

# 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<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

**Joel Faintuch, Salomão Faintuch**

## Science Research Paper Template:

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disciplines It is an invaluable resource for those working on a PhD thesis research paper dissertation or report Writing these documents can be a long and arduous experience for students and their supervisors and even for experienced researchers However this book can hold the key to success Mapping the steps involved in the writing process from acquiring and organizing sources of information to revising early drafts to proofreading the final product it provides clear guidance on what to write and how best to write it Features Step by step approach to academic writing in scientific disciplines Ideal guidance for PhD theses papers grant applications reports and more Includes worked out examples from real research papers and PhD theses and templates and worksheets are available online to help readers put specific tasks into practice *Improving Scientific Communication for Lifelong Learners* Kurubacak-Meric, Gulsun,Sisman-Ugur, Serap,2021-02-19

Scientific communication Sci Com is a part of information science and the sociology of science that studies researchers use of formal and informal information channels as well as their communicative roles It also covers the utilization of the formal publication system and similar issues Within the scientific community much attention has focused on improving communications between scientists policymakers and the public Sci Com is an important area of research in meeting these needs The use of communication methods to portray information clearly concisely and effectively whether that be through presentations writing or other approaches is an essential area of interest within the community Improving Scientific Communication for Lifelong Learners seeks to improve scientific writing and speaking skills for lifelong learning researchers by developing an adaptive and responsive open and distance application according to universal design principles The book will focus on the efforts that are centered on improving the content substantiality accessibility and delivery of scientific communications and to convey clear information to an audience so its members can understand use and build on the information portrayed The chapters highlight specific areas such as design thinking distance learning educational technologies student success and motivation and the design of educational environments and learning communities This book is a valuable reference tool for teachers academics communication specialists students researchers developers and R D professionals from various fields such as distance learning online learning accreditation qualitative and quantitative research transhumanism and learning computer engineering sociology and more *Integrity of Scientific Research* Joel Faintuch,Salomão Faintuch,2022-10-13

This book provides a scientific and ethical approach to all forms of fraud and misconduct focusing on a scholarly however practice oriented description of the problems roots and potential solutions Organized in dedicated parts an international team of experts systematically analyzes the most prevalent forms of misconduct ghost writing pseudo science dubious trials predatory journals fake news mistreatment and harassment in research publications at academic institutions and in the professional and healthcare environment A special focus is given to corrective interventions and the role of prevention education and training Comprehensive in its scope the book offers an easy to read overview along with a number of real cases for experienced and novice personnel alike The significance of scientific integrity and research ethics increased during

the last couple of years and ethic committees and offices have become an integral part at universities hospitals research institutions government agencies and major private organizations all over the world Thus this book provides an indispensable comprehensive overview across disciplines and for everybody working in research and affiliated institutions Chapter 37 is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](http://springer.com) [The Essentials of Political Analysis](#) Philip H. Pollock III, Barry C. Edwards, 2024-12-20 Equip students with the skills and confidence they need to conduct political analyses and critically assess statistical research In the Seventh Edition of The Essentials of Political Science bestselling authors Philip H. Pollock III and Barry C. Edwards build students analytic abilities and develop their statistical reasoning with new data, fresh exercises, and clear examples This brief and reader friendly guide walks students through the essentials defining measurement, formulating and testing hypotheses, measuring variables while using key terms chapter opening objectives over 80 tables and figures and practical exercises to get them using and applying their new skills Using Excel, R, SPSS or STATA Companion workbooks featuring statistical software instructions and exercises help your students apply their knowledge [Abstracts of Papers](#) American Association for the Advancement of Science.

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

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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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