## **IJARSCT**



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 4, Issue 1, April 2024

## **Crime Activity Detection System**

Fija Sayyad<sup>1</sup>, Puja Parasur<sup>2</sup>, Sarala Chattar<sup>3</sup>, Dnyaneshwari Rakshe<sup>4</sup>, Prof. Dipali Dube<sup>5</sup>

Students, Department of Computer Engineering<sup>1,2,3,4</sup>
Professor, Department of Computer Engineering<sup>5</sup>
Vidya Niketan College of Engineering, Ahmednagar, Maharashtra, India
fijasayyad2001@gmail.com, pujaparasur30@gmail.com, saralachattar@gmail.com
dnyaneshwari55@gmail.com, dipalidube555@gmail.com

Abstract: Video Surveillance plays a pivotal role in today's world. The technologies have been advanced too much when artificial intelligence, machine learning and deep learning pitched into the system. Using above combinations, different systems are in place which helps to differentiate various crime behaviors from the live tracking of footages. The most unpredictable one is human behavior and it is very difficult to find whether it is detecting crime or not. Deep learning approach is used to detect crimeor normal activity in an academic environment, and which sends an alert message to the corresponding authority, in case of predicting a crime activity. Monitoring is often performed through consecutive frames which are extracted from the video.

**Keywords:** Deep Learning, Crime detection, CNN, image processing etc.

## REFERENCES

- [1]. Bhagya Diva, Shalini, Deepa, Baddeley Saravia 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]. F. Yuan, "An integrated fire detection and suppression system based on widely available video surveillance," Mach. Vis. and Apps., vol. 21, pp. 941–948, 2010.
- [3]. Y. Luo, L. Zhao, P. Liu, and D. Huang, "Fire smoke detection algorithm based on motion characteristic and convolutional neural networks," Multimedia Tools and Applications, pp. 1–18, 2017.
- [4]. S. Guler and M. K. Farrow, "Abandoned Object Detection in Crowded Places," 9th IEEE International Workshop on PETS, 2006.
- [5]. L. A. Lim and H. Y. Keles, "Foreground Segmentation Using a Triplet Convolutional Neural Network for Multiscale Feature Encoding".
- [6]. A., Singh, M., Bhatia, K., Kumar, A., Jain, P., and Varma, M. (2018). Fastgrnn: A fast, accurate, stable and tiny kilobyte sized gated recurrent neural network. In Advances in Neural Information Processin Systems, pages 9017–9028
- [7]. U.M. Katha, C.G. Patil "Suspicious Activity Recognition in Video Surveillance System", Fourth International Conference on Computing Communication Control and Automation (ICCUBEA), 2018.
- [8]. 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

DOI: 10.48175/IJARSCT-16910

