Manuscript ID : 00001-53537

International Journal of Computer Sciences and Engineering

Volume 9, Issue 1, January 2021, Pages 44-50, Page Count - 7

Scope Database Indexed www.sdbindex.com

Source ID : 00000518

Real-Time Human Detection in Video Surveillance

Chalavadi Sravanth ^{(1)*} Gadde Harshavardhan ⁽²⁾ Kamineni Kavya ⁽³⁾ Shaik Mohammad Akbar ⁽⁴⁾ Ch.M.H. Sai Baba ⁽⁵⁾

⁽¹⁾ Department of Computer Science, K L (Deemed to be University), Green Fields, Vaddeswaram, Guntur District, Andhra Pradesh, India.
⁽²⁾ Department of Computer Science, K L (Deemed to be University), Green Fields, Vaddeswaram, Guntur District, Andhra Pradesh, India.
⁽³⁾ Department of Computer Science, K L (Deemed to be University), Green Fields, Vaddeswaram, Guntur District, Andhra Pradesh, India.
⁽⁴⁾ Department of Computer Science, K L (Deemed to be University), Green Fields, Vaddeswaram, Guntur District, Andhra Pradesh, India.
⁽⁵⁾ Department of Computer Science, K L (Deemed to be University), Green Fields, Vaddeswaram, Guntur District, Andhra Pradesh, India.

Abstract

The basic Fundamental to human-centric computer vision is to make the human motion see and understandable by machines. The hectic task is that the video containing enormous amount of information in the form of pixels, much of meaningless to a computer unless it can decode the data within the pixels. To make it possible, computer what is the mechanism behind which pixel go together and what it represents. The process of detecting and tracking the pixels representing the form of humans is to be notified as Human motion capture. Where there is a lacking of count of the people and we want to overcome. We plan to achieve this goal using intermediate level deep learning project on computer vision concepts, where deep learning is an AI method that imitate the functioning of human brain in processing data for use of object detection, speech recognition, translating languages, and making decisions. OpenCV is the place where it deals will all sorts of camera related things and make the detection easier. This work represents that how a human is detected and counted using SVM. The main idea is to detect the patterns of human motion, to a larger extent which is independent of differences in appearance. To do so, an HOG descriptor is used to detect the patterns of the frame captured, the greatest use of this descriptor is that it detects the patterns with the direction of the movement of the captured picture and hence it makes the job easy to train the pictures using the SVM and get the human detected.

Author Keywords

Computer Vision, OpenCV, Support Vector Machine; HOG Descriptor, Video Surveillance, Human Detection

ISSN Print: Source Type: Journals Publication Language: English Abbreviated Journal Title: IJCSE Publisher Name: ISROSET Major Subject: Physical Sciences Subject area: Human-Computer Interaction

Reference

ISSN Online: 2347-2693 Document Type: Journal Article DOI: https://doi.org/10.26438/ijcse/v9i1.4450 Access Type: Open Access Resource Licence: CC BY-NC Subject Area classification: Computer Science Source: SCOPEDATABASE