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**Department of Computer Science and Engineering**

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**Mask Detection**

**Digital image processing**

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**Introduction:**

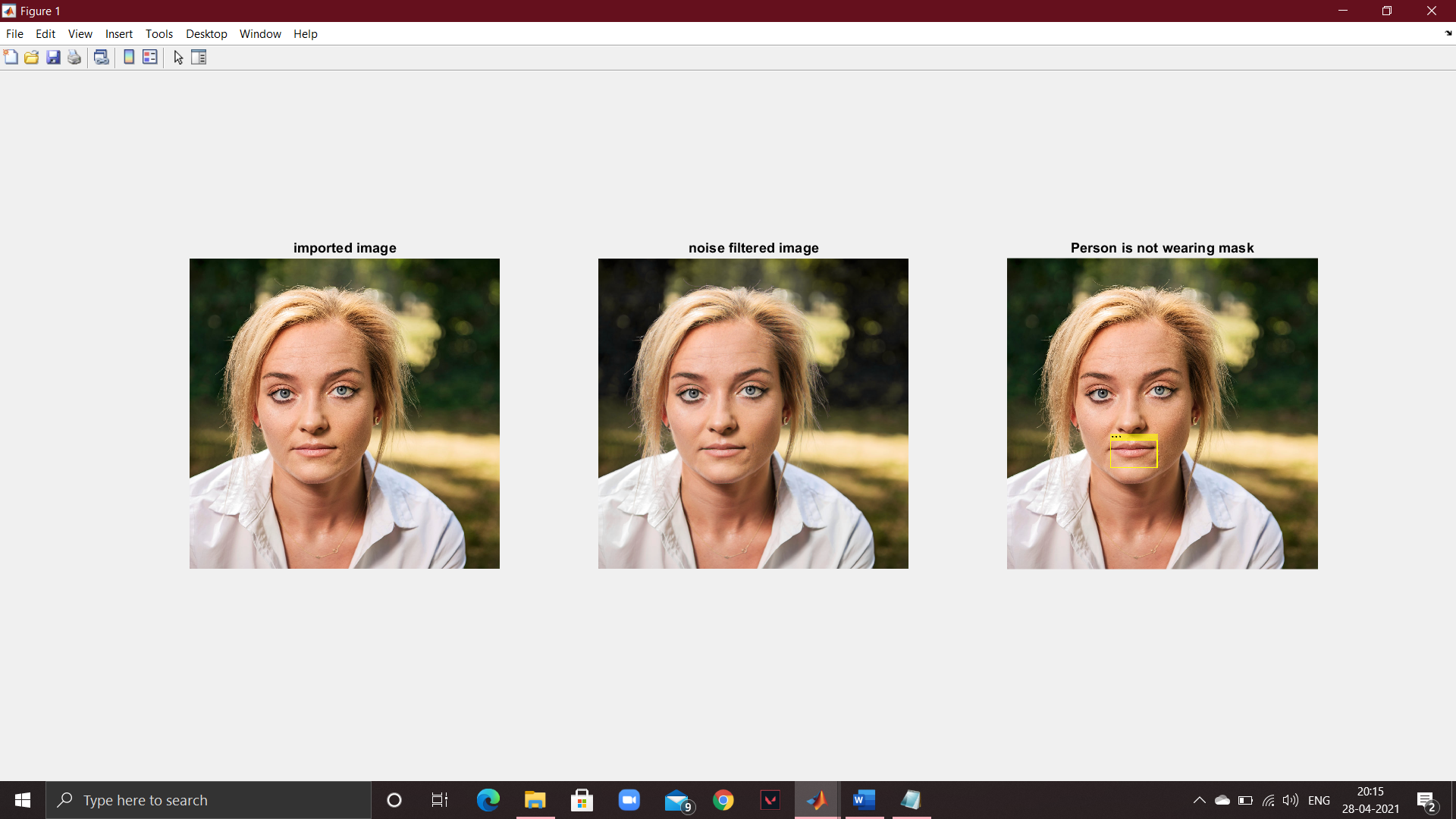
As of todays scenario of pandemic the covid has proven very fatal virus so we have to take safety precaution so we don’t get the virus the government has also giver strict orders to wear a mask and also fining the person who is not wearing the mask at public places.

