

ABSTRACT

BEC is an electronic shopping mall in Bandung that crowded. BEC will be much more crowded when holidays and weekends. One result of the many visitors who come to the BEC is the parking lot often almost full that make the visitor who want to park their car find difficulty in searching empty space.

According to the results of the interviews from the park management the average time it takes car driver from the entrance to the parking lot ranged from 5 to 6 minutes during the weekday and at weekend the time is increasing greatly, about 9-13 minutes. Those problem actually can be prevented if the car driver knows where he/she should park his/her car.

There is already a parking system in BEC parking lot but the system cannot give sufficient information to the car driver about where the empty space. Due to the system flaw of this car driver have to look the empty space without knowing where is the empty space. That condition are wasting driver's time and gasoline.

This research will develop a system that can escalate drivers comfort in obtaining a parking lot and reducing the travel time from the entrance to the empty space. The system can find and show the driver an empty space int the parking lot by finding the closest empty space from the building entrance or the parking lot entrance depend the user choice and determine which space that can be occupied by the driver. With a system like this driver can instantly know the empty space without having to searching the empty space. The existence of such systems can be realized with automation where the condition of the empty space can be quickly uploaded into the system.

From the results of this research, we concluded that the functions of this proposed system is work normally as is supposed to be and the traveling time from the entrance to the empty space int the parking lot is reduced to an average of four minutes during weekday and an average seven minutes at the time weekends and holidays.

Keywords: Traveling Time, Empty Space Searching, Automation, Efficient