# Deep Learning Study

## Seungmok Lee

2020.01.14

# Welcome

- My name is Seungmok Lee.
- This is first time for me to organize an academic meeting.
- My service to you.

# Participants

- Jaejin Choi
- Hanbum Kim
- Hobin Lee
- Byungchan Lee
- Byeongyoon Park
- Sungju Jo
- Seungmok Lee (Organizer)

# Schedule

- Every Tue. 15:00~17:00 (KST)
- Start from 2020.01.14.
- At room 141, build. 23, in SNU.
  - Remote access supported.

# Schedule

| Date | Summary | Plan |
|---|---|---|
| 14th Jan. | Orientation | Discuss about future plan. |
| 12th Jan. | Study ML | Survey Machine Learning, Deep Learning, Neural Network, their platform, language, performance and limit. Decide which one to use/focus on. |
| 28th Jan. | Practice ML | Practice simple ML ourselves. |
| Feb. ~ | Run Project | Apply ML/DL to our experimental data. Improve results using various ML techniques. Aim to make a draft result within March. |
| | | ※ Schedule can be modified as study goes on. |

# Study ML

- We have different background knowledge.
- So let's study Machine Learning individually, and share the knowledge next week!

# Study ML

- Keywords
  - A.I., Machine Learning, Deep Learning, Neural Network
  - Supervised Learning, Unsupervised Learning, Reinforcement Learning
  - Layer, Hidden layer, Convolution Layer, …
  - CNN, DNN, RNN, …
  - Pruning, Quantization, Low rank approximation, Recent NN architectures, …
  - Image recognition, MNIST, CIFAR 10
  - Application to video, audio, text, Go, Starcraft, Dota, …

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