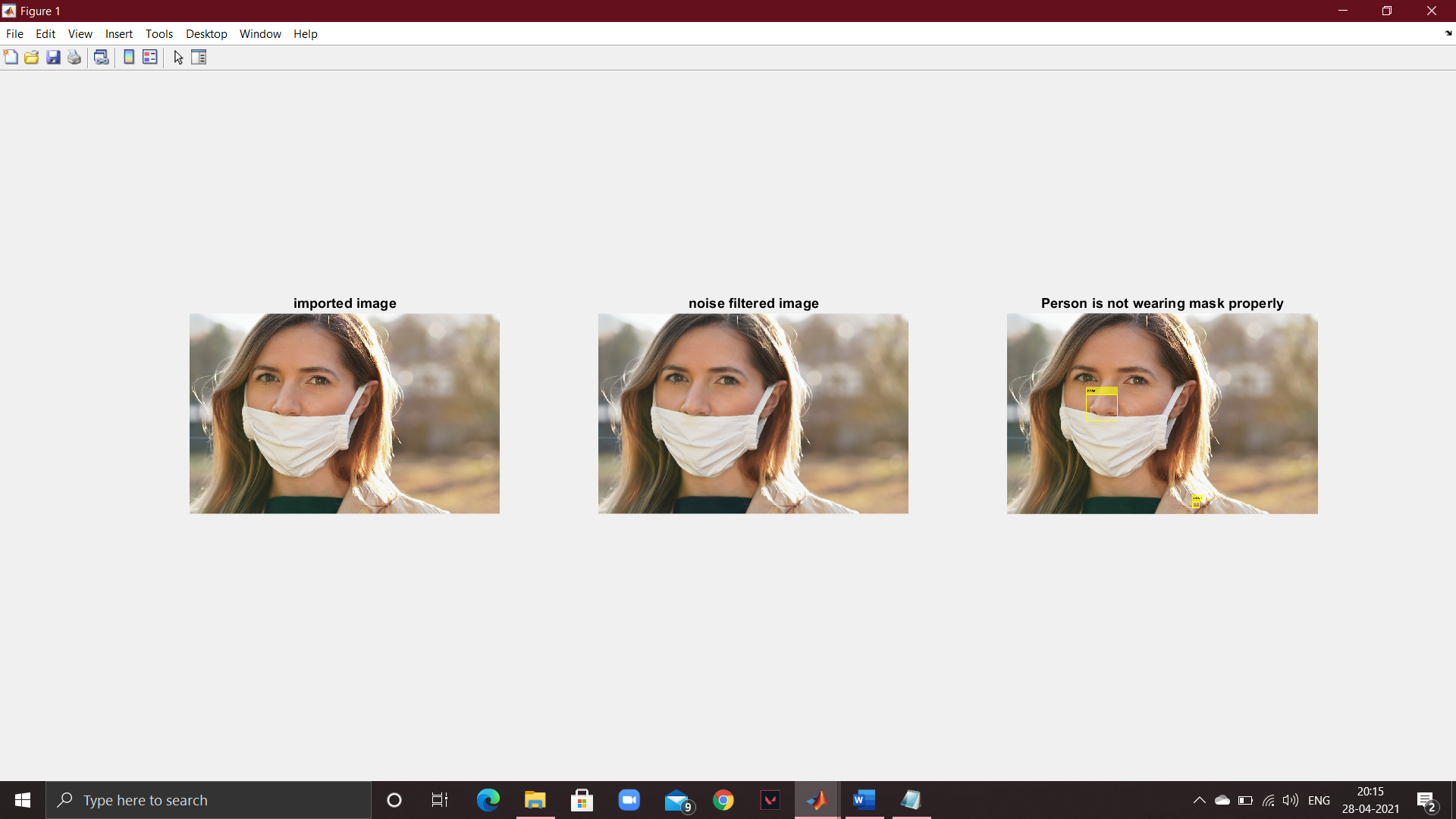
So I have come up with a application of detecting weather a person is wearing a mask or not by the pictures taken by the cctv cameras.

