

# CLEF 2024 SimpleText Track: Improving Access to Scientific Texts for Everyone

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# Motivation



- Improving Access to Scientific Texts for Everyone
  - Everyone agrees on the importance of objective scientific information
  - But scientific documents are inherently complex...
- Can we improve accessibility for everyone?
  - Experts
  - Students
  - Lay persons
- Useful for:
  - Scientific communication
  - Science journalism
  - Political communication
  - Education

# Shared Tasks 2024



- **Task 1: Content Selection:** *Retrieving passages to include in a simplified summary*
  - topical relevance
  - + text complexity scores (e.g., readability)
  - + authoritativeness scores (e.g., bibliometrics and altmetrics)
- **Task 2: Complexity Spotting:** *Identifying and explaining difficult concepts*
  - difficult term detection *and* explanation
  - + usefulness of the provided explanation with regard to a query
  - + difficulty of the provided explanation
- **Task 3: Text Simplification:** *Simplify Scientific Text*
  - expand the training and automatic evaluation data
  - + manual evaluation of information distortion & text complexity
  - + both sentence and passage level simplification
- **Task 4: SOTA?** *Tracking the State-of-the-Art in Scholarly Publications*
  - see next slide.

# Task 4: SOTA?



- **Background:** **Leaderboards** are like scoreboards that display top AI model results for specific tasks, datasets, and metrics. Traditionally community-curated, as seen on paperswithcode.com, text mining could speed up their creation.
- **SOTA Task:** Participants develop systems that recognize if an incoming AI paper reports **model performances on benchmark datasets**. If it does, the model should extract all related (**Task**, **Dataset**, **Metric**, **Score**) tuples that are reported in the work.
- **Evaluation:** standard F1 metrics
  - **Few-shot.** Test dataset includes (TDMS)'s seen in training.
  - **Zero-shot.** The test dataset includes (TDMS) with unseen T, D, or M.



# *Please join the SimpleText Track*

Fully funded 3-years PhD available!

Website : <https://simpletext-project.com>

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