review6

October 18, 2019

1 Summary

This paper chosen MNIST dataset with 5000 training data and 10000 testing data. They implemented scattering net with known invariants and pre-trained deep neural network VGG19. Besides, with visualizing these features using classification of traditional supervised learning method T-distributed neighbor embedding for dimension reduction. Besides, they used traditional supervised learning method linear regression with stochastic gradient descent for achive classification.

2 Strength

This paper describes their motivation simply and comprehensively, and also include graphs to show the result. Besides, they satistied all the request given in the project.

3 Weakness

They only consider one type classification method, so there is no comparision of different methods.

4 Evaluation

The claims of this report is well organized and is clearly written. And the experiments well thought out and convicing.

5 Overall rating

After carefully reading the paper and checking the result, I will assign 4 point to this paper.