

# Reporting reading papers guide - Version 1.0

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## 1 General information

In this document we provide the baseline for what you should present when reporting a paper you read.

You may use the following book as a guideline to create your presentation:

- Matt Carter (2013) *Designing Science Presentations, A visual guide to figures, papers, slides, posters and more*. First Edition, Academic Press, Elsevier.

Check Part 4: Slide presentations, chapters 15 - 22

## 2 Slides presentation

- Generate a slide presentation for each paper you read, **generate at least one slide and no more than two slides for each of the following bullets:**

1. [SLIDE 1] The paper's name.
  - Include information such as the author's names
  - Author's affiliation
  - The paper's publication year
  - The journal or conference where the paper was published

- If the paper is a pre-print then indicate that
2. [SLIDE 2] What is the main problem addressed by the paper?
    - Include a very brief statement of the problem that the paper address
    - Indicate **why** the authors state that the problem is important (this will help you to structure the **motivation** of your research)
    - Indicate **how** the authors state that the problem is worth to solve (this will help is the **justification** of the your research)
      - \* The authors may state that the problem has not been previously solved
      - \* They may compare previous works in the area and show their disadvantages at trying to solve the problem
  3. [SLIDE 3] Clearly state the main objective of the paper
    - There are some papers where the authors do not clearly state their main objective (this is a good signal of a bad paper).
    - If you can not find it, then try to establish a main objective for the paper.
  4. [SLIDE 4] What are the metrics/databases/benchmarks used by the authors to measure the quality of their proposed solution?
    - Computational cost (running time, used memory, algorithmic analysis)
    - If the paper is about parallel algorithms:
      - \* The authors present *weak and strong scaling* experiments?
      - \* What are the maximum number of threads/cores used for their runnings?
      - \* What is the hardware they use (cpus, gpus, npus)?
    - If the paper is about machine learning algorithms:
      - \* What is the database used by the authors?
        - Is it a public database?
        - Can we download it?
        - How many samples has the database?
        - Are they sorted in classes/groups?
      - \* What are the metrics used to qualify the method?
        - Precision, accuracy, F1, AUC, ROC, confussion matrix, sensitivity, specificity

- If the paper propose a new model or method:
  - \* What are the previous models or methods?
  - \* How does the authors justify the developing of a new method or model?
  - \* What does the new model or method covers/includes that previous models/methods do not cover/include?q
  - \* What are the advantages and disadvantages compared with the previous models/methods?
  - \* What are the main limitations of the new method/model?
- 5. [SLIDE 5] What are the limitations, constraints or disadvantages of the proposed solution?
  - What are the drawbacks of the proposed solution?
  - What are the constraints that the problem must satisfy so that the proposed solution may be applied?
- 6. [SLIDE 6] Why did you chose the paper?
  - Why did you find it interesting?
  - How does the paper relates to your research?
  - How can we compare within this paper?
- 7. [SLIDE 7] Free slide
  - Add any information that you find it may be relevant and that does not fit in any of the previous categories