



## Mid Term Exam – Digital Literacy

Name : Yoga Perwira Ari Nugraha  
NIK : 023201905010  
Study : MM Tech 2019, 2<sup>nd</sup> batch  
President University

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# **TECHNOLOGY MODEL FOR PARKING LOT MANAGEMENT INFORMATION SYSTEM**

## **ABSTRACT**

The increasing number of vehicles in the present has brought many problems, in this case the availability of parking lots. It can be said that the comparison of the number of vehicles that go down the road with the number of available parking lots is not directly proportional, consequently many riders either cars or motorcycles that find obstacles when looking for availability of places in the parking lot. Due to this situation, there is a technology model that could help to face the problem namely Automated Parking Lot Management System or in the other word it called with smart parking system. This system is fully functional and digitally controlled parking lot management system that is implemented with the use and integration, as well as it could manage the parking spaces available in the lot with monitoring and various sensor systems. The smart parking system is considered beneficial for the car park operator. The information gathered via the implementation of the Smart Parking System can be exploited to predict future parking patterns. In terms of environment conservation, the level of pollution can be reduced by decreasing vehicle emission in the air, can be attributed to the fact that vehicle travel is reduced. As fuel consumption is directly related to vehicle miles travelled it will be reduces as well. The system is made more efficient as vehicle travel time and search time are significantly reduced due to the information provided by the smart parking system. With the information provided, drivers are able to avoid car park that are fully occupied and locate vacant parking spaces with ease elsewhere. Most importantly, traffic congestion can be reduced and all this would eventually lead to convenience for the patrons. The purpose of literature review is to analyze about the development of technology smart parking system.

*Keywords:* Parking lot, Smart Parking system, Technology

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