

VISION BASED POT HOLE DETECTION SYSTEM

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ABSTRACT

A pot hole is a structural failure which is caused by the presence of water in the underlying soil structure. With the rapid increase of population there has been an increasing load on the infrastructure. Roads have been subjected to heavy traffic. Every year there is an incremental growth of accidents due to heavy rain, oil spills, low quality road construction, heavy traffic which resulted in inevitable wear and tear, hurdles on road like pot holes and also speed breakers. This paper presents the safety aspects to reduce accidents by detecting and avoiding the pot holes while driving through the navigation method. The sensors detect any obstacles, oil spills, pot holes and avoids accidents by suggesting the driver to choose an alternative route which is safe for driving. This module is implemented by using Image processing, image enhancement techniques and noise filtering concept. Which produces noise free result to the navigator for safe navigation. Hence it implements a safety measure to avoid road accidents.

KEYWORDS: - Sensors, Spills, Pot holes, Hurdles. Image processing, Image enhancement.