



Deep Learning - MAI

Theoretical Presentation guidelines

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In a nutshell

- ❖ You must read, explain and criticize a recent deep learning paper
 - Nothing to deliver to the lecturer
- ❖ You must prepare a 10-15 min presentation
 - At 15 min you will be STOPPED. Leave yourself some margin.
- ❖ Questions from lecturer and fellow students will follow (5 min)

Which papers?

- ❖ Peer-reviewed, highly cited conferences/journals
- ❖ Last 3 years max
 - NeurIPS
 - <https://proceedings.neurips.cc/paper/2020>
 - <https://proceedings.neurips.cc/paper/2021>
 - ICLR
 - https://iclr.cc/virtual_2020/papers.html
 - <https://iclr.cc/virtual/2021/papers.html>



Which papers?

- ❖ ICML, ECCV, ICCV
- ❖ KDD
 - <https://www.kdd.org/kdd2020/accepted-papers>
- ❖ ECAI/IJCAI
 - <https://digital.ecai2020.eu/accepted-papers-main-conference/>
- ❖ ...



Which papers?

- ❖ Pick one you like from the proposed sources (other sources are acceptable as long as they are peer reviewed and highly cited)
- ❖ Must be related with the course content
 - CNNs, RNNs, Transfer learning, Transformers, HPC + DL
- ❖ The lecturer **MUST VALIDATE** your choice (mail)
- ❖ Post your selection in the forum. Be sure no one has picked it already



What to present?

- ❖ Describe the paper itself, and provide constructive criticism on it.
- ❖ **Incomplete** and **non-compulsory** list of things to discuss:
 - What is the main contribution of the article?
 - How could this paper be extended by more experiments or analysis?
 - Are there flaws in the paper methodology?
 - How reliable are the findings?
 - What consequences / future work can derive from this paper?

General tips

- ❖ Read related work (citations of the paper) when relevant and necessary
- ❖ Don't waste too much time on showing/explaining formulae
- ❖ If necessary prepare extra slides to reply to questions on aspects of the paper you don't have time to explain
- ❖ Assume the audience is an expert. Focus on the interesting parts.
- ❖ If the chosen paper does not feel right, pick & ask for a different one

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