How to write a paper

B-Referaat

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Overview

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

Overview

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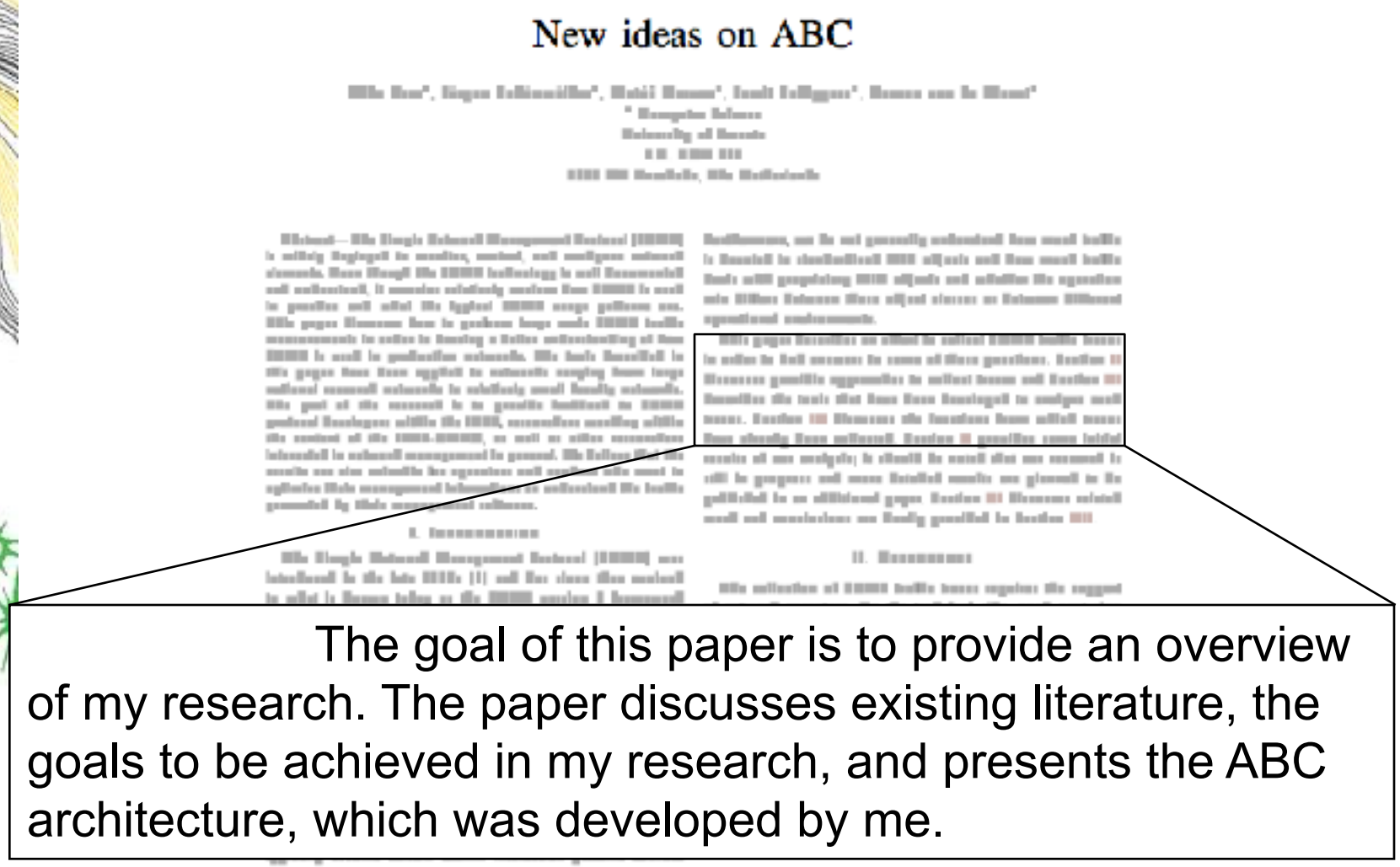
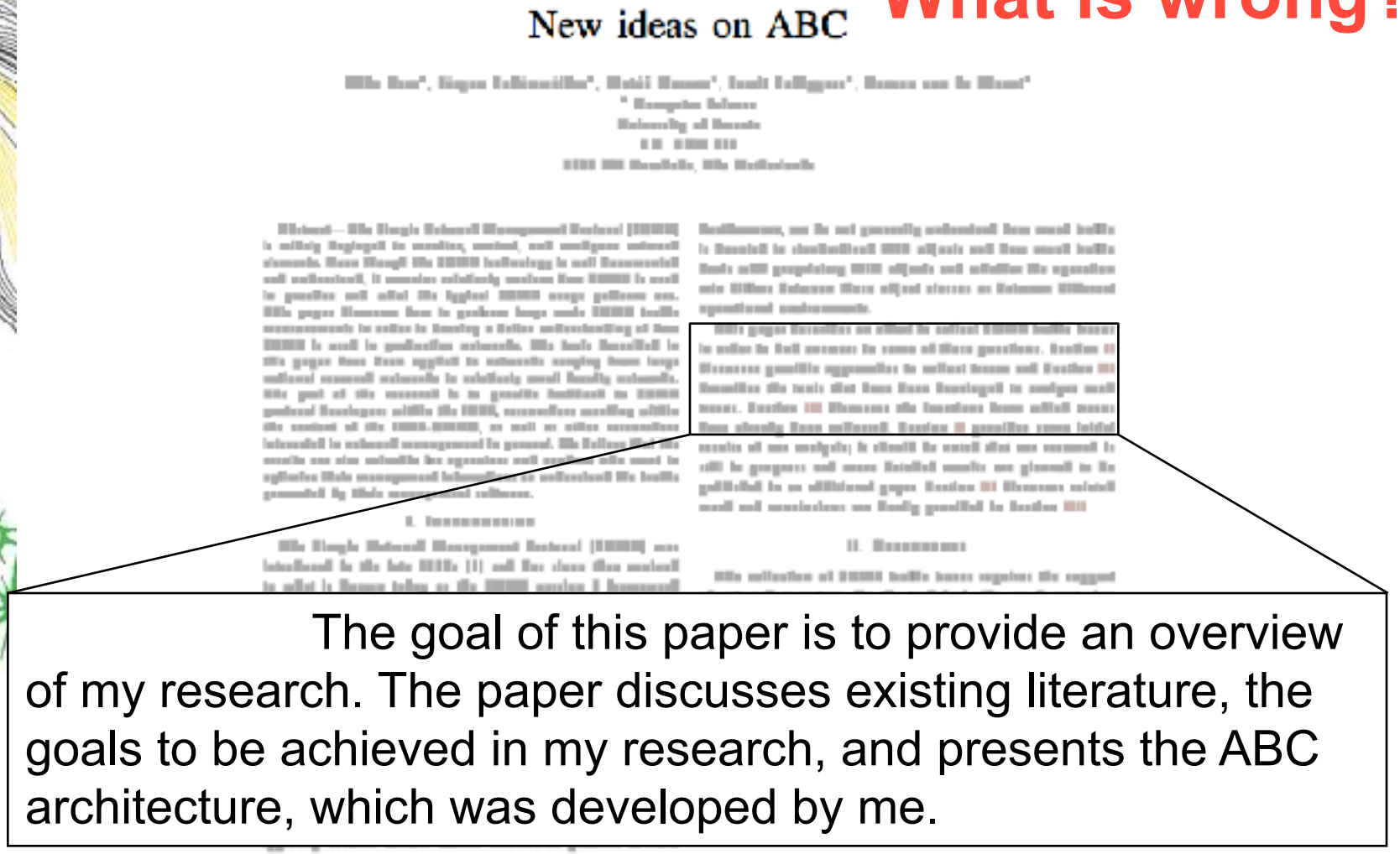


