

Institutional Scientific Output and Citation Coverage in OpenAlex: The Case of the Czech Technical University in Prague

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The Czech Technical University in Prague (ROR ID <https://ror.org/03kqpb082>; CTU in the sequel) runs its in-house built institutional CRIS called V3S (<https://doi.org/10.1016/j.procs.2019.01.077>) which covers the institution's scholarly output since the 1990-ies. CTU relies on the Web of Science and Scopus citation databases for signaling new publications of its authors and for tracking citations. An earlier (2019) attempt to evaluate the level of coverage of citations in an open information source (<https://doi.org/10.2478/jdis-2020-0037>) showed an unsatisfactory level of coverage.

OpenAlex is an open, established source of information on scholarly publications with a global coverage; it is the successor of Microsoft Academic Graph. It integrates, among other sources, also the **Crossref** metadata of scholarly publications and their references, wherefrom it derives citation links.

We will study the following questions:

1. To what extent can the publications from the institutional CRIS contents be matched in OpenAlex?
2. How many publications attributed in OpenAlex to the CTU are not represented in the institutional CRIS?
3. To what extent citations of the institution's scholarly output that are tracked in the CRIS are matched in citations in OpenAlex?
4. Does OpenAlex offer any citations on top of those from the previous question?

Method: We plan to load the CRIS and the appropriate section of OpenAlex (selected either from API calls or the data dump) in a single database and perform matching through identifiers and/or approximate matches of string metadata fields.

Motivation: Following the commitments of the Barcelona Declaration on Open Research Information (<https://barcelona-declaration.org/>), we want to understand and assess the difference the switch to using an open research information source is going to make. The format of a local study based on an institutional CRIS allows for a finer attribution of the differences to disciplines.

Keywords:

OpenAlex; institutional CRIS; coverage; citation