Deep Learning - MAI

Theoretical Presentation guidelines

Dario Garcia Gasulla
dario.garcia@bsc.es

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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Dario Garcia-Gasulla (BSC)

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