SYNOPSIS

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Project Title	DRONE ASSISTED PUBLIC SAFETY SYSTEM

Abstract: — Public safety networks are based on wireless communication technologies, and are particularly important in field operations to support the mobility of first responders. With enhanced functionalities and capabilities, unmanned aerial vehicles, commonly referred to as drones, can be equipped with communication hardware and sent to suitable positions in the field to augment the operation of public safety networks. Security is of primary importance in such drone-assisted public safety networks because sensitive or critical information could be transmitted among these network entities. In this deep learning based project a quadcopter-based solution is proposed to monitor desired premises for any unusual activities, like the movement of persons with weapons and face detection to achieve the desired surveillance. After detection of any unusual activity, the proposed system generates an alert for security personals. The proposed solution is based on quadcopter surveillance and video streaming for anomaly detection in the received video streams through deep learning models.

A well-known FasterRCNN algorithm is modified for fast learning with feature reduction in the initial feature extraction step.

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