The goal of this paper is to provide an overview of my research. The paper discusses existing literature, the goals to be achieved in my research, and presents the ABC architecture, which was developed by me.

What is wrong?



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Writing style

Writing style

Why would someone be interested in your work?

Writing style

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It is YOUR task to make the reader interested!

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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?

Writing style

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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

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- Triggers the reader to think first

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- Forces the author to formulate the key contributions in a precise way

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- Allows meaningful conclusions

New ideas on ABC

[redacted]

[redacted]

I. Introduction

[redacted]

- [redacted]
- [redacted]
- [redacted]

[redacted]

II. Related work

[redacted]

New ideas on ABC

[redacted]

The goal of this paper is to investigate how IPv6 is used in practice. In particular, the following questions will be investigated:

1. What is the share of IPv6 traffic in total IP traffic?
2. Is IPv6 usage growing faster than average?
3. Is IPv6 primarily used for research purposes, or is it also used for commercial purposes?

I. Introduction

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

Research questions

contribution

approach

Context / motivation

structure

Specific problem

V. Conclusions

General conclusion

Answer research question 1

Answer research question 2

Answer research question 3

Further work

Between intro and conclusions ...

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: State of the Art
- Chapter 3: New architecture
- Chapter 4: Implementation
- Chapter 5: Measurements
- Chapter 6: Conclusions
- References

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Possible structure:

- Chapter 1: Introduction
- Chapter 2: Requirements
- Chapter 3: Existing solutions
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Possible requirements:
- High performance
- Scalable
- ...

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Possible requirements:
- High performance
- Scalable
- ...

- Demonstrate existing solutions do not satisfy the requirements
- Explain small fixes are impossible

➡ discussion of literature

Design paper

Possible structure:

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Possible requirements:
- High performance
- Scalable
- ...

- Demonstrate existing solutions do not satisfy the requirements
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➡ 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
- Chapter 4: Paper 3
- Chapter 5: Paper 4
- Chapter 6: Conclusions
- References

Survey paper

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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
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Explain how you found literature
- Web search (scholar, ...)
- Web of Science / Scopus
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- General approaches
- Approaches specific for our context

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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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References

- Be consistent!
  - Example: http://www.tvu.ac.uk/lrs/guides/harvard.html
  - Bibtex can be useful (Google Scholar)
- If possible, avoid referencing work in progress
- 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/

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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

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- Paper does not follow the author's guidelines

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- Text contains errors:
  - Ask English native speaker
  - Use MS-Word (Pages, OpenOffice...): grammar & spelling check

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- Figures are hardly readable:
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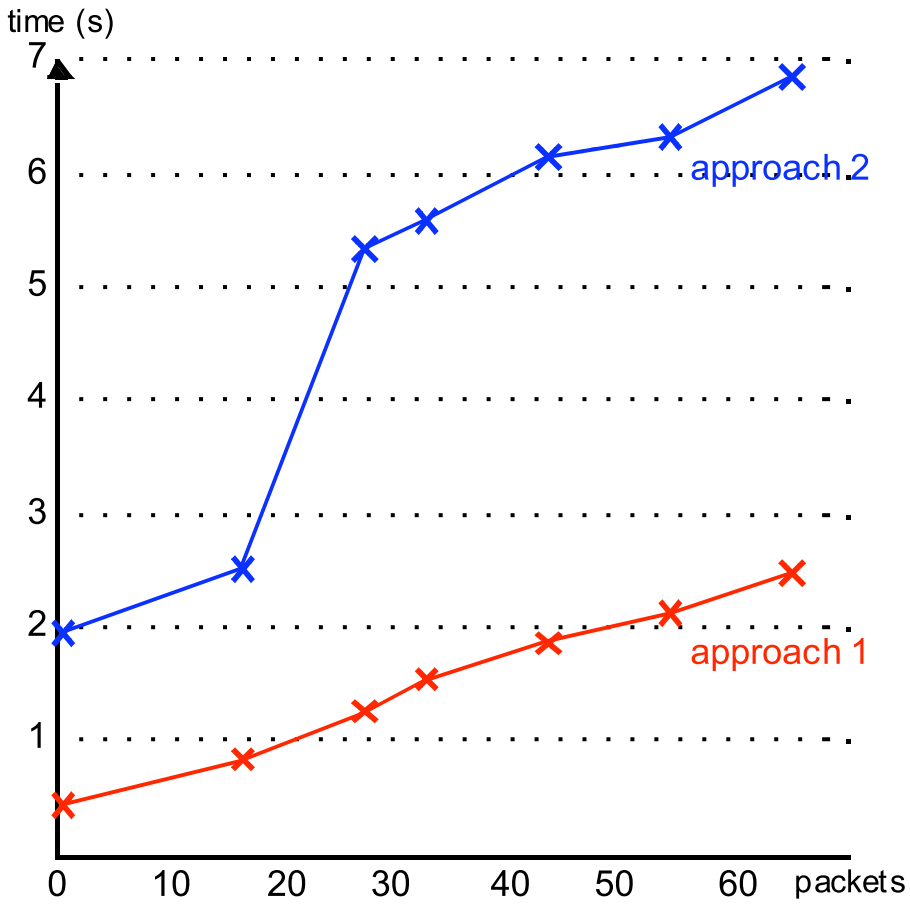
    - Before submission, print paper on black & white paper
- Too much information is put into the paper
  - Less is more!
  - ***"I would have sent you less if I had had time"***
    (Kurose, Pascal, Goethe, Cicero, ...)
  - *"Not that the story need be long, but it will take a long while to make it short." Thoreau*

