

Title: Internet of Things based Low-cost Health Screening and Mask Recognition system

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Abstract: The world is facing a pandemic now. Face mask can reduce the spread of corona virus and help people to save many lives. Many people are not serious about wearing face mask. This work results a system that can detect face mask of a person with CNN. The system can identify anyone without face mask. An IoT based module is integrated with the system to monitor people's temperature, blood pulse and oxygen level. Which can collect all the sensor data and send the data to a cloud database. From the cloud server the mask condition and health condition can be monitored. The collected data can also be used for future analysis. The proposed low-cost system worked properly with a good success rate

Keywords: Face-mask detection, IoT, E-health, Health Screening, Deep Learning (DL), Machine Learning (ML), Convolutional Neural Network (CNN)

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