Abstract

In the modern era of advanced parking management system, the automatic parking space detection system has been introduced in the new form. This is an emerging area and attracts computer vision researchers to contribute to this field of technology. Proposed system is based on Prewitt Edge Detection method which is able to recognize the occupied and free space parking slots which may reduces the human efforts. In the field of intelligent vehicles and parking management systems, accuracy is often important because human facilities are required. It is necessary to get accurate results at real-time through which an intelligent parking slot or space can be detected which can be implemented with the newly introduced technique. The system is also capable of recognizing that the vehicle has been partially parked, fully parked or wrong parked. There is no need for human surveillance while parking vehicles in real time. The system is capable of classifying vehicles along with humans as well, through which a right decision can be made on a situation where the human or animal has captured the slots. This is a new era of parking management where computer vision plays an important role.
References


Index Terms

Computer Science  Information Systems

Keywords

Parking Occupancy Detection, OpenCV, Prewitt, Canny, Edge, Computer Vision.