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(54) Title of the invention : SMART PARKING AND VEHICLE NAME PLATE DETECTION

(51) International classification	:B62D 15/02	(71)Name of Applicant : 1)Dr. RAJA REDDY. DUVVURU Address of Applicant :Department of EEE, Malla Reddy Engineering College (Autonomous) Maisammaguda, Secunderabad -500100, Telangana State, India Telangana India
(31) Priority Document No	:NA	2)Mr. RAJESH REDDY. DUVVURU
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	1)PALLETI VENKATA KUSUMA
(86) International Application No	:NA	2)B V Sowjanya
Filing Date	:NA	3)Dr. Dumpa Prasad
(87) International Publication No	: NA	4)Dr. Sireesha Vedururu
(61) Patent of Addition to Application Number	:NA	5)Dr. P RAHUL REDDY
Filing Date	:NA	6)NOORSAHEBGARI SHEHANAZ
(62) Divisional to Application Number	:NA	7)Dr. Vijaykrishna Boyina
Filing Date	:NA	8)SAINADH SINGH KSHATRI

(57) Abstract :
This proposed design solves the problem of unnecessary time consumption in finding parking slot at the user end and vehicle owner information retrieval at the service provider end by introducing a Smart parking system. Smart Parking System, automated with Peripheral Interface Controller PIC is capable of allotting a slot as soon as the vehicle reaches the entrance and intimates the allotted slot to the user through Short Message Service (SMS). In the mean time, the system detects the number plate and identifies the vehicle owner's address owner's identity. An enhancement of Car License Plate Detection method using Vertical Edge Detection Algorithm with reduced computation time and complexity is used for license plate detail retrieval. The system is cost effective as it relies on simple IR transceivers for parking slot detection and images retrieved by CCTV camera or web camera used for capture the whole image. The image captured from the camera detects the license plate of the vehicle.

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