

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 $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ 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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L Towne



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Writing Scientific Research Articles Margaret Cargill, Patrick O'Connor, 2009-04-20 Margaret Cargill s background as a linguist and research communications educator and Patrick O

Connor's experience as both research scientist and educator synergize to improve both the science and art of scientific writing. If the author's goal is to give scientists the tools to write and publish compelling, well-documented, clear narratives that convey their work honestly and in proper context, they have succeeded admirably. *Veterinary Pathology*, July 2009. The book is clearly written, has a logical step-by-step structure, is easy to read, and contains a lot of sensible advice about how to get scientific work published in international journals. The book is a most useful addition to the literature covering scientific writing. *Aquaculture International*, April 2009.

Writing Scientific Research Articles: Strategy and Steps guides authors in how to write as well as what to write to improve their chances of having their articles accepted for publication in international peer-reviewed journals. The book is designed for scientists who use English as a first or an additional language for research students and those who teach them paper writing skills, and for early career researchers wanting to hone their skills as authors and mentors. It provides clear processes for selecting target journals and writing each section of a manuscript, starting with the results. The stepwise learning process uses practical exercises to develop writing and data presentation skills through analysis of well-written example papers. Strategies are presented for responding to referee comments, as well as ideas for developing discipline-specific English language skills for manuscript writing. The book is designed for use by individuals or in a class setting. Visit the companion site at www.writeresearch.com.au for more information.

Mastering Academic Writing in the Sciences Marialuisa Aliotta, 2018-04-17. This book provides a comprehensive and coherent step-by-step guide to writing in scientific academic 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 available online to help readers put specific tasks into practice.

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

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Scientific American ,1928 Monthly magazine devoted to topics of general scientific interest Popular Science Monthly ,1930 *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 **Engineering** ,1922 *Yearbook and ... Proceedings* Casualty Actuarial Society, 2007 **Current Index to Journals in Education** ,1998 *Papers Presented at the ... Meeting* American Chemical Society. Division of Polymer Chemistry, 1991 *Proceedings of the Seventh International Joint Conference on Artificial Intelligence* Ann Drinan, 1981

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