A Surveillance System Controlling Covid-19 in Office Environments

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Abstract

COVID 19 is one of the pandemic diseases that has hit the world including Sri Lanka. He has a virus that became the target of bids to stop its spread. Including the implementation of health protocols, to provide information about the spread of the virus emergency response, detection services for suspicious persons infected with the virus, and programs to contain the spread of the virus ensuring that the whole of Sri Lanka gets vaccinated. Here, the research focuses on the minimal spread of the face mask in the office environment an identification system that uses a deep learning model that prioritizes object recognition for the identification of employees who wear a face mask and detects social distancing and crowd gathering, if any if there is a violation, it will inform via a voice notification. Loss of Smell after the next component. One person can use one disposable card to check the smell of sniffing. Each disposable card has QR codes, and all QR codes are encrypted by adding data. The user scans the QR code on their ticket and then scratches off and smelled the smelling area and selected the corresponding scent on the disposable card. Employee company attendance is a proposed automated attendance system using facial recognition. Because it requires minimal human influence and offers a high level of accuracy and marking employee attendance and employee body temperature measurement, facial recognition will appear to be a practical option. The aim of this system is to provide a high level of protection. Automated Attendance systems that detect and recognize have been found to be safe, fast, and time-consuming savings. This technique can also be used to identify an unknown person.

Keywords

Coronavirus, Covid 19,Deep Learning, Health Protocols