



Faculty of computer science

HS: Privacy in OSN

Kickoff: Reading and writing in academia

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Outline

TECHNISCHE UNIVERSITÄT DRESDEN

- Literature
- Writing
- 3 Academic honesty
- 4 Peer-reviewing
 - In academia
 - In the seminar
- 5 Easychair



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Literature

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Finding papers

Search engines

- Google scholar
- Springer (TUD IP)
- IEEE Xplore (TUD IP)
- DRPI
- Citeseer

Keyword search

- Be creative. Try different keywords Backward search
 - Which papers are referenced?

Forward search

Which papers reference this one?

Ask uour supervisor :-)



References

- C. Aguilar-Melchor, J. Barrier, L. Fousse, and M.-O. Killijian. XPIR: Private Information Retrieval for Everyone. Proceedings on Privacy Enhancing Technologies, 2016(2): 155-174, 2016. doi:10.1515/popets-2016-0010
- M. Alsabah and I. Goldberg. Performance and Security Improvements for Tor: A Survey. ACM Comput. Surv., 49 (2), 2016. doi:10.1145/2946802.
- S. Angel and S. Setty. Unobservable Communication over Fully Untrusted Infrastructure. In OSDI, pages 551-569.

How china is blocking Tor

IPDFI arxiv.org

P Winter, S Lindskog - arXiv preprint arXiv:1204.0447, 2012 - arxiv.org Abstract: Not only the free web is victim to China's excessive censorship, but also the Tor anonymity network: the Great Firewall of China prevents thousands of potential Tor users from accessing the network. In this paper, we investigate how the blocking mechanism is Cited by 22 Related articles All 13 versions Cite Save More



Reading papers

Criteria

- · Promising title!
- Considers the same area / problems.
- BUT it does not really have to be relevant for your topic
 - Different scope / assumptions
 - Not a new system, only evaluation.
- · Reading order
 - Title
 - Abstract
 - Summary & Conclusion
 - Introduction
 - The rest



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Questions to ask

- What problem is tackled?
- How is the problem motivated?
- What assumptions is the work based on?
- What solution to the problem is proposed?
- How is the solution evaluated?
- What is the setup of the evaluation?
- What are the main contributions of the paper?
- Are there any open questions?
- Problems in the evaluation / assumptions?



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Outline

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- Title
- Abstract
- Introduction
- Literature survey
- Background
- Theory
- Specification
- Implementation / Evaluation / Related work
- Summary / Further work / Conclusion.

		CONTENTS
		s
FIG	UKE	9
1.0	INT	RODUCTION
2.0	DES	SIGN PROJECT BACKGROUND
	2.1	Problem Definition
	2.2	Needs Analysis
	2.3	Key Performance and Environmental Requirements
	2.4	Deliverables
		2.4.1 Firmware Code
		2.4.2 Hardware
		2.4.3 Report
3.0	SYS	TEM DESIGN
	3.1	On- & Off-Board Design
	3.2	Functional Block Descriptions
	3.3	Hardware Implementation
	3.4	Linear Testing
		3.4.1 Gain Error
		3.4.2 Offset Error
		3.4.3 Differential Non-Linearity
		3.4.4 Integral Non-Linearity
		3.4.5 Total Unadjusted Error
		3.4.6 Missing Codes
	3.5	
		3.5.1 The FFT
		3.5.2 Total Harmonic Distortion
		3.5.3 Signal-To-Noise Ratio
		3.5.4 Spurious Free Dynamic Range
		3.5.5 Two Tone Intermodulation Distortion
		3.5.6 Effective Number of Bits
4.0		R INTERFACE
5.0		K REDUCTION
6.0		OTOTYPE COST
7.0		ST PLAN
8.0	PRO	DJECT SCHEDULE
9.0		NCLUSION
REF	ERE	NCES
APF	END	IX A - RELEVANT STANDARDS
APF	END	IX B – BILL OF MATERIALS



What to include

Abstract

- Problem statement
- Relevance: Why is this problem really a problem?
- Response: What is your solution to the problem?
- Confidence: How do you show in this paper that your solution is good?

Introduction

- Broad topic, potentially little broad background.
- Topic, some background.
- Our goal, research question, motivation and relevance.
- Why is it a problem the reader should care about? Why is it hard?
- Related work
- · Your contributions in this paper
- Reader's digest





What to include

Background

- · Basic principles
- Definitions
- Related work

Literature survey

- Comparison / classification of related work
- Use same measures / structure for each work
- Often, $a_1, a_2, a_{etc}, b_1, b_2, b_{etc}$

Summary, conclusion and outlook

- Re-state what you did in this paper
- What is the main insight?
- What are the potential next steps?



