

# Benchmarks for Keyword-based Search

- Benchmark
  - Use cases
    - Dataset
    - Query
  - Expected Result
  - Metrics
- Fact: Too many benchmark efforts

# Benchmarks for Keyword-based Search

- Repository for benchmarks
  - Different scenarios benchmarks
  - Services
    - Analysis of results by other researchers
    - Quality Information / Fit of use for specific tasks
      - reputation of the datasets
      - Coverage / Dimensions
      - Metrics
  - Have Query Functionality
  - References to uses/applications of the benchmarks
  - Benchmark Spaces
- Benchmark as a service
  - “We run it for you” ..
    - Or at least we partially do the job

# Benchmarks for Keyword-based Search

- Dynamic Datasets
  - Streams
  - Datasets cannot be old
  - Coordinating Support Actions
    - For research and Industry
      - Different requirements
    - Standardized procedures for benchmark specification
- Repeatability

# Benchmarks for Keyword-based Search

- Global and Open Standards
  - Extendable
    - For tasks that have no benchmarks
  - Aggregation of Existing Standards
    - e.g. Berlin Benchmark, INEX, TREC, etc.
  - Crowdsourcing + Experts
  - Format of the data
    - Expert & Industry requirements
    - Linked-Open-Data Formats
  - User testing to set the base lines

# Benchmarks for Keyword-based Search

- Leverage Existing Initiatives
- Multilingualism
- Real user behavior
- The value of the queries in a dataset in terms of information needs of the user (same level of details)

# Benchmarks for Keyword-based Search

- Visualization
- Ability to create Metadata/Annotations
- Coarse and Fine Grained datasets for inexact matching
- Complex Scenarios from commercial application
- Interoperability among benchmarks