

(54) Title of the invention : AN IMAGE PROCESSING SYSTEM BASED ON IOT FOR OBSTACLE DETECTION ON ROADS

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(57) Abstract :
 The proposed invention is an image processing system based on the Internet of Things (IoT) for obstacle detection on roads. It aims to enhance road safety by utilizing advanced image processing algorithms and interconnected sensors to detect and identify potential obstacles or hazards on the road in real-time. The system combines the power of computer vision with IoT infrastructure to provide comprehensive coverage, accurate detection capabilities, and timely responses to potential obstacles. By leveraging the IoT infrastructure, the system can exchange data with other transportation management systems, traffic monitoring systems, and infrastructure components, enabling coordinated responses and improved traffic flow. The proposed invention offers scalability, adaptability, and integration potential, making it a valuable solution for both urban and rural road networks. It has the potential to revolutionize obstacle detection systems, ensuring safer road environments for all users. Accompanied Drawing [FIGS. 1-2]

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