

POTHOLES AND PITFALLS SPOTTER

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ABSTRACT

This paper mainly aims on the idea for the pothole detection system. This paper addresses some of the key steps and some of the challenges of the detection system. It reviews various types of software and hardware of various levels currently used. We also have proposed an algorithm which could compute the working of the whole system in short. We have come up with a low-cost, road-surface-monitoring method, which employs acceleration sensors mounted on public transport buses, as a viable solution to this problem. According to this method, the sensors record vertical and horizontal accelerations experienced by the vehicle on its route while a GPS device separately logs its corresponding GPS coordinates. The collected data can be then processed to locate potholes along the path traversed earlier by the vehicle. [2] This system also takes care of alerting the government authorities about a pothole or bad road on its own. Every time a commuter passes over a pothole the government will be alerted until and unless they come and repair that road.[3] In the conclusions, questions still open and opportunities for future research are discussed.

KEYWORDS: Pothole Detection, Artificial Intelligence, Robot, Fire Bird 5, Robot Application