• Summary of the report.

In this report, the authors use scattering net with known invariants and VGG19 to do feature extraction on MNIST dataset. They visualize features by using t-SNE method and use logistic regression to do image classification.

• Describe the strengths of the report.

They visualize features and achieve the image classification.

• Describe the weaknesses of the report.

The content of report seems to be simple.

• Evaluation on Clarity and quality of writing (1-5): 3

Figure 2 and Figure 3 may need coordinate annotation, and the color is too light.

The principle of Scattering net may be too long.

• Evaluation on Technical Quality (1-5): 3

The authors can try other traditional supervised learning methods and compared to the result of logistic regression. The table 1 is too simple.

• Overall rating: 3

• Confidence on your assessment: 3