

## **BSc/MSc thesis project: Missing citation detection**

University Academic staff has been facing an increasing number of evaluations in the past few years. These research evaluations are based on output performance and use indicators like “number of publications”, “number of citations” or “h-index”. Sources used for these evaluations are either institutional publication databases or citation databases like Scopus or Web of Science. The two latter databases are the primary source for national and institutional research evaluations for bibliometric disciplines. In this project, the focus will be on Scopus, as the Free University of Bozen-Bolzano is well represented in this database.

Scopus, launched by Elsevier in 2004, is a large abstract and citation database of peer-reviewed literature including journals, books and conference proceedings. Characteristic for a citation database are connections between citing and cited documents/publications, counted as citations. However, citation counts in Scopus tend to be incomplete, as references to proceeding papers are not always linked. As a consequence, they are not counted as citations and therefore not included in the author’s performance profile. A manual detection of these citations is possible only for a smaller number of citations, though it is very time-consuming.

The aim of this project is the creation of a simple and stable program/script to automatically identify missing references in the Scopus database. The program gets as input an article or a set of articles that are recorded in Scopus. The program then needs to access Scopus over an API, to detect references without URLs for the article(s) in input and to compile a list of affected articles with URLs and possibly some additional meta-information. This list is then used by the librarians to contact Scopus and ask for updating the database accordingly. A challenge for these programs/scripts is the frequently changing interface of Scopus.

The project is located in the bibliometrics services at the unibz university library. Contact person for further information is Dr. Karin Karlics, [Karin.karlics@unibz.it](mailto:Karin.karlics@unibz.it).

Bozen-Bolzano 21.7.2017