Comment 14

In paper 14, the project is based on MNIST dataset, which contains 60,000 training images and 10,000 testing images of handwritten digits. The author is trying to improve the performance of digits recognition. They provided multiple combination of algorithms, while the ScatNet+small CNN reached the best accuracy.

The author first extracted the features of the dataset using ResNet-18, then trained a SVM to classify the extracted features to predict the labels of the test data; but this method only reached an accuracy of 94.76%. Eventually they provided two more methods： ScatNet+SVM and ScatNet+small CNN. The latter one have the best performance according to the article.

Strength: The use of small CNN as classifier is reasonable, yielding promising result while using much less time.The visualization is good.

Weakness: The weakness of this paper is that since the ScatNet does not perform well in feature extraction, the accuracy can still be improved if they resort to alternatives rather than ScatNet.

Evaluation on quality of writing: 4.

Evaluation on presentation: 4.

Evaluation on creativity: 3.

Confidence on your assessment: 3.