How to get your paper accepted at IM/NOMS

IM 2009 - Ph.D. Track

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- 1) Writing your paper
- Writing style
- Paper structure
- References
- Common mistakes
- 2) Submitting your paper
- 3) The review process
 - The reviewer
 - The TPC meeting





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New ideas on ABC

What is wrong?

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I. Incommunication

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II. Essential

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The goal of this paper is to provide an overview of my research. The paper discusses existing literature, the goals to be achieved in my research, and presents the ABC architecture, which was developed by me.

Writing style

Why would someone be interested in your work?

It is YOUR task to make the reader interested!

Put yourself into the position of the reader

- Have a clear idea about your target audience
- What will your reader already know?

Explain your contribution in a few lines

Elevator pitch





How to get the reader interested?

- 1. Include pictures of scarcely dressed students
- 2. Include many figures
- 3. Include some research questions
- 4. Reference the reviewer's work
- 5. Include many equations





Include some research questions

- Triggers the reader to think first
- Forces the author to formulate the key contributions in a precise way
- Helps to explain the research approach and paper's structure
- Allows meaningful conclusions





New ideas on ABC

Mille Bess', hingue Rellieuwiller', Mathi Masses', Leudt Relliggers', Masses van De Masset'

' Hampates Relevan

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R.H. BIRL Hill Besselvelle

The goal of this paper is to investigate how SNMP is used in practice. In particular, the following questions will be investigated:

- 1. Is SNMP primarily used for monitoring, or is it also used for configuration purposes?
- 2. Is management primarily based on standardized, or on vendor-specific MIB objects?
- 3. Is security an issue in network management? In other words, is SNMPv3 being used in practice?

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II. Related work

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Structure of paper

Abstract

- Contribution
- 1. Intro
 - context of your work / motivation for research in this area (broad)
 - what is the specific problem this paper focuses on
 - research questions (3 to 6)
 - approach / how will you answer these questions
 - paper organization
- 2. Contents
- X-1. Contents
- X. Conclusions
- X+1 References





New ideas on ABC

Mills Beer', Diegen Hellinmiller', Mathi Hamen', Leult Helliggerr', Hamen von In Marest'

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I. Introduction

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Context / motivation

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Specific problem

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Research questions

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II. Related work

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V. Conclusions

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Answer research question 1

Answer research question 2

Answer research question 3

Further work

Between intro and conclusions ...

Depends on the kind of paper:

- Measurement paper
- Design paper
- -Survey paper





Measurement paper

Possible structure:

- Chapter 1: Introduction
- Chapter 2: Measurement tools
- Chapter 3: Measurement environment
- Chapter 4: Results
- Chapter 5: Discussion
 - relation to earlier work / literature
- Chapter 6: Conclusions
- References





Design paper

Possible structure:

- Chapter 1: Introduction
- Chapter 2: Existing literature
- Chapter 2: New architecture
- Chapter 1. Implementation
- Chapter 5: Measurements
- Chapter 6: Conclusions
- References

What is wrong?



Design paper

Possible structure:

- Chapter 1: Introduction
- Chapter 2: Requirements
- Chapter 3: Existing solutions
- Chapter 4: New architecture
- Chapter 5: Verification
- Chapter 6: Conclusions
- References

Possible requirements:

- High performance
- Scalable
- ...
- Demonstrate existing solutions do not satisfy the requirements
- Explain small fixes are impossible
- **→** discussion of literature

Verify requirements are met:

- Qualitative
- Quantitative:
 - ▶ Analytical model
 - **▶** Simulation
- ▶ Prototype and measurements Compare to existing solutions



Survey paper

Possible structure:

- Chapter 1: Introduction
- Chapter 2: Paper 1
- Chapter 3: Paper 2
- Charter 4: 1 oper 3
- Chapter 5: Paper
- Chapter 6: Conclusions
- References

What is wrong?



Survey paper

Possible structure:

- Chapter 1: Introduction
- Chapter 2: Literature search
- Chapter 3: Architecture / Taxonomy
- Chapter 4: Aspect 1
- Chapter 5: Aspect 2
- Chapter 6: Aspect 3
- Chapter 7: Conclusions
 - Lessons learned
- References

Explain how you found literature

- Web search (scholar, ...)
- Web of Science / Scopus
- Citations

Discuss literature:

- General approaches
- Approaches specific for our context
- What will we do the same
- What will we do different





Example: survey of Internet in planes

. . .

Chapter 3: Architecture

- Communication within a plane
- Communication to ground stations
- Security
- Performance

Chapter 4: Communication within a plane

Chapter 5: Communication to ground stations

Chapter 6: Security

- 6.1: General security approaches
- 6.2: Specific security problems in planes





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Be consistent!

What is wrong?

[1] J. Schönwälder. SNMP Traffic Measurements. Internet Draft <draftirtf-npag-snmp-measure-14.txt>, May 2007.

