Overview

Plan for keeping up with literature

From Mert R Sabuncu Tweet - keeping up with literature (link)
Aligns with How to Read a Paper by S Keshav (link)

In general, it's good to have a system for each project or topic.

- Have dedicated time for finding papers (1 hour per day)
    - Google Scholar - follow citations and cited by
    - Twitter
- 0. Categorize (Level 0 - 1 min per paper))
Categorize papers based on title and abstract (high, medium, low)
    - High = super relevant for my project/work
    - Categorize e.g. 10 papers per day (10 mins)
- 1. Basic Understanding (Level 1 - 10 mins per paper) - start with high priority
    - Get basic understanding of algorithm/model, problem, and data
    - Understand inputs, outputs, some modeling details, literature context
    - Aim for 3 papers per day
    - Take notes - 3-4 sentences per paper
    - Read title, abstract, introduction, conclusion, and glance at references
    - Things to assess
        - 1. Category: What type of paper is this? A measurement paper? An analysis of an existing system? A description of a research prototype?
        - 2. Context: Which other papers is it related to? Which theoretical bases were used to analyze the problem?
        - 3. Correctness: Do the assumptions appear to be valid?
        - 4. Contributions: What are the paper's main contributions?
        - 5. Clarity: Is the paper well written?
- 2. Good Understanding (Level 2)
    - Get a good understanding of the theoretical details
- 3. Replication or Baselining (Level 3)
    - Implement the algorithm
    - Derive the theoretical results
    - Achieve the empirical results
    - 1-2 per month

Reviewing Individual Paper

From Vinay Prasad Tweet - focused on medical practice (link)

Before your start

- What question am I trying to answer?
  - Should I alter my behavior?
  - Should I use this technique in my research?
  - Should I look into this finding further?
  - Is this really how the world works?
- Who has the burden of proof?
  - Is it on the authors to convince me? Or am I going to use this technique until proven otherwise?
- What other studies/techniques are out there?
  - Are they better or worse?
  - Why am I prioritizing this paper?

While reading

- Does the data presented support the inferences made?
  - Is there any confounding?
- Are there errors?
  - If so, do these errors matter?

After you finish

References

- Vinay Prasad Tweet - focused on medical practice ([link](#))
- Mert R Sabuncu Tweet - keeping up with literature ([link](#))
- S Keshav - how to read a paper ([link](#))