## **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, May 2024

## Review on Human Detection in Catastrophe Scenarios Using UAV and Deep Learning Techniques

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**Abstract:** In catastrophe scenarios, such as natural disasters or humanitarian crises, rapid and accurate detection of human presence is critical for effective response and rescue operations. Unmanned Aerial Vehicles (UAVs) equipped with computer vision algorithms have emerged as a promising solution for remote sensing and human detection in such scenarios. This survey paper provides an overview of the state-of-the-art techniques for human detection using UAVs, with a focus on the integration of You Only Look Once (YOLO) object detection and DeepSORT (Deep Simple Online and Realtime Tracking) tracking algorithms.

**Keywords:** Artificial Intelligence, Deep Learning, Human Detection, You Only Look Once (YOLOv8), DeepSORT.

DOI: 10.48175/IJARSCT-18090

