

Assignment #4

- Identify a seminal work (e.g. > 1000 citations, not a survey paper) from a top AI venue (e.g. NeurIPS, ICLR, ICML, CVPR, ICCV, ECCV, ACL, EMNLP); the paper should be something interesting to you and related to this module: LN6-9.
- Read through the paper in detail, bearing in your mind all the related topics that we discuss in our lectures.
- Prepare a short review (no more than 2 pages including everything) to describe your opinions on that paper.
- Submission Deadline: **Oct 28, 2024** (Mon). Please submit your report to Moodle. Only softcopy in PDF format will be accepted.
- The assignment should be done by a group of 2 students. For each group, only one joint report is required. How to form a team is up to you.

Assignment #4

- The report should be at most 2 pages, where you can use at most 1 page for your writing and at most 1 page to list the results (if any) and the reference. The writing part of the report should have the following components:
 - Your names & student number;
 - The paper you are reviewing;
 - Your review:
 - > What is this paper about? Why is it significant?
 - > Is it still meaning in the deep learning era?
 - > Make clear what are yours and what are adapted from others;
 - > Declare any usage of Generative AI such as chatGPT.
 - Any implementation & results (optional): state clearly whether it is your implementation or based on some open source;
 - Reference: List out all the references. In the report, there should have corresponding citing marks.

Suggested Report format: use WORD or latex template at <https://github.com/cvpr-org/author-kit/releases>



Assignment #4 Grading

- **0:** You did not submit the report. Or, a lot of content in your report is copied from somewhere.
- **50~69:** You have submitted the report and your report satisfies the basic requirements.
- **70~84:** In addition to above, include the factors: implementing / testing the method, writing (clarity, organization), ...
- **85~100:** In addition to above, include the factors: compare with other methods, propose something new, ...

Examples of seminal papers

- Mastering the game of Go with deep neural networks and tree search, Nature 2016.
- Mastering the game of Go without human knowledge, Nature 2017.
- wav2vec 2.0: A Framework for Self-Supervised Learning of Speech Representations, NIPS 2020.
- Deep Neural Networks are Easily Fooled: High Confidence Predictions for Unrecognizable Images, CVPR 2015.
- Flamingo: a Visual Language Model for Few-Shot Learning, NIPS 2022.



Cheating and plagiarism

- **When you submit a report you sign that your work is your own, and not someone else's**
- **Generative AI technologies can be used with appropriate attribution**
- **If we find unexplained similarities between assignments, there are consequences**
 - These range from disallowing a question in an assignment to failing the unit
 - If you are found guilty of plagiarism or cheating, a report to that effect is entered into your permanent academic record