

Learn about convolutional neural networks and apply them to build a face mask detection program.

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Abstract: During the pandemic, monitoring and identifying people wearing masks became an important requirement for public safety. This topic focuses on researching Convolutional Neural Networks (CNN) to develop an image-based system for recognizing people wearing masks. By applying theory and experimentation, the topic aims to solve the problem of accurately determining the mask-wearing status of individuals in real-world environments. The expected result is to provide an effective tool to support public health safety management.

Keywords: Convolutional neural network, face mask detection, community surveillance system