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Efficiency and Effectiveness in the Collection and Analysis of S&T Open Source Information

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While looking for information in scientific database, we are overwhelmed by the amount of information that we encounter. In this big data collection, getting information with added-value could be strategic for nuclear verification.

In our study, we have worked about “best practices” in collecting, processing and analyzing open source scientific and technical information.

First, we were insistent on working with information authenticated by referees such as scientific publications (structured information). Analysis of this structured data is made with bibliometric tools.

Several steps are carried out: collecting data related to the paradigm, creating a database to store data generated by bibliographic research, analyzing data with selected tools.

With analysis of bibliographic data only, we are able to get:

- a panoramic view of countries that publish in the paradigm,
- co-publication networks,
- organizations that contribute to scientific publications,
- countries with which a country collaborates,
- areas of interest of a country, ...

So we are able to identify a target. On a second phase, we can focus on a target (countries for example).

Working with non-structured data (i.e. press release, social networks, full text analysis of publications) is in progress and needs other tools to be added to the process, as we will discuss in this paper.

In information analysis, methodology and expert analysis are important. Software analysis is just a tool to achieve our goal.

This presentation deals with concrete measures that improve the efficiency and effectiveness in the use of open source S&T information and in the management of that information over time. Examples are shown.

Country or International Organization

France

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