

ABSTRACT

Title: Intelligent Malaysia Occupational Safety, Security and Environmental Drone (iMOSSSED-1) As a New Safety Inspection Tools at Construction Site in Malaysia

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Abstract:

The safety management in the construction sector is still lagging in the involvement of the technology. The new drone application was proposed as the new inspection tool for a small-scale aerial drone that gives advantages to Environmental, Health and Safety (EHS) practitioners at the construction site. A fundamental research has been conducted to study the Perception of Drone Application and Practicality among Environmental, Health and Safety Practitioners at Building Construction Sites in Malaysia. A self-administered questionnaire was distributed to the safety practitioners in Malaysia through an online survey using Google form. A relationship between the attitudes of the users towards the drone and the practicality of the drone was analysed using Multi Linear Regression (MLR). From the result, the respondents show significant positive attitudes towards the practicality of the drone system for the inspection of safety, security, fire, and environmental monitoring. There is generally a significantly good attitude of the future users towards the drone usage in the construction industry and the respondents show a good practicality expectation and these also being supported by the previous studies.

Keywords - Construction, Drone, Malaysia, Environmental, Health and Safety (EHS), Multi Linear Regression (MLR)