

CSE4019 - Image Processing

Project Review 1

18BCE0715
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Abstract

Image re-identification with multiple cameras has been a major area of interest in the past 5 years. A network of cameras are situated at different angles and more or less monitor the same geographical area. In such a case, it is of great functional interest to identify/label the same object/person in from all different cameras.

The best way to do object detection with images is via a Convolutional Neural Networks. Convolutional Neural Networks work take the approach of machine learning to learn the best convolutions that highlight the correct features to improve image identification.

Objects, in this case people have defining features that can be highlighted with the correct mask/filter/kernal. By using convolutional neural networks these can be learned. Convolution neural networks' efficiency are highly dependent on architecture.