- [2] Pav ou G., Flegkas P., Gouveris S., and Liotta A. On Management Technologies and the Potential of Web Services. *IEEE Communications* Magazine, 42(7):58-66, July 2004.
- [3] J. Schoenwaelder. Characterization of SNMP MIB Modules. In Proc. 9th IFIP/IEEE International Symposium on Integrated Network Management, pages 615–628. IEEE, May 2005.
- [4] The SimpleWeb, http://www.simpleweb.org./.
- [5] A. Corrente and L. Tura. Security Performance Analysis of SNMPv3 with Respect to SNMPv2c. In Proc. 2004 IEEE/IFIP Network Operations and Management Symposium, Seoul, Apr. 2004.
- [6] Drevers T., van de Meent R., and Pras A.: Prototyping Web Services based Network Monitoring. Proc. 10th EUNICE Summer School and IEIP WG6.3 Workshop, pages 135-142, Tampere, Jun. 2004.
- [7] X. Du, M. Shayman, and M. Rozenblit. Implementation and Performance Analysis of SNMP on a TLS/TCP Base. In Proc. 7th IFIP/IEEE International Symposium on Integrated Network Management, pages 453-466, Seattle, May 2001.
- [8] R. Frye. D. Levi. S. Routhier. and B. Wiinen. Coexistence between

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References

- Be consistent!
 - Example: http://www.tvu.ac.uk/lrs/guides/harvard.html
 - Bibtex can be useful (Google Scholar)
- If possible, avoid referencing Internet-drafts
- Reference the sources, not derived work
 - RFC, and not a book by some author
 - RFC of latest standard, not a historic version
- Do not create obvious references
 - No need to reference http://www.ietf.org/





1) Writing your paper

- Writing style
- Paper structure
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Common mistakes

Violation of IEEE Policy on Self Plagiarism:
 If authors have used their own previously published work(s) as a basis for a new submission, they are required to cite the previous work(s) and very briefly indicate how the new submission offers substantial novel contributions beyond those of the previously



published work(s).



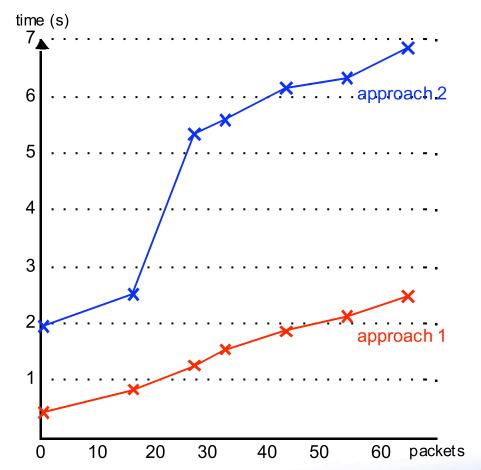
Common mistakes

- Paper does not follow the author's guidelines
- Text contains errors:
 - Ask English native speaker
 - Use MS-Word (Framemaker, ...): grammar & spelling check
- Figures are hardly readable:
 - Take care with PDF: press versus screen quality
 - Before submission, print paper on black & white paper
- Too much information is put into the paper
 - Less is more!
 - "I would have sent you less if I had had time" (Kurose, Pascal, Goethe, Cicero, ...)
 - "Not that the story need be long, but it will take a long while to make it short." Thoreau





Example Performance comparison between two approaches

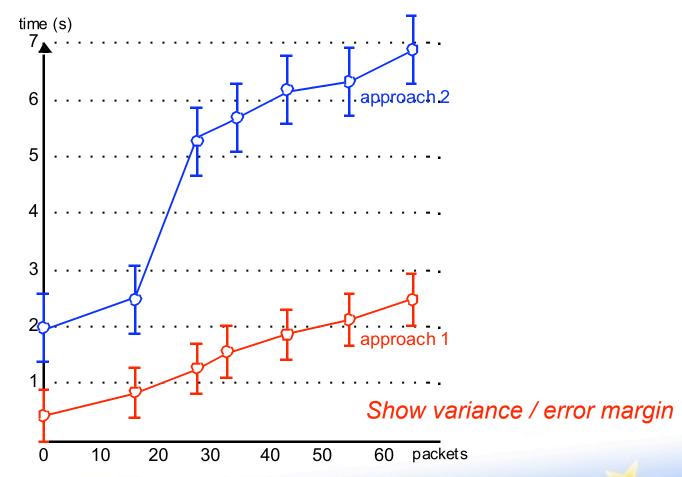






Example

Performance comparison between two approaches







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Where to submit

Workshops and Summer Schools

- E2EMON, BDIM, BcN, FeBID, MUCS, ACNM, MACE, EVGM (Co-located with IM / NOMS / Manweek)
- AIMS Student workshop
- EUNICE Summer School

Conference

- IM / NOMS
- Manweek: DSOM, MMNS, IPOM

Journal

- IEEE Communications Magazine: Series on N&S Management
- IEEE Transactions on N&S Management
- JNSM
- International Journal of Network management
- IEEE Network, ToN, JSAC, ...





