

# MIIEx2017

Melaka  
International  
Intellectual  
Exposition

## PROGRAMME ABSTRACT

AUTISM

INNOVATION

DESIGN

INVENTION

**"Bridging Gaps with Creativity for Future Sustainability"**

# MIIEX2017



“Bridging the Gaps with Creativity for Future Sustainability”

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## INTERCEPTION LOSS SIMPLE MODEL

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### Abstract

Canopy interception is the phenomena where the water does not reach the ground. In this study, a model was developed to calculate the amount of interception loss from forest canopy. Two sources of interception were considered in order to develop the model. The physical interception was determined by the function of annual interception obtained from interception with high resolution. The calculated interception with the temporal resolution effect was determined by the slope function. Validation of the model was made to several locations of forests across the world. The results show that interception loss can be estimated by taking account the effects of depth of storage capacity into the model. The model can be applied to several locations in Malaysia and across the world. The finding of this study also may used to improve the understanding of forest interception model concepts.

## SAJADAH FURQAAN (SF)

Noorzalya Binti Mokhtar, Nur Hani Najihah Binti Mohamad Isa, Nur Roselinda Lily Binti Mohd Hashim, Farra Adlena Binti Abd Majid, Zarina Begum binti Muna Kameelah binti Sauid, Nurul Ain binti Mustakim, Yuhanza binti Othman

UITM KAMPUS BANDARAYA MELAKA

### Abstrak

Sajadah Furqaan or SF is suitable for all age. It comes in small and large size to accommodate kids and adults. This is a 2 in 1 product which is the combination of small carrier that functions as a table that made it easy for user to use it to read Quran after prayer. Besides, the table have the functionality to emit adzan sound and display adzan time (Imsak, Subuh, Syuruk, Dhuha, Zuhur, Asar, Maghrib and Isya') and it also can count the number of sujud. This added functions of sujud's counting is to help user to become aware of which rak'ah are they at; especially for older people. The sajadah uses velvet material and it can be separated from the carrier for the cleaning or traveling purpose. The usage of box made it easy to carry anywhere because it is light in weight and also convenient for storage. Method of using this product is put the carrier on the floor and then pulls the Sejadah out. To turn on the sound and prayer time, we need to put battery and set the time of adzan. For the sujud counting, the sajadah are equipped with sensor on it to detect number of sujud. If we put our forehead on the sajadah, it can count the number of sujud that we have done, so that people will not forget they are in what rakat (rak'ah). This product is ergonomic because it can ease the consumer and the product is also different from the readymade sajadah.