

(54) Title of the invention : METHOD AND SYSTEM FOR PROVIDING AN INTELLIGENT COLLISION DETECTION SYSTEM FOR DETERMINING ACCELERATION AND VELOCITY OF VEHICLES AND ALERTING SURROUNDING USERS

<p>(51) International classification :G08G0001160000, G08G0001010000, B60Q0005000000, G01C0021360000, G08G0001000000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)R.V.R & J.C COLLEGE OF ENGINEERING Address of Applicant :R.V.R & J.C COLLEGE OF ENGINEERING CHOWDAVARAM, GUNTUR-522 019 ANDHRA PRADESH, INDIA ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. AYYAGARI SRI NAGESH (Professor) Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, RVR & JC COLLEGE OF ENGINEERING, CHOWDAVARAM, GUNTUR-522019 asrinagesh@gmail.com ----- 2)M. VASAVI (Assistant Professor) Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, RVR & JC COLLEGE OF ENGINEERING, CHOWDAVARAM, GUNTUR-522019 vasavilahari@gmail.com ----- 3)PALADUGU RAMA KRISHNA (Assistant Professor) Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, RVR & JC COLLEGE OF ENGINEERING, CHOWDAVARAM, GUNTUR-522019 mails4prk@gmail.com ----- 4)Dr. SUDHA SREE CH (Assistant Professor) Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE & BUSINESS SYSTEMS, RVR & JC COLLEGE OF ENGINEERING, CHOWDAVARAM, GUNTUR-522019 chekuri.sudha@gmail.com ----- 5)R. MABU BASHA (Assistant Professor) Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, RVR & JC COLLEGE OF ENGINEERING, CHOWDAVARAM, GUNTUR-522019 mabubashar@yahoo.com ----- 6)PULICHERLA SIVA PRASAD (Assistant Professor) Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, RVR & JC COLLEGE OF ENGINEERING, CHOWDAVARAM, GUNTUR-522019 prasadsiva17@yahoo.com ----- 7)Dr. PRASANTHI BOYAPATI (Assistant Professor) Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING (IOT), RVR & JC COLLEGE OF ENGINEERING, CHOWDAVARAM, GUNTUR-522019 praasanthiboyapati110@gmail.com ----- 8)BEZAWADA MANASA (Assistant Professor) Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, RVR & JC COLLEGE OF ENGINEERING, CHOWDAVARAM, GUNTUR-522019 manasabezawada04@gmail.com ----- 9)ARAVINDA KASUKURTHI (Assistant Professor) Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE & BUSINESS SYSTEMS, RVR & JC COLLEGE OF ENGINEERING, CHOWDAVARAM, GUNTUR-522019 aravindakasukurthi@gmail.com ----- 10)YASWANTH KUMAR ALAPATI (Assistant Professor) Address of Applicant :DEPARTMENT OF INFORMATION TECHNOLOGY, RVR & JC COLLEGE OF ENGINEERING, CHOWDAVARAM, GUNTUR-522019 alapatimail@gmail.com -----</p>
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(57) Abstract :
ABSTRACT METHOD AND SYSTEM FOR PROVIDING AN INTELLIGENT COLLISION DETECTION SYSTEM FOR DETERMINING ACCELERATION AND VELOCITY OF VEHICLES AND ALERTING SURROUNDING USERS The present invention provides an approach for providing an intelligent collision detection system for determining acceleration and velocity of vehicles and alerting surrounding users. The invention provides a method for implementing collision detection comprising a processor; a storage unit; a memory unit; predicting a future position of the detected VRU, based on the VRU position upon detection and the determined VRU velocity; determining a geographical position of the vehicle; extracting statistical information related to a probability of a collision at the determined geographical position, wherein the probability of a collision is increased at geographical positions where a number of traffic accidents is exceeding a threshold limit; and alerting surrounding users in real time regarding any upcoming vehicle collisions.

No. of Pages : 19 No. of Claims : 5