

R011-P02

ポスター 3 : 11/26 PM2/PM3 (14:50-18:25)

分野横断型研究データベース AMIDER とオープンデータ推進の取り組み

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Interdisciplinary Research Database AMIDER and Related Initiatives for Open Data

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The AMIDER (Advanced Multidisciplinary Integrated-database for Exploring new Research; <https://amider.rois.ac.jp/>) website was released in April 2024 to demonstrate an advanced data-sharing platform targeting non-expertized users interested in connecting to diverse scientific fields. Diverse scientific data mainly in polar science, including solar-terrestrial physics data, meteorology data, meteorite samples, and animal specimens, are registered thanks to a collaboration with Japanese polar science communities. Further expansion of the database beyond polar science is also ongoing. AMIDER is characterized as an integrated system applicable to different data types, such as physical observation data and specimens, and a user-friendly web application. Users can grasp diverse research data at a glance through AMIDER's catalog view, which was inspired by web marketing and consists of thumbnail images and snippets. Multidisciplinary data curation and management are also the AMIDER's uniqueness, where multiple metadata schemas are integrated, and standardized and self-describing data formats are adopted. Data curation software, such as a metadata handling tool, is developed and released (<https://github.com/AMIDER-dev>). More advanced attempts, such as applying natural language processing to metadata, are also ongoing. In this presentation, we introduce AMIDER's design, operation status, efforts to expand the dataset, and advanced developments.