

# Technical Writing and Speaking in English

## Class 7: Writing - Wrap up session

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Danilo Carastan-Santos<sup>1</sup>   Enikő Kevi<sup>1</sup>

20 October 2023

<sup>1</sup>Université Grenoble Alpes, Grenoble INP, Inria, LIG, France

email:`danilo.carastan-dos-santos@inria.fr`

`eniko.kevi@univ-grenoble-alpes.fr`

What we have discussed so far:

- Writing the main section of a research paper
  - explaining the model, the methodology
  - algorithms, proof
  - visualization of the results
  - detailing experiments
- Writing the conclusion
- Writing the introduction

# Overview

What we have discussed so far:

- Writing the main section of a research paper
  - explaining the model, the methodology
  - algorithms, proof
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What remains:

- Take a step back and review the paper
  - review the organization of the paper
  - make sure the text follows the guidelines we have discussed
- Write an abstract
- Come up with a title

# Organization: a typical layout of a research paper

## Title

Abstract

## 1 Introduction

- 1.1 Context (often omitted as a subtitle name)
- 1.2 Motivations
- 1.3 Results and Related work
- 1.4 Paper overview

## 2 Contribution

- 2.1 Context (often omitted as a subtitle name)
- 2.2 Model
- 2.3 Explanation and Proof

## 3 Experiments

- 3.1 Experiment setting
- 3.2 Obtained results
- 3.3 Evaluation of the results

## 4 Conclusion

## Tags (keywords)

Tags (or keywords) are required for paper submissions and publications. Researchers use them to identify the research field the paper belongs to, to find reviewers, and to search for the papers afterwards.

- make sure to double-check which tags are used in your research field's community
- tags are usually sorted by decreasing importance

Abstracts are standalone sections of research papers, which should

- inform the readers about the content of the paper
- motivate them to read it
- without withholding details to 'force' the readers to go through the paper
- and without being lengthy and overwhelming.

The size of the abstract is typically not longer than one or two medium-sized paragraphs.

Titles are a little piece of poetry.

- they should sound good and memorable
- show confidence and be professional
- avoid using 'towards', 'babysteps', and questions
- make sure the title helps other researchers in your field find your paper

## 1) Exercise

Write a title and an abstract for a paper which proves that  $P = NP$ . (Contrarily to the common belief.)