Contribution ID: **126**　　　　　　　　　　　　　　　　Type: **POSTER&PITCH**

SmartER: Synergizing Metadata from Scholarly Repositories to Support Research Data Management

Monday 4 November 2024 14:00 (1 hour)

There has been substantial increase in number of scientific publications across diverse disciplines. These publications often generate metadata, scholarly content and scientific models/source code etc. Though such information is made available to research communities under open science initiative, numerous scholarly repositories have emerged over the years to harvest metadata in various exciting aspects. For example, DBLP, ORCID, ROR and arXiv systematically provide access to scholarly metadata features and content respectively. The Digital Bibliography and Library Project (DBLP) offers free access to metadata features within the field of informatics and interdisciplinary research. The Research Organization Registry (ROR) collects information on research organizations globally. Additionally, the Open Researcher and Contributor ID (ORCID) allows authors to contribute their information. The arXiv allows users to share scholarly content and maintains the metadata. This scholarly metadata could provide invaluable support to domain scientists across disciplines thus supporting research data management.

These repositories collect and maintain wide range of scholarly metadata features. However, to have a comprehensive scholarly metadata overview, it is essential to focus on these repositories together which could bring potential challenges that need to be addressed carefully while maintaining the data integrity. These challenges encompass aspects like Author and Affiliation Disambiguation. To optimize scholarly metadata coverage, strategic integration of open-access initiatives is crucial. This is where the innovative mechanism of SmartER steps in.

SmartER emerges as an innovative framework designed to address these challenges by synergizing metadata from diverse scholarly repositories, incorporating metadata features from sources such as ORCID, arXiv, ROR, Google Scholar etc. SmartER aims to create a unified and enriched metadata ecosystem that enhances the discoverability, interoperability, and reusability of research data thus facilitating seamless incorporation of available metadata into research metadata cycle. This initiative cultivates the repositories harmonization by structuring metadata features. It considers open-access repositories to address challenges related to Author and Affiliation Disambiguation. The SmartER data acquisition approach is proficient in extracting and accessing metadata from scientific publications and scholarly repositories. The repository harmonization enhances, validates, and associates extracted metadata with diverse repositories. Hence elevating the visibility and discoverability of research outputs across scientific communities. Moreover, it ensures a more comprehensive understanding of scholarly contributions. SmartER acts as a catalyst for improved scientific metadata in the research metadata cycle. It promises an era of enhanced collaboration, discoverability, and knowledge extraction within research communities, including interdisciplinary research endeavors that bridge diverse scientific domains.

Please specify "other"

In addition, please add 3 to 5 keywords.

Research Metadata Cycle, SmartER, Repositories Harmonization

Please specify "other"

For whom will your contribution be of most interest?

Researchers

Please assign yourself (presenting author) to one of the following groups.

Researchers

Primary author: Dr SURYANI, Muhammad Asif (GESIS - Leibniz-Institut für Sozialwissenschaften in Köln)

Co-author: Dr MATHIAK, Brigitte (GESIS - Leibniz-Institut für Sozialwissenschaften in Köln)

Presenter: Dr SURYANI, Muhammad Asif (GESIS - Leibniz-Institut für Sozialwissenschaften in Köln)

Session Classification: Poster Session A

Track Classification: Connecting research data: 4. Metadata annotation and management