

READING A COMPUTER SCIENCE RESEARCH PAPER（读一篇 计算机科学研究论 文）

three tasks of the reading process（阅读过程的三个任务）

comprehension（理解）

- What is the research problem the paper attempts to address?（论文的研究问题是什么？）
- What are the claimed contributions of paper?（论文声称的贡献是什么？）
- How do the authors substantiate their claims?（作者怎么证实他们的主张？）
- What are the conclusions?（结论是什么？）

Abstract is to outline the answer to this four questions.The paper is an elaboration of the abstract.（摘要概述了这四个问题的答案，论文是摘要的阐述。）

evaluation（评价）

- Is the research problem significant?（研究的问题是否重要？）
- Are the contributions significant?（研究的贡献大吗？）
- Are the claims valid?（主张是否有效？）

Learn to be fair: attend to both the strengths and weakness of the work.（学会公平：兼顾论文的优势和劣势。）

two caveats（两个注意事项）

Evaluating the significance of the research problem and the contributions of the paper usually requires a comprehensive understanding of the research field as a whole.（评价研究问题的重要性和论文的贡献通常要求对研究领域有全面的了解。）

synthesis（综合）

When you read a research paper, you should see it as an opportunity for you to come up with new research projects.（你应该把阅读一篇研究论文看作是一个让你提出新的研究项目的机会。）

a list of questions that help you:What is the crux of the research problem?What are some alternative approaches to address the research problem? Is there an alternative way to substantiate the claim of the authors? What is a good argument against the case made by the authors? Can the research results be strengthened? Can the research results be applied to another context? What are the open problems raised by this work? If you were to do the research, how would you do differently?（一些帮助你的问题：研究问题的关键是什么？解决研究问题的替代方法是什么？有没有其他方法来证明主张？反对作者提出的案例的好论据是什么？研究成果能加强吗？研究成果能用于其他背景下吗？这项工作提出了哪些未解决的问题？如果你来研究，你会做什么不同的事？）

the genre of paper review（论文 评论的类型）

the summary-critique-synthesis structure（总结-批判-综合结构）

summary（总结）

- motivation（动机）
- contribute（贡献）
- methodology and/or argument（方法论和/或论证）
- conclusion（结论）

use you own words to summarize the paper（用自己的语言来总结论文）

critique（批判）

- Pick two to three points you want to argue with the authors.（选择两到三点你想与作者讨论的。）
- two caveats（两个注意事项）

Do not repeat the Limitations section of the paper.（不要重复论文的限制部分。）

Be specific in your choice of words.（用词得体的。）

synthesis（综合）

Propose one or two ways in which the research work can be further developed.（提出一到两种进一步研究的方法。）

an alternative review format（另一种评论 格式）

- What is the purpose of the work?（论文的目的是什么？）
- How do the authors achieve this purpose? Why is this particular approach adopted?（作者是怎么达到这个目的的？为什么要采用这种特殊的方法？）
- Do you think the purpose has been achieved?（你认为他的目的达到了吗？）
- What insights have you gained from reading this work?（阅读完之后你有什么感悟？）

reading like a pro（像专业人生 一样阅读）

The referees who review the submitted paper will read the paper in more or less the same way as we outlined in Sections 1 and 2, and then they will write up a referee report in a style similar to the paper review discussed in Section 4, except for the synthesis section.（审阅提交的论文的审稿人将或多或少以相同的方式阅读论文我们在第1节和第2节中进行了概述，然后他们会以类似第4节中讨论的论文审查方式撰写裁判报告，合成部分除外。）

Purpose: You will gain tremendous insight into the paper publishing process, as well as the implicit value system of the academic world.（你将深入了解论文发表过程以及学术界的隐性价值体系。）