

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

(51) International classification :A61G 050600, C09D 052200, E06B 096800, G01S 139310, H01J 250400
 (86) International Application No :PCT//
 Filing Date :01/01/1900
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :

1)Dr.Kandunuri Ramakrishna

Address of Applicant :Professor, Department of Computer Science and Engineering, Malla Reddy Engineering College for Women [MRECW], Maisammaguda, Dhulapally, Kompally, Medchal Road, Secunderabad, Telangana, India. Pin Code:500100 -----

2)Mr.J.Ashok**3)Dr.B.Anupriya****4)Dr.Ajit Kumar Rout****5)Dr.Jaishri Wankhede****6)Dr.Dasari Vijaya Kumar****7)Dr.A.Shyamala****8)Dr. Naga Gopi Raju Vullam****9)Dr.T.Syamsundararao****10)Mr.G.Kiran Kumar**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr.Kandunuri Ramakrishna

Address of Applicant :Professor, Department of Computer Science and Engineering, Malla Reddy Engineering College for Women [MRECW], Maisammaguda, Dhulapally, Kompally, Medchal Road, Secunderabad, Telangana, India. Pin Code:500100 -----

2)Mr.J.Ashok

Address of Applicant :Assistant Professor, Department of Mechanical Engineering, JNTUH University College of Engineering-Sultanpur, Pulkal, Sangareddy, Telangana, India. Pin Code:502273 -----

3)Dr.B.Anupriya

Address of Applicant :Associate Professor, Department of Civil Engineering, Periyar Maniammai Institute of Science and Technology, Vallam, Thanjavur, Tamil Nadu, India. Pin Code:613403 -----

4)Dr.Ajit Kumar Rout

Address of Applicant :Professor, Department of Information Technology, GMR Institute of Technology, Rajam, Vizianagaram, Andhra Pradesh, India. Pin Code:532127 -----

5)Dr.Jaishri Wankhede

Address of Applicant :Associate Professor, Department of Computational Intelligence, MRCET, Maisammaguda, Kompally, Secunderabad, Telangana, India. Pin Code:500100 -----

6)Dr.Dasari Vijaya Kumar

Address of Applicant :Principal and Professor, Kodada Institute of Technology and Sciences for Women, Kodada, Suryapet District, Telangana, India. Pin code:508206 -----

7)Dr.A.Shyamala

Address of Applicant :Professor, Department of Electronics & Communication Engineering, Mohamed Sathak Engineering College, Kilakarai, Ramanathapuram District, Tamil Nadu, India. Pin Code:623806 -----

8)Dr. Naga Gopi Raju Vullam

Address of Applicant :Professor and HOD, Chalapathi Institute of Technology, Mothadaka, Guntur, Andhra Pradesh, India. Pin Code:522016 -----

9)Dr.T.Syamsundararao

Address of Applicant :Associate Professor, Department of CSE-Data Science, KKR & KSR Institute of Technology and Sciences, Vinjanampadu, Guntur, Guntur District, Andhra Pradesh, India. Pin Code:522017 -----

10)Mr.G.Kiran Kumar

Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Institute of Aeronautical Engineering, Hyderabad, Telangana, India. Pin Code:500043 -----

(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]

No. of Pages : 21 No. of Claims : 10