

IoT based Auto Temperature Detection and Social Distancing Monitoring

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Abstract: In today's pandemic situation of COVID-19 WHO suggest 3 norms for avoiding COVID-19 infection such as Wear a Mask, Maintain 6 feet distance from other person and use hand sanitizer frequently as these are proven to be the only solution. As we know, to stop the spread of corona virus we need to avoid rush, maintain social distance and people with high fever symptoms are not allowed at public places. In this paper, we introduced cost-effective system based on IOT that help organizations respect the COVID-19 safety rules and guidelines in order to reduce the disease spread is presented. It seems very difficult to measure temperature manually of every person so we are presenting an idea of auto temperature detection using Arduino microcontroller board along with temperature sensor. We decided to use these devices due to their small size and affordability. Temperature sensing & social distancing check subsystem relies on Arduino using sensors. The device will give alert (using buzzer) to the person if someone is not following social distancing. If the Temperature is above threshold limit we not allow to enter the person. The method is reasonably accurate and can be very useful in maintaining social distancing and Auto Temperature Detection.

Keywords: Temperature Detection

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