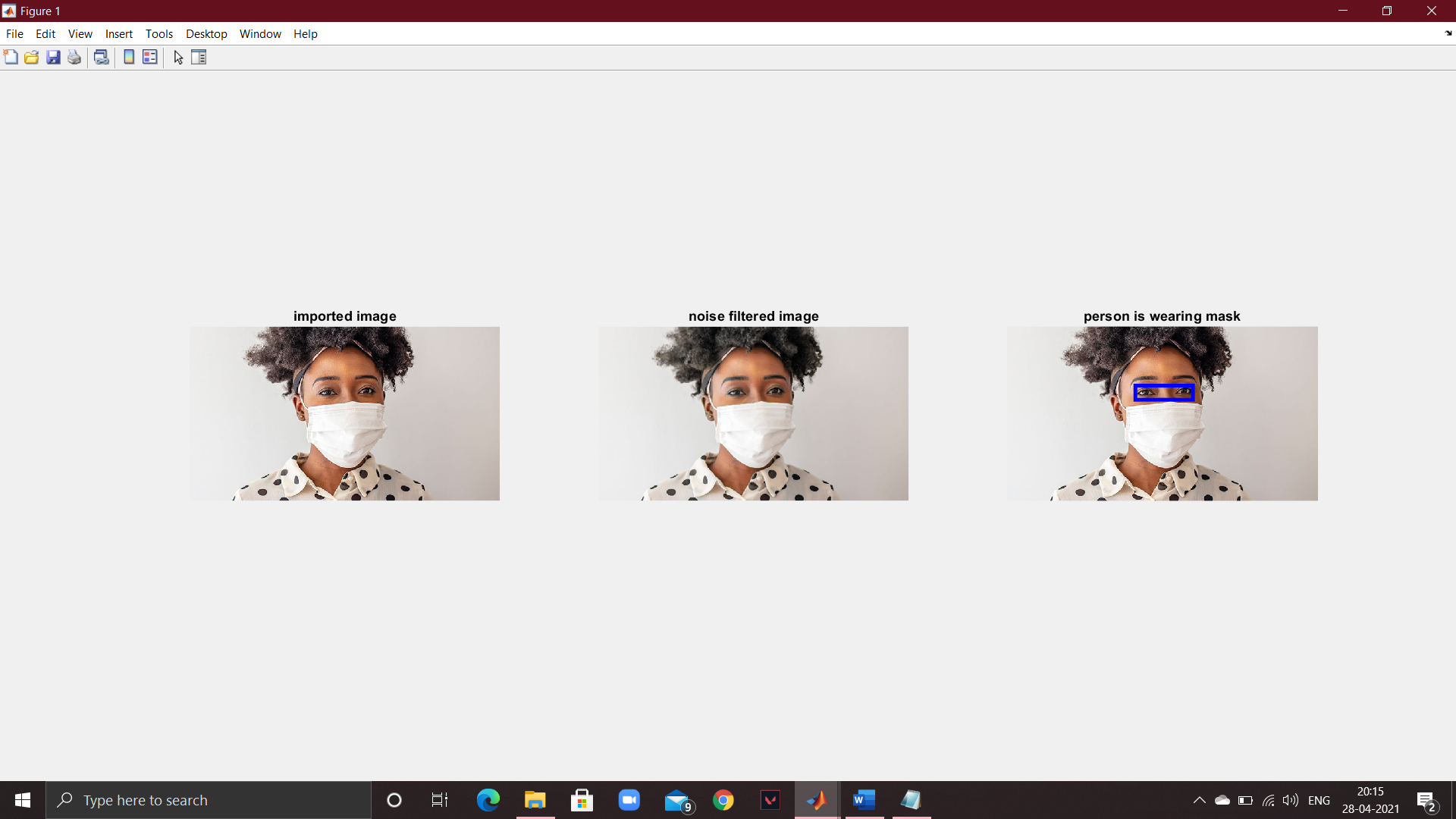
**Code implementation:**

So I have used the matlab as environment and I have used viola jones algorithm to detect the mouth, nose, eyes. So first I have used a noise filter to filter the noise from original image and then I have written the code for detection of nose, mouth, eyes. So it goes like first if the mouth is detected then the person is not wearing mask, and if the person mouth is not detected and nose I detected then the person is not wearing the mask properly , and if the person mouth and nose are not detected and only eyes are detected then the person is wearing the mask properly.

**Conclusion:**

So application is successful in detecting of wear of mask, hear are the some of output. 





**Reference:**

viola jones research paper

https://www.youtube.com/redirect?event=video\_description&redir\_token=QUFFLUhqbTljSWhHeU1rbHYxdEtSeEhfaXZhZjFKc25Bd3xBQ3Jtc0tsMWZkZEp3MDBfZ2ZwN01xVVI2cFJmVVNDSjJiSloxMENuV3gzNFBzelF4dk1XTDBGSTBzR2RRY3BUeGd4VWpxLUVGRHltQWM2T0ljdEVFUmdIY1dOWC1WMXVySVR6UkxXbzFlLVZzWHhMUWRfc3NOaw&q=https%3A%2F%2Fwww.cs.cmu.edu%2F%7Eefros%2Fcourses%2FLBMV07%2FPapers%2Fviola-cvpr-01.pdf