The Literature Review

DMML-2

Traffic Signposts Recognition System

- Identifying and classifying traffic signposts is a challenging job.
- CNN edge over other network.
- CNN has earned noteworthiness for its proved advancements over other networks.
- CNN has efficient learning skills, with many excellent features such as the translation invariance and local links.

General traffic signposts system:

- Detection of the signposts.
- Classification of the detected signposts.

Dataset:

- Kaggle repository (German Traffic Signposts Recognition Benchmark)

Related Work

- Reviewed total of 21 papers
- All papers are related traffic signposts recognition
- GTSRB – German Traffic Signposts Recognition Benchmark
- Artificial Neural Network
- Convolutional Neural Network
- Transfer learning
- InceptionV3
- VGG16 and VGG19
- Gradient Decent, Adam optimizer, SoftMax Function, ReLU activation function and techniques like Max-pooling, Blurring

Why we selected VGG16, VGG19 and InceptionV3

- Because these models were the winner of “The ImageNet Challenge Competition” in 2015.
- And, they have better accuracy and less computational time.

Now, Vikas will explain about methodology