The importance of parking should not be over-looked especially in land scarce Singapore where the population of car is ever increasing. Increasing car population together with rising land costs, more intensive and competitive development and higher deficiency charges present a new challenge to the developers in the provision of parking spaces. Mechanical car parking systems which used to be unpopular may prove to be the solution for future parking provision. The aim of this study is to gain a better understanding of mechanical car parking systems in order to encourage a higher level of application of mechanical car parking systems in Singapore.

This study adopts a combination of both quantitative and qualitative research methodologies. The quantitative analysis was based on questionnaire survey results and interview findings from the developers, architects, mechanical car park specialists, car park managers and quantity surveyors. Secondary data was also collected from the respective authorities. The qualitative analysis was based on the case study where an in-depth study on the application of mechanical car parking systems has been undertaken.

The results have shown that the level of application of mechanical car parking system in Singapore is low, despite the fact that it has been twenty years since its first implementation in 1982. This study has given an in-depth understanding of the mechanical car parks in terms of its merits and demerits. Recommendations have also been put forward with the hope that a higher level of application of mechanical car parks will be encouraged in the future.