

Template and Guidelines for Writing a Scientific Paper

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Abstract — *The abstract should concisely summarize the contents of a paper. Since potential readers should be able to make their decision on the personal relevance based on the abstract, the abstract should clearly tell the reader what information he can expect to find in the paper. The most essential issue is the problem statement and the actual contribution of described work. The authors should always keep in mind, that the abstract is the most frequently read part of a paper. It should contain at least 70 and at most 120 words.*

1 INTRODUCTION

This document serves two purposes. First it is a template and example for a scientific paper. Second, the text in the sections contains useful information on structuring and writing your first paper. We recommend to read the following sections carefully in order to avoid common mistakes.

The introduction should consist of three parts (as paragraphs, not to be structured into multiple headings):

The first part deals with the *background* of the work and describes the field of research. It should also elaborate on the *general problem statement* and the *relevance*?

The second part should describe the focus of the paper, typically the paragraph starts with a phrase like "*The objective of this paper is ...*".

The last part should describe the structure of the paper, for example: The paper is structured as follows: Section 2 explains the overall structure for different types of scientific papers. Section 3 gives some hints on writing and covers also acronyms, figures and tables. Section 4 gives a recommendation on L^AT_EX and explains how to get the necessary tools. Section 5 presents a checklist of common mistakes to avoid. Section 6 concludes the paper.

2 STRUCTURE OF YOUR PAPER

2.1 RESEARCH PAPERS

The structuring of your sections heavily depends on the type of your paper. For example if you have done some research encompassing an experimental setup and measurements, your paper could be possibly structured as follows:

- Abstract; Kurzfassung, Abstract
- Introduction; Einführung
- Related Work; Verwandte Arbeiten
- Basic concepts, Concepts and Terms; Grundbegriffe, Grundkonzepte und Definitionen
- Experimental setup, Applied Method; Versuchsaufbau, Vorgangsweise
- Results; (Experimentelle) Ergebnisse
- Discussion, Proof; Diskussion, Beweis
- Conclusion (and Outlook), Summary; Schlussfolgerungen, Fazit; Zusammenfassung (und Ausblick)
- References; Literaturverzeichnis

The colons separate possible variants in naming the sections. The variants after the semicolons give the German counterparts. If some text is in brackets, this text could be optionally added to the given variant (but used without brackets).

The section on related work might also appear right before the concluding section.

The section on basic concepts should introduce the basic terms and concepts that are needed to understand the following sections of the paper. Sometimes, it is not necessary to have a separate section on basic concepts, if the basic concepts are well-known or can be covered in the introduction.

The experimental setup typically describes the used hardware, software, and the implementation. If your implementation has a fancy name, you could also name that section that way (for example *KMU/FEU System Description*).

Most papers you will read for your first paper will likely be such *research papers*.

2.2 SURVEY PAPERS

If you do a literature research comparing some approaches, your paper could be possibly structured as follows:

- Abstract; Kurzfassung, Abstract
- Introduction; Einführung

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Philip H. Pollock III, Barry C. Edwards

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Improving

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Integrity of Scientific Research Joel Faintuch,Salomão Faintuch,2022-10-13

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National Meeting, 1989 **Advanced Materials Researches, Engineering and Manufacturing Technologies in**

Industry Hong Hua Tan, 2013-09-04 Selected peer reviewed papers from the 2013 2nd International Symposium on

Materials Science and Engineering Technology ISMSET 2013 July 27-29 2013 Singapore **Advance Papers of the**

Conference, 1975 Scientific American, 1883 **Advance Papers**, 1975 *Current Awareness Abstracts*, 2000

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Proceedings of the 1975 Conference on Information Sciences and Systems, 1975 Yale Scientific, 2001 *Principles and Practices for Using Scientific Advice in Government Decision Making* William Smith, 1999 This report characterizes the international responses to the changing demands on the science policy process Chapter 1 discusses the role of science advice in government decision making with regard to such issues as the science policy interface the decision making environment

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