

Littering Management - Survey on Algorithms

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Abstract: This literature review critically examines the utilization of CCTV cameras and real-time object detection to address the issue of littering from moving vehicles. The paper explores the core objective of identifying waste disposal instances, focusing on sophisticated image processing techniques for accurate license plate details capture. Through the integration of technology, the review discusses how the system detects and documents littering, facilitating the imposition of fines on registered vehicles. The strategic fusion of CCTV cameras and advanced image processing is analyzed for its effectiveness in deterring irresponsible waste disposal and reinforcing anti-littering regulations. The literature review contributes to a comprehensive understanding of this approach's impact on fostering a cleaner and more environmentally conscious urban environment.

Keywords: Littering Management, Artificial intelligence, CNN, Object Detection, Yolo, Waste Management.

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