

# 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 L<sup>A</sup>T<sub>E</sub>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; 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

# Science Research Paper Template

**O García**

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**Abstracts of Papers** American Association for the Advancement of Science.

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

**Journal of Nanoscience and Nanotechnology**, 2007 **Eloquent Science** David M. Schultz, 2009 Eloquent Science A Practical Guide to Becoming a Better Writer Speaker Atmospheric Scientist was conceived from a workshop taught over six years to undergraduate students at a summer research experience The volume is divided into three parts writing, reviewing, and speaking and offers tips on poster presentations, media communication, and advice for non-native speakers of English as well as appendices on proper punctuation usage and meteorological concepts Sidebars written by experts in the field offer diverse viewpoints on reference topics important to the reader and a recommended reading section at the end of the book guides the reader to the best additional resources

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quality control risk assessment science communications and science in a social context Chapters 2 3 review the key elements of different systems of science advising best practices and approaches to risk assessment public communications in the European Union New Zealand the Nordic Union the United Kingdom the United States Australia the World Bank and national science academies Chapter 4 contains case studies that examine the effective use of different principles for the incorporation of science into decision making The final chapter reviews the main points lessons learned *Issues in Information Science Research: 2011 Edition* ,2012-01-09 Issues in Information Science Research 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Information Science Research The editors have built Issues in Information Science Research 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Information Science Research in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Information Science Research 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

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