

Template and Guidelines for Writing a Scientific Paper

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March 30, 2007

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 $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ 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; Einleitung
- Related Work; Verwandte Arbeiten
- Basic concepts, Concepts and Terms; Grundbegriffe, Grundkonzepte und Definitionen
- Experimental setup, Applied Method; Versuchsaufbau, Vorgangsweise
- Results; (Experimentielle) 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 semicolon 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 *KHUFU 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; Einleitung

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Table of Contents Science Research Paper Template

1. Understanding the eBook Science Research Paper Template
 - The Rise of Digital Reading Science Research Paper Template
 - Advantages of eBooks Over Traditional Books
2. Identifying Science Research Paper Template
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Science Research Paper Template
 - User-Friendly Interface
4. Exploring eBook Recommendations from Science Research Paper Template

- Personalized Recommendations
 - Science Research Paper Template User Reviews and Ratings
 - Science Research Paper Template and Bestseller Lists
5. Accessing Science Research Paper Template Free and Paid eBooks
 - Science Research Paper Template Public Domain eBooks
 - Science Research Paper Template eBook Subscription Services
 - Science Research Paper Template Budget-Friendly Options
 6. Navigating Science Research Paper Template eBook Formats
 - ePub, PDF, MOBI, and More
 - Science Research Paper Template Compatibility with Devices
 - Science Research Paper Template Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Science Research Paper Template
 - Highlighting and Note-Taking Science Research Paper Template
 - Interactive Elements Science Research Paper Template
 8. Staying Engaged with Science Research Paper Template
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Science Research Paper Template
 9. Balancing eBooks and Physical Books Science Research Paper Template
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Science Research Paper Template
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Science Research Paper Template
 - Setting Reading Goals Science Research Paper Template
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Science Research Paper Template

- Fact-Checking eBook Content of Science Research Paper Template
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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