Example
Performance comparison



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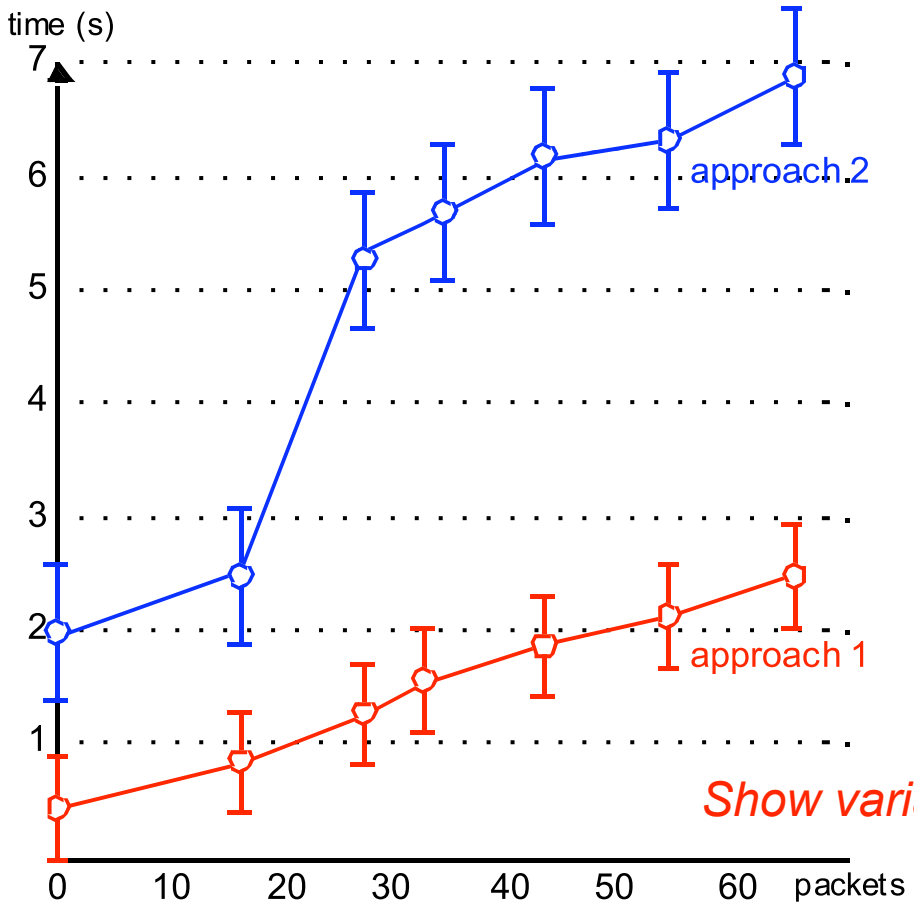

Show variance / error margin

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Where to submit

Where to submit

- Workshops and Summer Schools
  - Sometimes to discuss “Work in Progress”
  - Sometimes no official publisher (thus no ISBN number)
  - Often no strong review process
  - Considered as “lowest quality”

Where to submit

- Workshops and Summer Schools
  - Sometimes to discuss “Work in Progress”
  - Sometimes no official publisher (thus no ISBN number)
  - Often no strong review process
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- Conferences
  - Officially published
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  - Considered as “medium quality”

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- Workshops and Summer Schools
  - Sometimes to discuss “Work in Progress”
  - Sometimes no official publisher (thus no ISBN number)
  - Often no strong review process
  - Considered as “lowest quality”
- Conferences
  - Officially published
  - Strong review process
  - Considered as “medium quality”
- Journal / Transactions
  - Officially published (may be included in ISI, impact factor)
  - Strong review process
  - Considered as “highest quality”

Overview

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

The reviewer

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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The reviewer

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 a conference TPC member typically spend per paper?

