

T1: Construction of Test Collection

- Existing test collections are not sufficient
- New test collections for performing IR evaluation for systematic review search is necessary
- Extract queries and relevance assessments (included and excluded studies) from existing systematic reviews
- Transform these queries into appropriate query languages for other search systems (i.e. Elasticsearch queries)

T2: Query Formulation

- Investigate query generation/transformation approaches for Boolean queries
 - Query expansion/reduction
 - Query rewriting
- Apply domain specific approaches to queries from systematic reviews
- Improve the query formulation process by providing methods to suggest better queries prior to searching