3010 Artificial Intelligence: Assignment 3
Due: <u>5 pm</u>, Thursday, June 13, 2019

Must be submitted to the assignment drop box in front of the Information Science Administration Office. 情報事務室前のレポート箱に投函すること

Task

Read one (conference or journal) paper related to neural networks or deep learning (or on your research field where neural networks are used) published in 2014 or later, and summarize it. The following points must be clearly stated in the summary:

- **Motivation**: What is the problem that the paper is trying to resolve?

- **Method**: How do the authors tackle that problem?

- **Utility**: When and how the lesson learned from that paper useful?

Other requirements

- Format: single A4 paper (one or two sides)

- Language: English or Japanese

- Must indicate: paper title, author names, publication year, and conference (or journal) name

Some tips to find what to read

- Related conferences (most of the published papers are freely available on the web):

    - Machine learning/AI: NeurIPS (formerly NIPS), ICML, ICLR, AISTATS, AAAI, etc.
    - Natural language processing: ACL, NAACL, EMNLP, EACL, COLING, etc.
    - Computer vision/image processing: CVPR, ICCV, ECCV, etc.

    Other reasearch areas are also welcome: speech, robotics, cognitive science, etc.

- Avoid arXiv-<u>only</u> papers (but arXiv preprints of journal/conference publications are OK)

- You could start from a conference web page, or some literature repository page, e.g.,

    - NeurIPS Proceedings: `https://papers.nips.cc`
    - ACL Anthology `https://www.aclweb.org/anthology/` for natural language processing

- Search with some keywords of your interest (e.g., "dropout") on those sites or repositories, or on Google Scholar.

- Google Scholar is also useful to find detailed information about papers; e.g., "Citation counts" suggest how influential individual papers are.