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Bad	Good
Johnson found that "ABC" [1]	A'B'C' [1]
In their paper "XYZ", the authors find that ABC [1]	ABC [1]
Mark Smith found that [1]	Smith found that [1]
Mark Smith and John Shepard found that [1]	Smith and Shepard found that [1]
Smith, Shepard, and Green found that [1]	Smith et al. found that [1]
In 2005 [1]	[1]



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Sentences

- Present a single statement
- E.g. "x = y", "red is not blue", "z < 1 => x = y"

Paragraphs

- Statements belonging to the same idea / concept
- E.g. "x > 2" and "y = 7 => x > 10"

Sections

- Combines statements belonging to the same line of thought
- In most cases: same level of abstraction
- E.g. "preliminaries for X", "approaches for X", "new ideas"

Abstraction levels

- One level per paragraph
- From high to low abstraction level or vice versa
- E.g. Design -> specification -> implementation (or the opposite)



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English hints

- a, b, and c
- i.e. means id est (clarification)
- e.g. means exempli gratia (example)
- cf. confer (do not use cp.)
- et al. means et alii (and others)
- Figure, Table, Section, Chapter
- "we" describe (do passive, only present)



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Paraphrase and write in your own words.

It is ok to sometimes include some "quotes" from some papers. Don't do that ofetn though.

Close that other window and / or browser / pdf reader while you write :-)

http://integrity.ou.edu/files/nine_things_you_should_know.pdf



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In a Nutshell

Reviewing means:

Objectively read and criticize a work in a structured process

Done by people of similar qualification as the readership

· Hence: peer review

Reviews are passed back to authors

• Should aid them in improving their work

Reviews are written anonymously

- Author does not know the reviewer's name
- Sometimes: reviewer does not know the author's name

Work is reviewed by several reviewers

- To ensure fair treatment
- To get several views on a work



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The purpose

The objectives of peer-review are...

- Improving published texts
- · Guarantee standards of quality
- Filter mechanism: What's worth to be read and presented on a conference?



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The process

Roles in the review process

- Authors
- Reviewers (PC members)
- Organizers (PC chairs)
- Authors submit paper (e.g., to a conference)
- Paper is assigned to reviewers (e.g., through paper bidding)
- Reviewers submit review reports
- Reviews are released to author
- 6 Authors resubmit paper (when accepted)



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The review

Reviewer compiles review by filling out review form

- Multiple-choice and free-text questions
- Free-texts are most important in the seminar (detailed feedback)

Review should contain:

- · Summary of paper's content
- Evaluation of the research goal
- Evaluation of the quality
- Recommendation: Should the paper be accepted?
- List of necessary/recommended changes

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Quality criteria

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- Correctness
- Significance
- Innovation
- Interest
- Timeliness
- Accessibility

- Elegance
- Readability
- Compactness
- Style (Structure, Flow, Vocabulary, Grammar)
- Polish



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Questions

- Written well enough for you to evaluate the technical content?
- Does the abstract describe the paper?
- Does the introduction adequately explain context and problem?
- Are the remaining sections clear?
- Do they follow in a logical order?
- Is there too much or too little detail?
- Are the figures and tables well labeled, legible, and meaningful?
- Are there too many or too few tables and figures?
- Are explanations poor or even nonsensical?
- Is the paper sufficiently self-contained?
 - Can someone knowledgeable in the field understand it?
 - Does the reader need detailed knowledge of the research field?
- Is the paper too colloquial or too formal in style?
 - Is the formalism useful or necessary?
- Is the paper too long?
 - Does it contain too much material or has the author been too wordy?
- Does the paper contain typographical errors or problems in grammar, punctuation, and wording?

Evaluating surveys

- Does it cover the material promised by title and abstract?
- Is this a reasonable body of knowledge to cover in a survey?
 - Is the scope too wide, too narrow, or too bizarre to be useful?
 - Is the selection balanced or biased?
- Does the paper have a consistent theme?
- Is the material correct?
- Is the level of coverage too simple-minded or sophisticated, given the likely audience?
- Is the paper well written and clear?



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Peer-reviewing in the seminar - Purpose

Improve the texts to be written Get an broader insight into the research area Learn from other people's work (and their mistakes) Train your abilities to

- Criticize other people's work
- Accept and reflect on other people's opinion

Train to understand the quality of papers, enabling you to

- Detect weak AND strong characteristics of a paper
- · Identify aspects that make a paper better (or less) readable



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Peer-reviewing in the seminar - Quality criteria

- Correctness
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Peer-reviewing in the seminar - Writing reviews

- Be polite and fair
 - Name the positive aspects as well
- Be thorough
 - Commit some time to the review
- Be critical
- Be constructive
- Be specific
 - Name key examples if there are too many errors of the a certain type
- Give reasons for your statements
- Basically: compare with you understanding of a good paper
 - And he reasonable!



