

Writing papers and giving talks

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Presentation

Paper

References

How to prepare a good presentation

- ▶ Do not be too ambitious.
- ▶ You are an expert, most people in the audience know less about the topic you will present.
- ▶ Your talk should finish on time.
- ▶ Do not put too much text on your slides.
- ▶ Whenever possible include images and graphs, instead of text.
- ▶ You should be able to explain *every* word that is on your slide.
- ▶ Practice! Practice! Practice!
 - ▶ If possible give the talk to a friend.
 - ▶ Talk to a mirror.

How to give a good talk

- ▶ Do not only read text from a paper.
- ▶ Talk freely.
- ▶ Look at the audience.
- ▶ Leave enough time for the audience to look at slides especially when presenting graphs and images.
 - ▶ Remember: they might see this for the first time.

- ▶ Title slide
 - ▶ your name,
 - ▶ title,
 - ▶ date.
- ▶ Overview slide: What will you talk about?
- ▶ Motivation,
- ▶ Results,
- ▶ Summary,
- ▶ References.

How to get started?

- ▶ Analyze the material given to you by your supervisors.
- ▶ Analyze your topic.
- ▶ If the material provided to you is not sufficient or you do not understand it, try to find more material:
 - ▶ somewhere on the internet,
 - ▶ in the library,
 - ▶ if you really did an effort and the above failed, consult with your supervisor.
- ▶ A good starting point is always Wikipedia. However, this is not a citable, scientific source.

- ▶ Title,
- ▶ (list of) authors,
- ▶ Abstract,
- ▶ Introduction,
- ▶ the stuff in between,
- ▶ Summary/Conclusion
- ▶ References

- ▶ Usually the title of your paper is the topic that was provided to you.
- ▶ If you change the title, make sure it is informative and provides some information about the topic you will discuss in the paper.

- ▶ The ad and trailer for the paper: it has to be an executive summary of your work in such a way as to attract attention and get the reader to read more.
- ▶ Informative, but short.
- ▶ Provide a *high level* description of the content of the paper.
- ▶ Self contained and not point to other parts of the paper.
- ▶ Should not exceed 200 words.

- ▶ Provides clear motivation to questions studied in the paper.
- ▶ Provides a clear description of the content of the paper.
- ▶ Discusses related work.
- ▶ Should survey the whole paper, and therefore forward reference every important part.
- ▶ Should be 1-2 pages long.

- ▶ Should describe what you did **not** do.
- ▶ Describe what things are missing and where to look further.
- ▶ Should emphasize, why this work is important and represent your opinion about the topic.

- ▶ Have to be correct, complete, and accurate.
- ▶ Only add references that are really used in the paper.
- ▶ Cite in the paper where appropriate.
- ▶ Everything that is not your own, genuine work must be cited.
- ▶ Avoid citing webpages.
- ▶ Do not use Wikipedia in the references.

- ▶ Your paper should tell *one story* and should have a clear structure.
- ▶ Papers are not suspense thrillers, so you need to make sure the reader can follow your thoughts at all times.
- ▶ Start working early on your paper.
- ▶ Ask a friend to proof read it.
- ▶ The first friend is the spell checker.

- ▶ Give a strong visual structure to your paper using.
 - ▶ sections and sub-sections
 - ▶ bullets
 - ▶ laid-out code
- ▶ Find out how to draw pictures, and use them.
- ▶ Use simple language.
- ▶ Use the active voice, passive voice kills the paper.
- ▶ Once you fixed a notation, do not change it.
- ▶ Do not overload notation.

- ▶ How to write a great research paper, Simon Peyton Jones, Microsoft Research, Cambridge, England
- ▶ How to write a paper, Oded Goldreich, Weizmann Institute of Science, Rehovot, Israel