

Deep Learning Approach for Suspicious Activity Detection from Surveillance Video

Prof. Malan Sale¹, Arvind Patkal², Harshal Mahale³, Jyoti Lavhale⁴, Sunayana Apsingekar⁵

Faculty, Department of Computer Engineering¹

Students, Department of Computer Engineering^{2,3,4,5}

Sinhgad College of Engineering, Vadgaon Bk. Pune, Maharashtra, India

Savitribai Phule Pune University, Pune, Maharashtra, India

Abstract: *Suspicious Activity is predicting the body part of a person from video. This project will entail detecting suspicious human activity from video using neural networks. Suspicious human activity detection from surveillance video is an active research area of image processing and computer vision. Using visual surveillance, human activities can be monitored in public areas such as bus stations, railway stations, airports, banks, shopping malls, school and colleges, parking lots, roads, etc. to prevent terrorism, accidents and illegal parking, vandalism, fighting, crime and other suspicious activities. It is very tough to watch public places continuously, so we use an intelligent video surveillance, It is required to monitor the human activities from video and categorize them as usual and unusual activities; and can generate an alert.*

Keywords: Video Surveillance, Suspicious Activity, neural networks

REFERENCES

- [1]. P.Bhagya Divya, S.Shalini, R.Deepa, Baddeli Sravya Reddy, "Inspection of suspicious human activity in the crowdsourced areas captured in surveillance cameras", International Research Journal of Engineering and Technology (IRJET), December 2017.
- [2]. Jitendra Musale, Akshata Gavhane, Liyakat Shaikh, Pournima Hagwane, Snehalata Tadge, "Suspicious Movement Detection and Tracking of Human Behavior and Object with Fire Detection using A Closed Circuit TV (CCTV) cameras", International Journal for Research in Applied Science & Engineering Technology (IJRASET) Volume 5 Issue XII December 2017.
- [3]. U.M.Kamthe, C.G.Patil "Suspicious Activity Recognition in Video Surveillance System", Fourth International Conference on Computing Communication Control and Automation (ICCUBEA), 2018.
- [4]. Zahraa Kain, Abir Youness, Ismail El Sayad, Samih Abdul- Nabi, Hussein Kassem, "Detecting Abnormal Events in University Areas", International conference on Computer and Application, 2018