

**SYSTEMATIC APPROACH AND ITS POSITIVE IMPACTS ON  
DEVELOPING EASY INTERACTIVE AUTOMATED SMART CAR  
PARKING SYSTEM IN SRI LANKA**

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Sri Lanka is one of the Developing Countries where the adaptation of technology is lack in its view and the contribution of the per capita income is compulsory to promote the country from the developing to developed status. Therefore, each of the citizens has the responsibilities to make sure their contribution within the time frame with the support of limited available resources. Because of the lack of land availability for parking sites in Sri Lanka, commercial purposes are stagnated in the circle where time saving and advance reservation of parking are the only solution in an efficient way. Therefore, there is a need to understand the impacts of implementing new technologies and parking sites are essentially focused at this study. And also, data were analyzed through the SPSS in order to gain the mean value and relationships.

Results revealed that the approaches of image processing, sensor applications, GPS, IOT, mobile app, web app and payment transactions were welcomed by the car owners and parking administrators where payment transaction through the SMS was known by most of the respondents (>80%). Based on those, impacts of implementing Easy Interactive Automated Smart Car Parking System was clearly understood by the systematic approaches of the developed design. However, there was a positive significant relationship was gained among the variables as using the low cost sensors, real time data and applications allow the user to monitor the parking spots where the mean value was 4.32. This can be used to reduce the traffic jam (4.08) and the pollution (4.52) too. Therefore, it is expected that the commercial activities can be succeeded without delaying and stagnating towards the economic development. Designing and implementing can be succeeded with the support of the users in the urban areas too.

**Keywords:** *Easy Interactive Automated Smart Car Parking System, impacts, nation development, parking slots*