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College of
Built Environment

Poster Book

IIIDBEE X 2023
20 JANUARY 2023
*International Invention, Innovation & Design Exposition
for Built Environment and Engineering 2023*

**College of Built Environment
UiTM Puncak Alam**
20 January 2023 | Friday

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POTENTIAL LOCATION FOR INSTALLATION OF ANPR BY USING GIS-AHP

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College of
Built
Environment
(CBE)

INTRODUCTION

This study is to determine potential installation of ANPR using AHP and GIS in Kuala Lumpur. To ensure that the installation can be done in KL, some of study has been done and the criteria from the previous study has been propose and validate by the experts and analyse it by using weighted overlay analysis. So far, the results shows the criteria rated by the experts where there are agree that using existing poles with interval 500m apart. From the validation also the results of suitable or non suitable area to establish ANPR Networks

ISSUES/ PROBLEM STATEMENT

The study purposes are to Determining Potential Installation of ANPR By Using Analytical Hierarchy Process (AHP) And GIS We planned to carry out any potential area or point in Kuala Lumpur to install APNR with multiple purposes such as traffic monitoring, crime monitoring, toll automation or congested fee charge and more in Kuala Lumpur. The function of ANPR is to automatically detect plate numbers in real time and can be refer to the database of agencies and the law enforcement can be done. With this kind of actions, it will control the behavior of the people who against the law enforcement.

OBJECTIVES

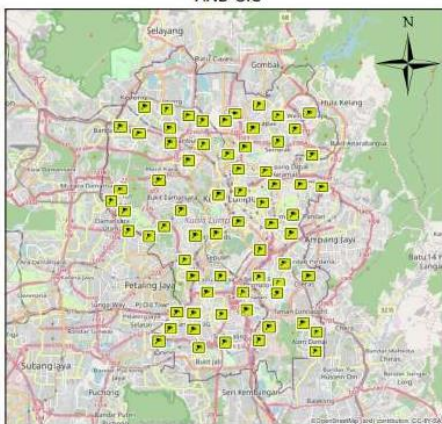
To determine the criteria of the installation of ANPR

To determine potential area for ANPR installation

To create a map for potential area for ANPR installation

FINDINGS

DETERMINING POTENTIAL INSTALLATION OF ANPR USING ANALYTICAL HIERARCHY PROCESS (AHP) AND GIS

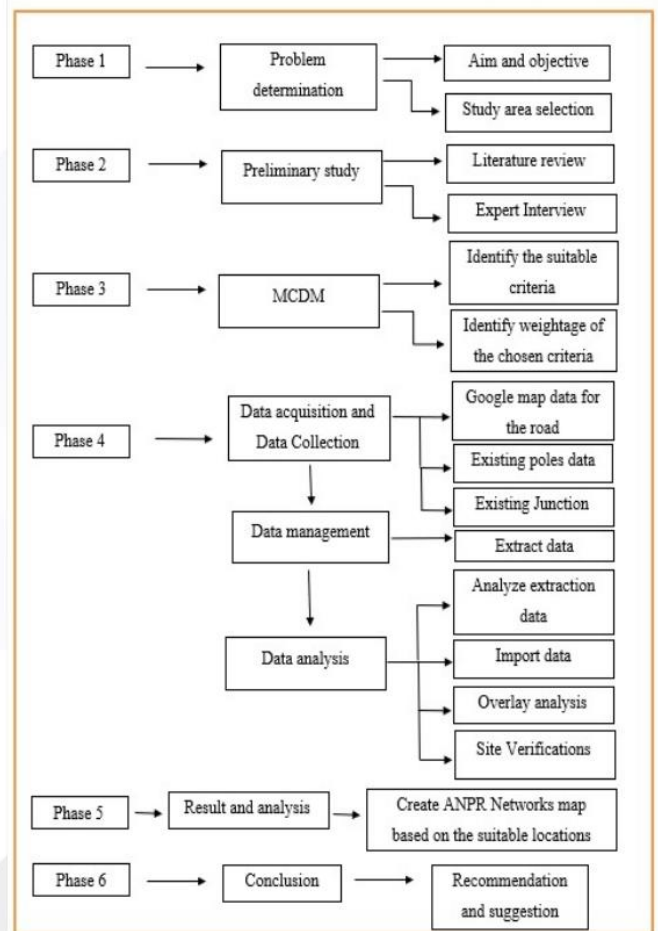


Legend
■ ANPR Networks
□ Kuala Lumpur Boundary

Potential locations for ANPR installation were selected as they have the highest suitability index after weighted overlay analysis was conducted.

The potential locations had been verified. They are all either located at junction or existing pole for easier installation.

METHODOLOGY



CONCLUSION

As a conclusion, the ANPR Network for this study has been recognised and has been visualised in point in form of map above. By creating this ANPR Network with hope that some of the issue that occur in Kuala Lumpur such Sosial which is crime, traffic monitoring for fast response by the authorities. Then, ANPR camera can be use as toll automation or creating congested zones to reduce amount of vehicle in the zone.

NOVELTY

The implementation of GIS-AHP in finding potential area of ANPR installation could be the novelty of this study.

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