

IET SMP 2021-Computer Vision



Welcome Guys!!!

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Topics to be covered today (Session 7)

The main topics which we will be looking in depth today are:

- Face Detection using OpenCV Caffe DNN
- MTCNN

Face Detection with OpenCV Caffe based DNN

What is Caffe?

- Caffe is a deep learning framework made with expression, speed, and modularity in mind.
- Caffe is being used in academic research projects, startup prototypes, and even large-scale industrial applications in vision, speech, and multimedia.
- Caffe framework is more suitable for production edge deployment.

Face Detection with Caffe

- OpenCV provides inbuilt support to perform Face Detection using a Caffe Based DNN included in the official release of OpenCV.
- When using OpenCV's deep neural network module with Caffe models, you'll need two sets of files:
 - The .prototxt file(s) which define the model architecture (i.e., the layers themselves)
 - The .caffemodel file which contains the weights for the actual layers

Let's head over to
Jupyter!

MTCNN