A tool to help identify a suitable OA journal

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Scenario 1/3

HAPPY RESEARCHER HAS NICE ARTICLE FOR THE SCIENCE WORLD...

Graphic: Anett Hoppe
Scenario 2/3

AND LOTS OF JOURNALS TO PUBLISH IN

Graphic: Anett Hoppe
Scenario 3/3

BISON TO THE RESCUE!

1. (medium-size journal)
2. big journal
3. small journal

Graphic: Anett Hoppe
Draft of input screen

1. Add Title
   Switch language (de/en)

2. Add Abstract

3. Add References/cited works (ideally with DOIs)
   Tooltip: Allowed formats

Submit
Draft of results screen

Filter
- APC < x EUR
- Plan S compatible
- Mirror Journal?
- License
- Language
- Peer Review type
- DOI

Best matches - similar articles appeared in the following OA journals:

Journal #1
- 80% similarity
- [link to journal fact sheet w/ URL]

Journal #2
- 82% similarity
- [link to journal fact sheet w/ URL]

Journal #3
- 74% similarity
- [link to journal fact sheet w/ URL]

Adjust input:
- Title
- Abstract
- References
- Keywords

Sort
best match due to...
- Keywords
- Title
- Abstract
- References
Methods 1/2

Processing user inputs – similarity analysis combining two methods:

1. Machine-learning method for **semantic similarity** based on DOAJ’s article metadata:
   • approx. 17,000 journals (curated)
   • approx. 6,600,000 articles
   • JSON format
   • import to Elasticsearch

2. **Bibliometric similarity** based on OpenCitations’ COCI:
   • approx. 1,200,000,000 citations
   • DOI ↔ DOI
   • import to PostgreSQL
Methods 2/2

• Display and refinement of results:
  • Relevance/similarity ranking/measure
  • Filters
  • Journal fact sheets (DOAJ journal data)

• Regular updating schedule

• Support of different languages (?)

• API for advanced customization, local implementation

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„Bibliometric and Semantic Open Access Recommender Network“

- Development of an open source recommendation tool for finding suitable, high-quality OA journals
- Carried out by TIB & SLUB
- Partners: DOAJ, OpenCitations
- Funded by the German Federal Ministry of Research and Education

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Project schedule and milestones

Community participation

Requirements analysis

Software development / testing phase

Sustainability concept

1. B!SON workshop

2nd quarter 2021

2nd half-year 2021

B!SON beta

1st half-year 2022

2nd half-year 2022

B!SON live

1st quarter 2023
Closing remarks

• B!SON will pose an open alternative to proprietary offers

• Libraries’ role as point of reference for all issues regarding publishing within their institution

• B!SON "on the shoulders of giants“ – building upon and contributing to the ecosystem of open scientific infrastructures

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Thank you!
Questions? Feedback?
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