

Analyzing Streets for Potholes

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Project Misson

By analyzing 2D images to identify and mark road potholes on Google Maps, we can improve road safety at night and reduce the risk of accidents caused by potholes. It also improves the efficiency of road maintenance, as maintenance teams can find and repair potholes more accurately.





Original image

Snow removal image

Rain removal image



Original image



Fog removal image

Key Aspects of the Project

Image analysis algorithm:

Utilizing algorithms such as OpenCV, edge detection, morphological processing, and extreme condition handling to implement a 2D image Pothole recognition algorithm.

Data Integration and presentation: Identification and location data is integrated into Google Maps using the Google API so that users can see the exact location of potholes.

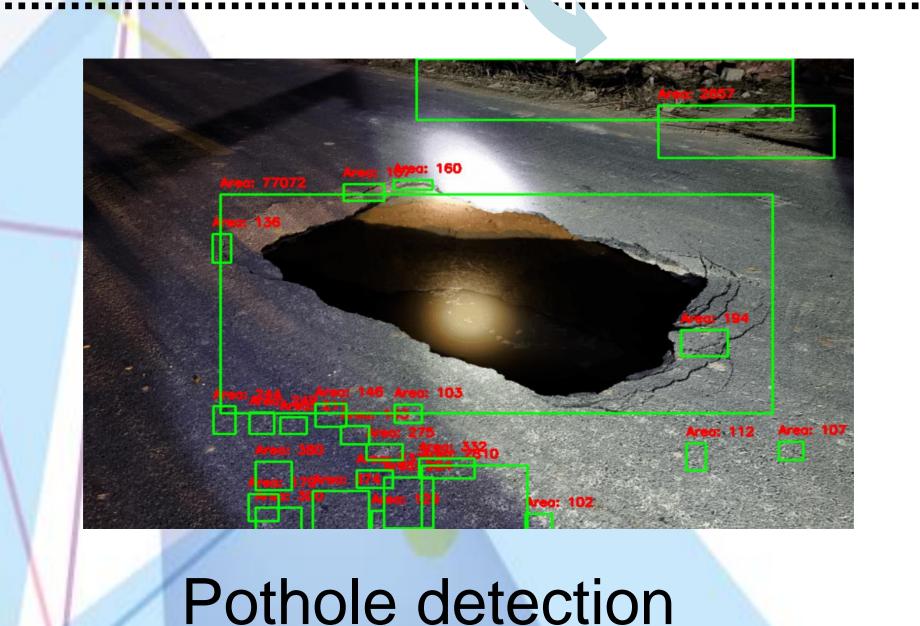
Confirm the purpose of the task

OpenCV image processing

Handling of Bad Weather Environment

Get potholes location by Google API

Combining all functions and implement machine learning



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The location of pothole