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TECHNIC AND COMPUTER

THE SMART PARKING: QUEUE AND INTELLEGEN PARKING SYSTEM IN SURABAYA

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ABSTRACT

Internet of Think (IoT) smart parking is a concept utilizing internet connected with parking area as well as service facility located in business center, economy, mail and office. Vehicles that will use their parking space can access the required data and information which include vacant land information, the direction of the entrance of the parking and the direction of the exit. In addition there is some information that is not less important such vehicles include queues in the area and the amount of costs that must be incurred. This paper we use AI as a means of information for the driver. Connection required between the driver with the smart parking system using a wireless network installed in the parking lot of course the sensor equipment that exist in the parking lot is connected to the data server. When the vehicle at the time of reservation then the vehicle will be automatically guided to the specified place, other than that the place will be targeted only for one vehicle and can not be distributed to other vehicle users. If a vehicle that wants to get out of the parking lot to eat this system will guide where to get out of the parking lot and in this system will give the mark of abandoned land can be used other riders. With this system the use of parking space will be more efficient because it will provide information that can be occupied land, guiding the location of the parking lot and the direction out of the parking lot.

Keywords : IoT, Smart Parking, Wi-Fi, Efisiensi

7. INTRODUCTION

Internet of Think (IoT) a concept whereby an object has the ability to transfer data over the network without requiring human interaction with one human or human to computer [1]. IoT has evolved from the convergence of wireless technologies, micro-electromechanical systems (MEMS), and the Internet. "Things" on the Internet of Things can be defined as subjects eg people with heart implant monitors, animal farms with biochip transponders, a car that has built-in sensors to alert the driver when tire pressure is low. So far, IoT is most closely related to machine-to-machine (M2M) communications in manufacturing and electricity, oil and gas. Products built with M2M communication capabilities are often called smart or "smart" systems. For example that is smart cable, smart meter, smart grid sensor, smart parking.

Ruko Shopping Complex is one of the shopping malls in the city, but the shopping center is sometimes not provide adequate information about the type of business and parking area area both model and position.

Business center information on a metropolitan city is important to new customers but no less important is the parking space information available at the business center. This parking lot will certainly provide a cyclical for old customers and certainly for new customers to get available land information.

Smart Parking Mobile which is fully integrated and freely accessible to vehicle users in the area can certainly make it easier and help the users of four-wheeled vehicles to know where they are possible to park their vehicles in the area shopping. In addition, with the information system someone is facilitated to do the planning based on the parking information at the destination.