

Open Science Data Discovery Platform

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Technology and use case studies of "Open Science Data Discovery Platform" will be introduced. So far we have harvested approximately 0.6 million metadata of data citation (DOIs and related metadata given to datasets) from publicly open databases of ICSU-WDS, PANGAEA, ICPSR, etc., and have been developing new technology to leverage those data-citation link information and scholarly article archives. This technology, including linguistic, time-space, and ontological analysis techniques, is expected to have potential to enable new knowledge finding from various relations between datasets and articles, as well as analysis of higher-class clustering and grouping structures of relationships and links between science-technology information sources and even various communities which are related to science and technology data and articles. Through this process, perhaps to be like easy user-interface in future (like Web of Science), even international perspectives will be easily captured of more general science and technology research information pieces, links, and inter-relations to each other. For example, regarding climate change prediction and related decision making we may be able to find easily by an online search system how different earth observation datasets are used in political papers and meteorological papers.

Keywords: Scientific data, ICSU-WDS, database technology, data search, data citation