

# **Introduction to AI602: Recent Advances in Deep Learning**

**Jinwoo Shin, KAIST AI and EE**

## Course Information

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- Goal: Cover a very partial subset of recent advances in deep learning
- Course homepage: [http://alinlab.kaist.ac.kr/ai602\\_2019.html](http://alinlab.kaist.ac.kr/ai602_2019.html)
  - Slides are made by students in Algorithmic Intelligence Laboratory
  - Reference papers will be uploaded for each class (we have no textbook)
- Office hours: Every Tuesday, 11am-1pm, N1-914
- Instructor: Jinwoo Shin (N1-914)
  - Associate professor, KAIST AI and EE
  - Email: [jinwoos@kaist.ac.kr](mailto:jinwoos@kaist.ac.kr)
- TAs: Younggyo Seo and Seunghyun Lee (N1-917)
  - 1<sup>st</sup> year MS students, KAIST AI
  - Emails: [seo0gyo@kaist.ac.kr](mailto:seo0gyo@kaist.ac.kr), [camusian@kaist.ac.kr](mailto:camusian@kaist.ac.kr)

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- Assignment: 2 paper summary + 1 presentation
  - Each student should choose two deep learning papers published at NIPS, ICML or ICLR, CVPR, ICCV, ECCV in last 3 years, where **the authors do not release their codes.**
  - I will help for deciding which papers to study (e.g., use the office hours to ask or send emails to me, including your generic interests and backgrounds)
  - **Once you choose papers, try implementing the algorithms on your own using TensorFlow or PyTorch, reproducing the authors' results (reported in their papers) and applying to other datasets**
  - Send the report on the first paper by Oct. 25<sup>th</sup> and the report on the second paper by Dec. 20<sup>th</sup> to TA. **You also have to send your source-code files with the reports.**
  - You have to present one of two papers at the end of this class.

## Course Information: Q&A

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- How much backgrounds do I need on deep learning?
  - This course is not an introductory course to deep learning
  - I will cover some backgrounds quickly, but not spend too much time
  - For example, I will not teach how to use TensorFlow or PyTorch
  - Very sorry, but if you worry about this, please drop the class and be a listener (not for credit).