

Send your submission to okatani@vision.is.tohoku.ac.jp

Assignments I

[Colab notebook for loading fewer data](#)

- Mission: Analyze how the structure of a network affects its prediction accuracy and how it depends on the size of training data
- Minimum requirements:
 - Create at least 10 networks (models) that have different structures, e.g., number of layers, layer type (conv/fc), number of units, channels, filter size, etc.
 - Train each model on 1,000 and **60,000** samples until convergence, respectively
 - Test each model on 10,000 test samples to get mean prediction accuracy and create a table like the one below
 - Observe your results and explain what you have found
 - Don't forget to report the details of each model, e.g. the output of `print(net)`, and training method, e.g., `optim.SGD(net.parameters(), lr=0.001, momentum=0.9)`

Model	1000 samples	60,000 samples
1) 2FC_512	70.00%	92.00%
2) 3FC_128_128		
3) LeNet		
...		
10) *****		