

A Literature Survey on Spotting Potholes Using ML

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Abstract: This review of the literature explores the field of pothole detection with state-of-the-art Machine Learning (ML) techniques. Given the growing worries about vehicle safety and road infrastructure upkeep, the study thoroughly examines a large number of research articles that cross the boundaries of computer vision, signal processing, and machine learning techniques. This research looks at a variety of approaches, from sensor-based approaches that use accelerometers and gyroscopes to image-based approaches that use convolutional neural networks. The survey also highlights how pothole detecting methods have changed over time by objectively analyzing the advantages and disadvantages of each technique. This survey seeks to provide a thorough overview of the state-of-the-art in pothole identification through machine learning by combining ideas from a variety of sources, opening up new directions for future research and developments in this important field

Keywords: Pothole Detection, Machine Learning, Convolutional Neural Networks (CNN), Infrastructure Monitoring, Road Maintenance

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