

Phương pháp nghiên cứu khoa học

Bài báo khoa học

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Nội dung¹

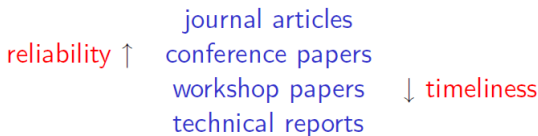
- 1 Đọc bài báo nghiên cứu
- 2 Viết bài báo khoa học

1 Đọc bài báo nghiên cứu

2 Viết bài báo khoa học

Bài báo nghiên cứu

Frontiers of the world's body of knowledge are not documented in text books, but in



Độc bài báo nghiên cứu

- Maintain a database of all the books and papers you read:
at least include title, author, place of publication, storage location
- Preferably you should also keep a record of the answers to some or all of the following questions:
 - What is the main topic of the article?
 - What was/were the main issue(s) the author said they want to discuss?
 - Why did the author claim it was important?
 - How does the work build on other's work, in the author's opinion?
 - What simplifying assumptions does the author claim to be making?
 - What did the author do?
 - How did the author claim they were going to evaluate their work and compare it to others?
 - What did the author say were the limitations of their research?
 - What did the author say were the important directions for future research?



Đánh giá bài báo

- Whenever you read a research paper, you should try to evaluate at the same time.
- Try to answer the following questions:
 - ① Is the topic of the paper sufficiently interesting (for you personally or in general)?
 - ② Did the author miss important earlier work?
 - ③ Are the evaluation methods adequate?
 - ④ Are the theorems and proofs correct?
 - ⑤ Are arguments convincing?
 - ⑥ Does the author mention directions for future research that interest you?
- Given the answers to these questions for a number of research papers, you should be able to construct a research proposal by considering how you could improve the work presented in them

1 Đọc bài báo nghiên cứu

2 Viết bài báo khoa học

Cấu trúc bài báo khoa học

- ❶ Title
- ❷ List of authors (and their contact details)
- ❸ Abstract
- ❹ Introduction
- ❺ Related Work (either part of or following introduction or before summary).
- ❻ Outline of the rest of the paper
- ❼ Body of the paper
- ❽ Summary and Future Work (often repeats the main result)
- ❾ Acknowledgements
- ❿ List of references

- Top-down design: Start with an outline, then fill in the details
- Inside-out writing: Fill in the body of the paper first, then write introduction, related work, conclusion; finally, write the abstract
- Diagrams/Tables: Are all diagrams and tables readable? Can they be understood?
- Dependency analysis: Is the paper self-contained and are notions presented in the correct order?
- Factuality: Make sure everything stated in the paper is factually correct
- Interpretability: For each sentence check whether it could be misread; if so, try to fix it
- Optimisation: Remove unnecessary parts, shorten exposition
- Readability: Does it read well? Are all parts interconnected?

Bài tập

- Tự tìm hiểu cách viết một tài liệu tham khảo (các thông tin cần có cho mỗi tài liệu, tùy thuộc loại tài liệu), viết danh sách tài liệu tham khảo
- Tìm và viết ra giấy danh sách tài liệu tham khảo dùng cho đề tài tiểu luận khoa học của bạn, chú ý viết đúng quy cách đã tìm hiểu ở mục trên.