

Template and Guidelines for Writing a Scientific Paper

Thomas Kiebel, Michael Schulze, and Sebastian Zug

Institute of Embedded Systems and Operating Systems

Department of Distributed Systems

Otto-von-Guericke-University Magdeburg

{kiebel,mschulze,zug}@ivs.cs.uni-magdeburg.de

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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; 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

Science Research Paper Template

Hong Hua Tan



Science Research Paper Template:

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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.

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.

JOURNAL OF SCIENCE AND ENGINEERING, **Research in Education**, 1971.

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 are available online to help readers put specific tasks into practice 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 *Advances in Materials Science* Jian Xin Zou,2015-02-10 Selected peer reviewed papers from the International Conference on Advances in Materials ICAM 2014 December 13 14 2014 Shanghai China **Advance Papers of the Conference** ,1975 *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 **Advance Papers** ,1975 **Proceedings of the Seventh International Joint Conference on Artificial Intelligence** Ann Drinan,1981 **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 **Current Awareness Abstracts** ,2000 **Scientific American** ,1883 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 internal procedures outside advice 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 Current Index to Journals in Education ,1998-04 **Proceedings of the 1975 Conference on Information Sciences and Systems** ,1975 Library & Information Science Abstracts ,2008

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What is the change in atomic number after the alpha decay? It decreases by 2. b. ... answer the following questions. **Nuclear** ... 25.2 Nuclear Transformations | Lecture notes Chemistry These nuclei decay by turning a neutron into a proton to emit a beta particle (an electron) from the nucleus. This process is known as beta emission. It ... 60 s - 1 min SECTION 25.2 NUCLEAR TRANSFORMATIONS. 1. Write a nuclear equation for the following radioactive processes. a. alpha decay of francium-208 $^{208}\text{Fr} \rightarrow \text{b} \dots$ Solutions manual for statistics for engineers and scientists ... May 25, 2018 — Solutions Manual for Statistics for Engineers and Scientists 4th Edition by William Navidi Full download: ... (PDF) Solutions Manual to accompany STATISTICS FOR ... Solutions Manual to accompany STATISTICS FOR ENGINEERS AND SCIENTISTS by William Navidi Table of Contents Chapter 1 (c) Answers will vary. 5. (a) N 0 27 0 ... (PDF) Solutions Manual to accompany STATISTICS FOR ... Solutions Manual to accompany STATISTICS FOR ENGINEERS AND SCIENTISTS Fourth Edition. by Meghan Cottam. See Full PDF Statistics for Engineers and Scientists Solutions Manual william-navidi-solutions-manual/ Solutions Manual to accompany. STATISTICS FOR ENGINEERS AND SCIENTISTS, 4th ed. Prepared by. William Navidi PROPRIETARY AND ... Statistics For Engineers And Scientists Solution Manual Textbook Solutions for Statistics for Engineers and Scientists. by. 5th Edition. Author: William Cyrus Navidi, William Navidi. 1288 solutions available. William Navidi Solutions Books by William Navidi with Solutions ; Student Solution Manual for Essential Statistics 2nd Edition 0 Problems solved, Barry Monk, William Navidi. Navidi 2 Solutions Manual solutions manual to accompany statistics for engineers and scientists william navidi table of contents chapter chapter 13 chapter 53 chapter 72 chapter 115. (PDF) Statistics for Engineers and Scientists- Student Solution ... Solutions Manual to accompany STATISTICS FOR ENGINEERS AND SCIENTISTS Third Edition by William Navidi Table of Contents Chapter 1 . Solutions Manual for Statistics for Engineers and Scientists Solutions Manual for Statistics for Engineers and Scientists, William Navidi, 6th Edition , ISBN-13: 9781266672910 ISBN-10: 1266672915. Instructor solutions manual pdf - NewCelica.org Forum The Instructor Solutions manual is available in PDF format for the following textbooks. The Solutions Manual includes full solutions to all problems and ... An Introduction to Behavioral Psychology - Rivier Academics An Introduction to Behavioral Psychology. Behavioral psychology, or behaviorism, is a theory suggesting that environment shapes human behavior. In a most basic ... Introduction to Behavior: An Evolutionary Perspective ... An up-to-date approach to behavior analysis within the framework of evolutionary theory. Introduction to Behavior is a contemporary textbook for students in ... An Introduction to Behavior Analysis The book offers readers sound analyses of Pavlovian and operant learning, reinforcement and punishment, motivation and stimulus control, language and rule- ... An Introduction to Behavior Analysis An Introduction to Behavior Analysis delivers an engaging and comprehensive introduction to the concepts and applications for graduate students of behavior ... An Introduction to Behavior-Centered Design In this self-paced course, you will explore a step-by-step approach and principles for designing behavior change solutions to environmental challenges. Introduction to Psychology/Behavior

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