Reviewing research paper

Lei Lai and Siqi Wang CS 697: Graduate Initiation 02/19/2020

Topics for Discussions

- What are the tasks of the referee?
- How to read / evaluate a paper?
- How to write a referee report?

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- Have you ever been a referee?
- What do you think the tasks of the referee?
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Tasks:

- Evaluating the interests of the results.
- Summarizing the papers strengths and weaknesses.
- Articulating the reasons for their recommendations.

How to read / evaluate a paper?

- What is the Purpose of the Paper?
- Is This Paper appropriate fit for the venue?
- Is the goal of this paper significant?
- Is the method of approach valid?
- Is the actual execution of the research correct?
- Are the correct conclusions being drawn from the results?

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Reading a paper for the purpose of refereeing is closer to what a teacher or professor does in grading a paper than what a scientist or engineer does in reading a published paper.



How to write a referee report?

- Overall recommendation: positive / negative , how good is it
 - 1. Major results very significant. (fewer than 1% of all papers written.)
 - 2. Good, solid, interesting work; a definite contribution. (fewer than 10% of the papers you will see.)
 - 3. Minor, but positive, contribution to knowledge. (perhaps 10% to 30% of the papers submitted.)
 - 4. Elegant and technically correct but useless. This category includes sophisticated analyses of flying pigs, as mentioned above.
 - 5. Neither elegant nor useful, but not actually wrong.
 - 6. Wrong and misleading.
 - 7. The paper is so badly written that a technical evaluation is impossible.



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- summary of the paper's work



summarize the point of the paper in 1-5 sentences, both for the use of the editor, and to ensure that the referee actually understand the point of the paper.

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• Evaluation in details:

the goal of the work both with respect to its validity and to its significance.

the quality of the work (methodology, techniques, accuracy, errors, presentation).

How peer review affects the progress of a field



Talk by Mihir Bellare 2014: IACR Distinguished Lecture: Caught in Between Theory and Practice

References

- 1. The Task of the Referee
- 2. <u>Talk by Mihir Bellare 2014: IACR Distinguished Lecture: Caught in Between</u> <u>Theory and Practice</u>