

Absurdly short intro to reviewing a paper

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Why (the purpose of review)

- **paper:** improve, correct shortcomings, help finalize for publishing
- **author:** get feedback from (possibly better informed) peer(s)
- **publisher:** weed out irrelevant and bad papers
- **community:** keep high enough standards of research and published results

- I.e. ensure (at least some level of) quality of published knowledge

How #1 (reviewing a paper)

- first read to understand, second read to review
- scribble on paper / note in PDF => plain text, references to sections/parag's
- does paper **title** correspond to (represent) whole content?
- does **abstract** cover context-problem-approach-solution-validation?
- is **structure** of whole text logical (from preliminaries to conclusions)?
- is **presentation** clear, does it help understanding (wording, grammar and usage, style, headings, figures and tables, references)?
- does author correctly **reference** (and discuss) related works?
- are there no errors in the **technical** aspects (assumptions, methodology, equations and proofs, experiment design and execution, validation and discussion of results, conclusions drawn, ...)?

How #2 (academic management of reviews)

- single blind (authors known to reviewer, not vice versa)
- double blind (author names and references hidden, reviewers hidden)
- submissions = set of papers in
- programme committee = set of reviewers
- assignment => M:N, usually 2-3 reviewers : 1 paper
- M recommendations (reviewers) => 1 decision (PC/track chair)
 - journal: accept / minor review / major review / reject
 - conference: strong accept / weak accept / borderline / weak reject / strong reject
- paper modifications (journal: checked, conference: expected)
- “camera ready” paper version

Some sources of help and information

- Types of peer review: <https://www.elsevier.com/reviewer/what-is-peer-review>
- How to give good feedback as reviewer:
<https://www.elsevier.com/connect/theyve-got-it-all-wrong-how-to-give-constructive-feedback-in-peer-review>
- Bad review ethic: <https://www.elsevier.com/connect/when-reviewing-goes-wrong-the-ugly-side-of-peer-review>