

Research Questions

- RQ4: *How can learning to rank be applied to assist reviewers prioritise citations in the screening phase?*
- Existing research has investigated screening prioritisation (ordering relevant citations higher in the result set)
- No research has considered learning to rank as a method for screening prioritisation as of date
- What types of features should be used? What models perform the best?

Summary

EVALUATION

RQ1 — Has an IR approach to evaluation been performed for this task and is it sufficient?

How to perform IR evaluation within the context of systematic review search.

IMPROVING QUERIES

RQ2 — How to measure and improve the effectiveness of Boolean queries in the context of systematic reviews?

How an information specialist formulates a query to retrieve medical study citations.

IMPROVING RETRIEVAL

RQ3 — How can retrieval be improved in order to reduce the workload in the screening phase?

How an IR system uses the queries to search studies.

IMPLEMENTING RANKING

RQ4 — How can ranking be applied to assist reviewers prioritise citations in the screening phase?

How to rank studies from most relevant to least.