LITERACTURE SURVEY (VIRTUAL EYE – DROWNING DETECTION)

S.no	Title	Author	Method/Approach	Advantages	Disadvantages	Year
1.	Human Detection from Images and Videos	**Duc Thanh Nguyen Wanqing Li Philip O. Ogunbona**	This paper aims to provide a comprehensive survey on the recent development and challenges of human detection. Different from previous surveys, this survey is organised in the thread of human object descriptors.	This approach has advantages in providing a thorough analysis of the state-of-the-art human detection methods and a guide to the selection of appropriate methods in practical applications	cChallenges such as occlusion and real-time human detection are analysed.	2015
2.	Deep Learning based Effective Identification of EU-GDPR Compliant Privacy Safeguards in Surveillance Videos	**Mamoona Asghar**	With video surveillance through Closed Circuit Television (CCTV) cameras becoming increasingly ubiquitous, maintaining the integrity of such videos assumes significance to guarantee compliance with privacy protection laws. Recently adopted European General Data Protection Regulation (EU-GDPR) suggests encryption as a reversible safeguard for all types of data protection.	Traditionally, data encryption methods deal with naïve encryption of the videos which is not advisable if the intention is to provide efficient privacy to some important parts/areas in the video. This has resulted in the research being directed towards Features-of-Interest (FOI) based privacy protection schemes	Results show that the lightweight DL model is suitable for deployment on low-resource hardware (such as Raspberry Pi's)	2021
3.	Hybridized Yolov4 for Detecting and Counting People in Congested Crowds	**Muhammad Haris Kakakhel**	Crowd monitoring has been gaining attention among researchers for a wide range of applications. Such applications may include abnormal behavior detection for	In places of worship and public squares where large crowds regularly cause significant health and security issues, detection of humans can play a critical role.	In crowded situations, different people meet each other with considerable overlaps, which makes crowds with the highly challenging	2022

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			security reasons, monitoring of crowds for reporting, and people counting for structural and facility planning purposes		issue of occlusion	
4.	FA-YOLO: An Improved YOLO Model for Infrared Occlusion Object Detection under Confusing Background	Shuangjiang Du	Infrared target detection is a popular applied field in object detection as well as a challenge. This paper proposes the focus and attention mechanism-based YOLO (FA-YOLO), which is an improved method to detect the infrared occluded vehicles in the complex background of remote sensing images.	The detection accuracy-mAP improves from 79.24% to 92.95%, and the F1 score improves from 77.92% to 88.13%,	To verify the superiority of our model, we carefully select 318 infrared occluded vehicle images from the VIVID-infrared dataset for testing.	2021
5.	Computer Vision Based Human Detection	Md Ashikur. Rahman	From still images human detection is challenging and important task for computer vision-based researchers. By detecting Human intelligence vehicles can control itself or can inform the driver using some alarming techniques.	This system is tested in different position for detecting human. From the experimental result we conclude that performance of the system is satisfactory	The major limitation of the thesis is that the system is not dynamic. It only can detect human from still images.	2017