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of the CTBTO scientific communication using network visualizations

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The CTBTO Library has created an extensive analysis of the CTBTO scientific communication. This was possible using bibliometric and scientometric techniques, through key network visualizations to represent its contribution to the global scientific community during the last 25 years of international collaboration.

In the context of the Comprehensive Nuclear-Test-Ban Treaty (CTBT) verification system, this analysis includes the content of more than 2,500 documents such as scientific articles, conference proceedings, reports, books, book chapters, expert reports, and dissertations (1996-2021) where experts in nuclear test detection from different backgrounds and types of institutions interact and contribute with innovative solutions to improve the verification regime.

In this framework, the network visualizations offer an innovative approach to represent the complexity of this universe. With this technique, it has been possible to determine all the variety and diversity characterizing all the connections between experts, subjects of interest in common, institutions, and countries.

This work was possible with the following software: a) Mendeley (free software), and b) VoSviewer (open software). The role of the Metadata was crucial, especially to standardize of author's names, keywords, institutions, and countries. These representations express how clusters are interconnected, their co-occurrence, and relatedness based on the frequency of publications.

Promotional text

CTBTO 25 years of Scientific Communication

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