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The reviewer

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

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

The reviewer

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

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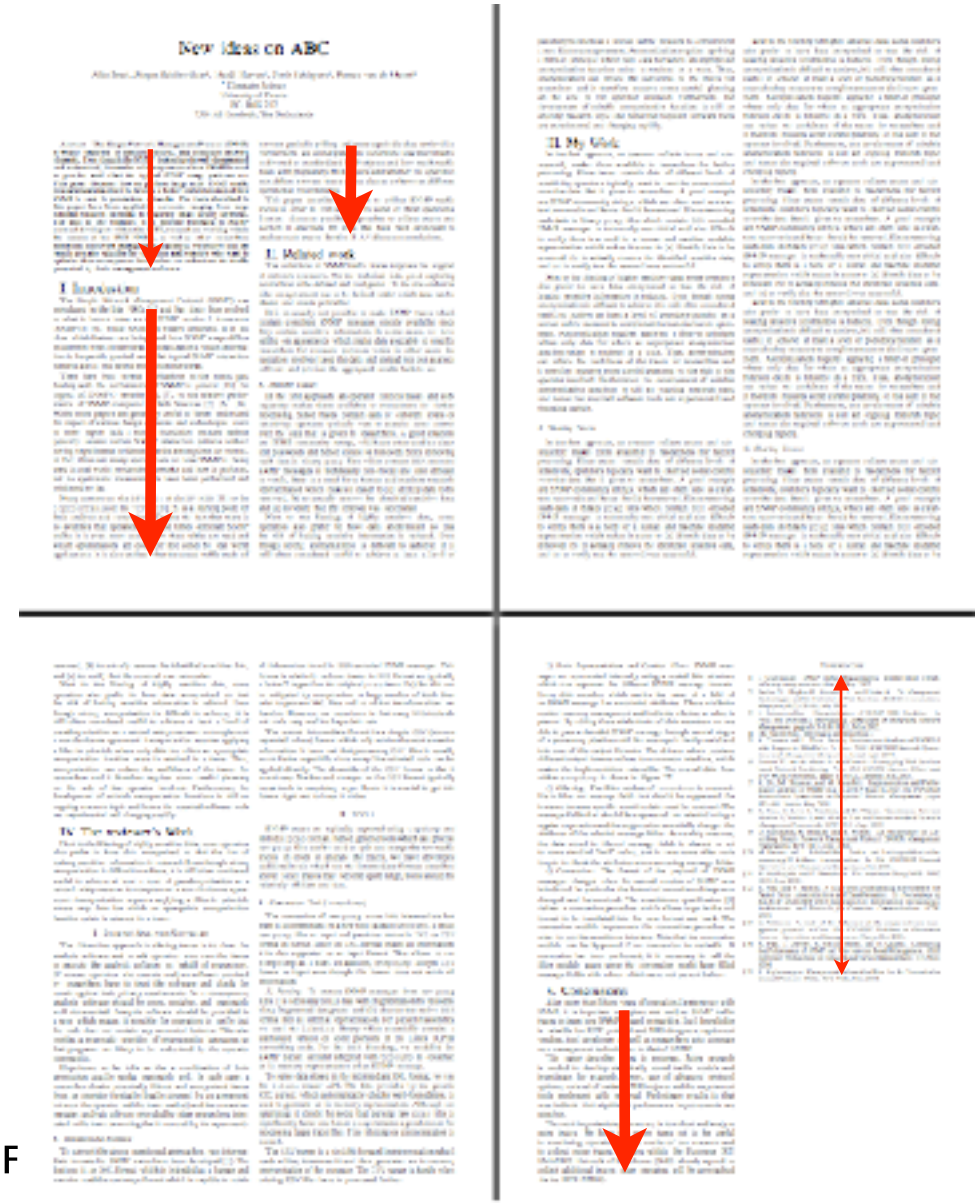
The reviewer



The experienced reviewer

- Reads abstract, intro and conclusions
- Scans references
- Has an initial idea about acceptance / rejection
- Reads the remaining chapters to “find evidence”

SUMMARY

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- Put yourself in the position of the reader
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- 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?