



All



ADVANCED SEARCH

Conferences > 2023 International Conference... ?

Pattern Recognition Algorithm to Detect Suspicious Activities

Publisher: IEEE

Cite This

PDF

V C Mahavishnu ; S G Vikhas ; T Shyamganeshe ; S Roopakumar ; S V Kavin All Authors

1 Cites in Paper

83 Full Text Views



Alerts

Manage Content Alerts Add to Citation Alerts

Abstract

Document Sections

- I. Introduction
- II. Literature Survey
- III. Datasets and Features
- IV. Methodologies
- V. Proposed Model

Show Full Outline

Authors

Figures

References

Citations

Keywords

Metrics

More Like This



Downl PDF

Abstract:

Detecting suspicious activities in public places with higher people gathering and interaction has turned out to be an act with growing interest due to the increasing numb... **View more**

Metadata

Abstract:

Detecting suspicious activities in public places with higher people gathering and interaction has turned out to be an act with growing interest due to the increasing number of crime scenes and causalities happening in these days. Surveying and tracking of human activities are increasingly difficult owing to the random nature of human movements and actions. The reliability is greatly affected due to this randomness. Also a human operator cannot continuously monitor multiple screens efficiently in a consequent manner so an automated surveillance system deployment becomes a necessity. Currently, tracking individuals may be done remotely, and the analysis of the recorded images can be automated using object detection models, with the help of high resolution cameras and the development of machine learning techniques. This proposed system aims in identifying threats that are probable to occur in a public gathering or space which may be an explosion, accident or possession of armoury, etc. This proposed model takes advantage of the information from the image data to learn complex patterns and develop pattern recognition technique to identify the anomalies using high resolution camera and alert the monitoring authority in order to take the necessary actions. This proposed work compares various object detection techniques of machine learning algorithms and suggests the best model based on its performance metrics.

Published in: 2023 International Conference on Sustainable Computing and Smart Systems (ICSCSS)

Date of Conference: 14-16 June 2023

DOI: 10.1109/ICSCSS57650.2023.10169859

Date Added to IEEE Xplore: 07 July 2023

Publisher: IEEE

ISBN Information:

Conference Location: Coimbatore, India