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Examples of bad reviews

- "The biggest problem with this manuscript, which has nearly sucked the will to live out of me, is the terrible writing style."
 - [Not polite]
- "I started to review this but could not get much past the abstract."
 - [Not thorough]
- "I usually try to be nice but this paper has got to be one of the worst I have read in a long time."
 - [Not constructive]
- "The abstract and results read much like a laundry list."
 - [Does not help the author and specify reasons why]



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Peer-reviewing in the seminar - Responding

Try to see reviews as an opportunity to improve your work Try to understand each review's points and consider them

- Esp. in case different reviews contradict each other
- You should not reject a change without considering it
- Is it really wrong or do you just misunderstand the reviewer?

Don't be offended by "harsh"/"wrong"/"unfounded" criticism

- Definitions of politeness and fairness might differ :-)
- Lack of time might lead to harsh wording
- Wrong criticism might be based on misunderstandings of your work
 - In this case: clarify your work!



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Easy chair

Web-based conference management system In EasyChair:

- You submit your paper
- · You bid for paper reviews
- You access the papers you should review
- You submit your reviews

Registration

Use the same email address used in the seminar registration form! You will have two roles:

- Author
- Program committee (PC) member
- You can switch between both roles



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Submit papers through EasyChair

- Submission page: (See course website)
- Check that you submit to the right conference: POSN-SS17

Deadline for paper submission: (See course website)

- You can update your paper and meta information until then
- To submit you have to be in the author role in EasyChair

Receive reviews from other reviewers

- Date: (See course website)
- You will get an email containing the reviews for your paper



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Paper bidding

How to become a PC member.

- Receive an invitation from us via email
- ... and accept it ;-)

Paper bidding in EasyChair

- · State for each topic, whether you want to review it:
 - "Yes" / "maybe" / "no" / "conflict"
 - If you don't bid, we will bid for you
- EasyChair tries to compute an optimal review assignment
- There are no guarantees that you get your preferences
- Deadline for bidding: (See course website)

To bid you have to be in the PC member role



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Two papers are assigned to each reviewer (deadline on course website) Fill out review form and submit it

- Choose "Reviews" -> "My papers" from the menu
- · Choose "Add review", fill the review form online and submit it
- Store a copy of the review on your machine (just in case ...)

Deadline for review submission: (see course website)

You can revise your review

To review you have to be in the PC member role!



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-3 (strong reject)

The review form

Please summarize the paper's main contributions. (one paragraph, ca. 200 words)

Please describe three strong points of the paper. (number them \$1,\$2,\$3)

Please describe three weak points of the paper. (number them W1,W2,W3)

Please give detailed comments to the author with respect to the criteria above.

Please be as precise as possible. (min. 300 word)

*** EVALUATION:		
— 3 (strong accept)	*** CONFIDENCE:	*** STRUCTURE
— 2 (accept)	— 4 (expert)	— 5 (excellent)
— 1 (weak accept)	— 3 (high)	— 4 (good)
— 0 (borderline)	— 2 (medium)	— 3 (fair)
— -1 (weak reject)	— 1 (low)	— 2 (poor)
— -2 (reject)	— 0 (null)	— 1 (very poor)

*** READABILITY

*** ARGUMENTATION

*** LANGUAGE

*** GRAMMAR

*** FORMATTING

*** CITATION STYLE

*** ABSTRACT

*** INTRODUCTION

*** MAIN PART

*** CONCLUSION

*** OVERALL RATING

□ ▶ ◀♬ ▶ ◀ 분 ▶ ◆ 분 | 두 | 두 | 연 및 연

Sources / Further reading

- Alan Jau Smith: Task of the Referee (1990)
- Ian Parberry: A Guide for New Referees in Theoretical Computer Science (1989)
- Environmental Microbiology 2010 Referees' quotes (2010)
- The Oatmeal
 - http://theoatmeal.com/comics/ie
 - http://theoatmeal.com/comics/misspelling
 - http://theoatmeal.com/comics/semicolon
 - http://theoatmeal.com/comics/apostrophe
- S & W: The Elements of Stule
- ETHz: Writing reviews for sustems conferences
- Uni Waterloo: A paper about reading a paper
- ETHz: Writing a scientific paper



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Date	Task
07.04.	Topics presentation
13.04.	Topics assignment
21.04.	Kickoff - Writing & reviewing
25.04.	List of initial references
	Discussion with supervisor
12.06.	Paper submission
13.06.	Review claiming
26.06.	Reviews due
17.07.	Final paper due
21.07.	Send initial version of presentations
28.07.	Final presentations



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. Good luck!