Where to submit

- IFIP 6.6 / Emanics / Simpleweb RSS feed
 - http://www.simpleweb.org/cfp.rss
- IEEE CNOM list
 - http://cnom.lrg.ufsc.br/
- IEEE ComSoc list
 - http://www.comsoc.org/confs/index.html
- TCCC mailing list
 - tccc@cs.columbia.edu
 - https://lists.cs.columbia.edu/mailman/listinfo/tccc
- IFIP Lists

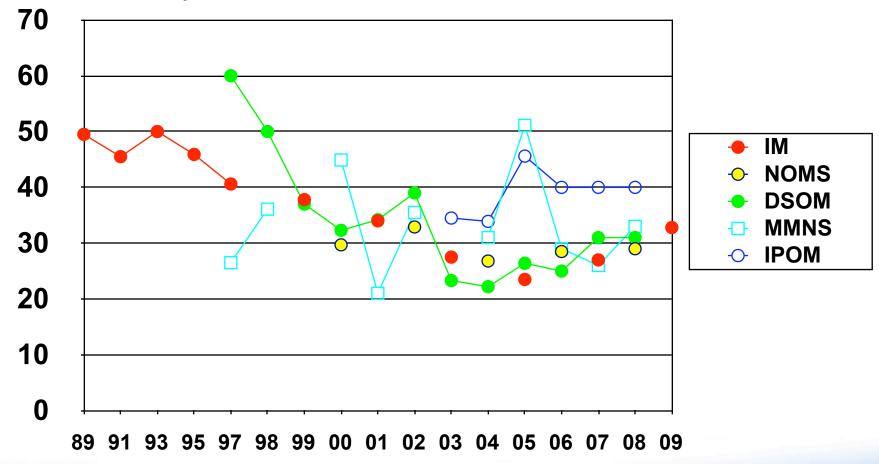
Information Society

- http://www.ifip.or.at/cal_even.htm
- IFIP TC6 list
 - <u>http://ifip.informatik.uni-hamburg.de/ifip/tc/6/events</u>



Acceptance rate conferences

source: http://www.cs.ucsb.edu/~almeroth/conf/stats/





Lists of conference publications / citations

Libra:

- Microsoft Research Asia
- http://libra.msra.cn/conf_category_24.htm
- Has similar list for Journals
- Has also author ranking



LIBRA

	Publications	Citations	Citation / publication
INFOCOM	4062	54217	13,35
IM	451	950	2,11
DSOM	205	340	1,66
ICC	1378	1871	1,36
MMNS	252	160	0,63
Globecom	1006	111	0,11
IPOM	76	6	0,08
APNOMS	230	4	0,02
AIMS	60	1	0,02



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How many papers does a conference TPC member typically have to review?

- a) 2 papers
- b) 4 papers
- c) 8 papers
- d) 16 papers
- e) 32 papers





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- d) 16 papers
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How much time does a conference TPC member typically spend per paper?

- a) 10 minutes
- b) 30 minutes
- c) 2 hours
- d) 6 hours
- e) 1,5 day
- f) 4 days





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How much time does an experienced Transactions reviewer typically spend per paper?

- a) 10 minutes
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New ideas on ABC

Also Pract, Roger Schleideller, Mark Tarrart, Serb Schiggert, Resource & Moort

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V. Conclusions

The experienced reviewer

Reads abstract, intro and conclusions

Scans references

Has an initial idea about acceptance / rejection

Reads the remaining chapters to find evidence





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The TPC meeting

Papers are ranked by the TPC chairs

Submission systems have automatic facilities for this

Assume 200 papers have been submitted

- Top 10 is accepted without discussion
- Worst 90 are rejected without discussion
- 100 "grey" papers remain to be discussed
- 3 minutes per paper remains





The TPC meeting

How are papers discussed?

- TPC members from the same institute as the authors leave the room
- Discussion started by TPC member who reviewed the paper
- All TPC members can see all reviews
 - they scan reviews for consistency
 - they scan confidential comments to the TPC
 - they scan rebuttal





The rebuttal - Example 1

Assume:

- reviewer 1 and 2 say: accept after minor changes
- reviewer 3 says: reject

Rebuttal 1:

We would like to thank the first reviewer for doing this great review. His comments will surely allow us to further into the the paper. In particular we will include the believences to be papers he has mentioned. Also we would like to thank the second reviewer for his useful comments we will use these comments to correct the typo's. Finally we would like to thank reviewer 3, but would also like to ask him for classification. We do not really understand the domments with respect to figure 6, since we did not include such sicture. Also his comments on section 2 are a bit unclear, since we did not propose an architecture.



The rebuttal - Example 2

Assume:

- reviewer 1 and 2 say: accept after minor changes
- reviewer 3 says: reject

Rebuttal 2:

We believe reviewer 3 made a serious mistake, and entered the comments for another paper instead of ours. For example, the review refers to figure 6, whereas our paper does not include a figure 6. Also the review refers to an architecture in section 2, whereas our paper does not discuss any architecture.





SUMMARY

- Put yourself in the position of the reader
- Realize reviewers have limited time
- Your introduction and conclusions are vital
- Clearly indicate the contribution of your paper
- Consider formulating research questions
- Be consistent / show you've invested time





QUESTIONS?



