Face Mask Detection

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1 Introduction

With the global outbreak of COVID-19, it's even more important to have some policy to mitigate risk. For public safety and health, people are recommended to wear face masks and coverings to control the spread of the COVID-19.

In hospitals and various COVID-19 testing places. If only people wearing masks are allowed to enter, the risk of infection for doctors and staff can be reduced. However, if a potential COVID-19 infected person who is not wearing a mask suddenly appears, there is a high risk of infection in face-to-face communication.

At many intersections, pedestrians will gather briefly while waiting for traffic lights. At this time, the risk of COVID-19 spreading among the population is high. But it is impossible to hire a person to stay at the intersection and remind pedestrians to wear masks.

Similarly, requiring Uber drivers and passengers to wear masks at all times can also effectively reduce the spread of the COVID-19. However, it is impossible to supervise the wearing of masks on moving vehicles in real time.

There are many application scenarios such as this. If it is all supervised by manpower, the investment cost is high, and the health risks of the staff are also high.

Therefore, the need for artificial intelligence to determine the wearing of masks came into being. The main idea of this project is to construct a classifier to judge whether the photo cropped from the face detector is wearing a mask.

2 Related/Similar work

3 Dataset