

**DEPARTMENT OF BUILT ENVIRONMENT STUDIES
AND TECHNOLOGY,
COLLEGE OF BUILT ENVIRONMENT,
UNIVERSITI TEKNOLOGI MARA, PERAK BRANCH,
32610, SERI ISKANDAR,
PERAK**

**CHALLENGES IMPLEMENTING ARTIFICIAL
INTELLIGENCE (AI) IN MALAYSIA
CONSTRUCTION INDUSTRY**

Dissertation submitted in partial fulfilment
of the requirement for the award of
Bachelor of Quantity Surveying (Honours)

**PREPARED BY: NIK NUR AMALIN AISYAH
BINTI SAPRI (2022864274)
SEMESTER: MARCH 2024 – AUGUST 2024**

DECLARATION

"I declare that this dissertation is the result of my own research and that all sources are acknowledged in the references"

Student's Signature :

Student's Name : NIK NUR AMALIN AISYAH BINTI SAPRI

Date : 26.4.2024

ABSTRACT

Artificial intelligence or famously known as AI define as the simulation of human intelligence in devices that have been designed to behave and think like humans. AI is capable to carry out tasks usually linked with intelligent beings, just like a digital computer or computer-controlled robot. The evolvement of technology gives a big impact in construction industry as it enhances construction industry to have a faster construction period and organized management which gives a lot of benefits to people involved in the construction industry. Developed countries on the Europe mostly already implement AI in their construction industry which continuously develop rapidly as the years goes by. However, Malaysia on the other hand does not grow alongside the globalization era and have not fully implemented AI in any industry which shows the lack of effort in adopting AI. Therefore, this study was conducted which is titled Challenges Implementing Artificial Intelligence (AI) in Malaysia Construction Industry. The aim of this study is to provide an insight about AI adoption in Malaysian construction industry. Hence, the study is designed by conducting literature review to obtain the opinions and knowledge regarding AI in Malaysia construction industry. The study adds quantitative method as for data analysis by conducting questionnaire survey in Selangor and Kuala Lumpur collected from construction professional which are assistant supervisor, project executive, construction manager, site coordinator, site supervisor, project manager, clerk of work and quantity surveyor. The number of questionnaires that are successfully collected are 114 respondents. The data obtained was evaluated with Statistical Package for the Social Sciences (SPSS) which then being ranked from highest to lowest mean. From the study, the results shows that it is proven that challenges implementing AI are the main barriers for Malaysia construction industry to fully adopt it as the industry still have many loopholes that can be improve in the future. Not only that, the significance of this study is to increase the knowledge regarding how AI works in construction which can be a powerful technology in Malaysia construction Industry. Lastly, I hope that the knowledge of AI from this study will be beneficial to future researcher to explore deeper in the next research.

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