

AIP Conference Proceedings, Open Access, Volume 2579, Issue 1, 6 October 2023, Article number 020018, 2nd International Symposium on Engineering and Technology, ISETech 2021, Virtual, Online, 5 October 2021, Code 193320

Footfall Shopper Traffic Counter and Information System

Abstract

Throughout early 2020 until now the covid 19 pandemic has shown no sign of ending. It has been impactful to most businesses including retailers and malls. Many of them have been forced to shut due to being unable to adapt with the situation and the Covid cases are increasing day by day which leads to the announcement of Movement Control Order (MCO) by the government. Now some places have been allowed to reopen the retailers and malls with the condition that they must follow Covid control measures. As retailers and malls owners grapple with the repercussions of the covid 19 pandemic, many are accelerating their plans and expanding their thinking to find ways to keep malls relevant in the new normal. Here, we proposed to create a footfall shopper traffic count and information system. This system is to measure the flow of traffic at all mall entrances and anchor stores. This system can filter the people who have a higher chance of being infected with coronavirus by detecting human temperature, record the number of shoppers entering and at the same time can limit the shopper number entered daily. Thus, it is to fulfilled the aim of the social distancing and comply with the guideline from the Ministry of Health of Malaysia. This footfall traffic count and information system has been tested several times to ensure that all the components (temperature sensor, IR sensor, lcd, led, etc.) and system flow work correctly. Moreover, this system can still be evolving in the future by adding more features or applying new component innovation for better and faster performance. © 2023 American Institute of Physics Inc.. All rights reserved.

Keywords

Bi-directional Counter; Covid Control Measures; Keywords— Visitor Counter; People Counter