nguyen, Antal Van Den Bosch, Text Analytics in industry:

Index Terms

Computer Science Information Sciences

Keywords

Text detection, MSER, MapReduce, Big Data, Classifiers.