

Data Collections Explorer

An information system for the engineering sciences

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Motivation

Easy Findability and Accessibility are important for the efficient re-use of research. The Data Collections Explorer is supposed to:

- Provide an overview of research data repositories, databases, and archives relevant to the engineering community
- Make individually published datasets more accessible

Use Cases

We are concentrating on the following use cases:

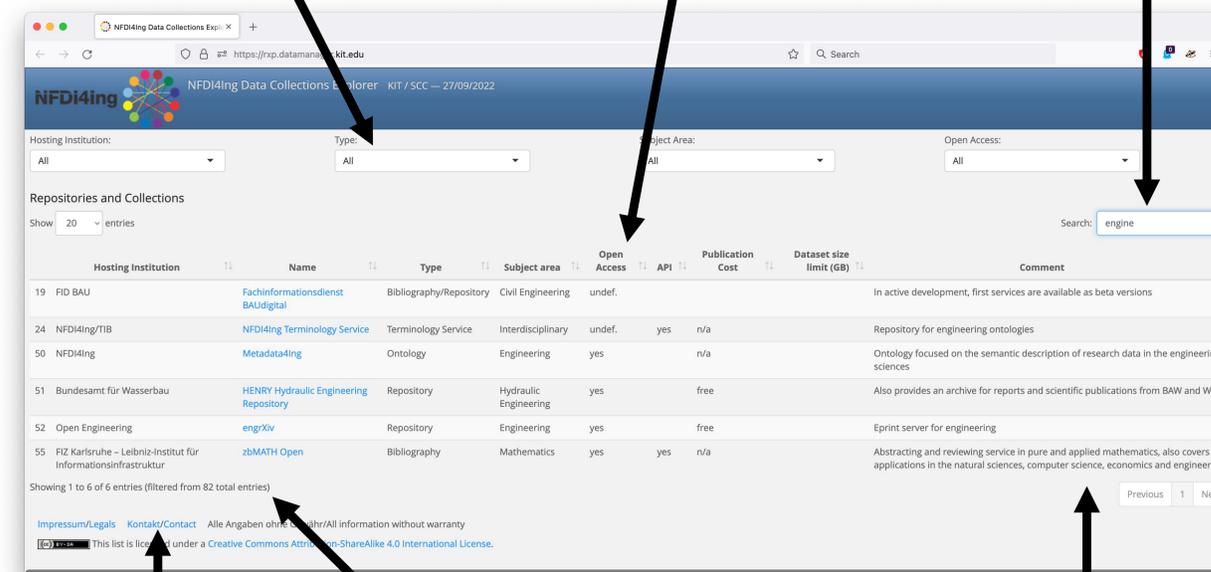
- Researchers looking for datasets:
 - Are there datasets to support my research questions?
 - Are there benchmarks available to check my results?
 - Are datasets published Open Access?
- Researchers looking for repositories where to publish their data:
 - Where to publish my dataset?
 - Are there size limits or publication costs?

Drop down menus allow filtering for

- Hosting Institution
- Type
- Subject Area
- Open Access

Tables can be sorted in ascending/descending order

Full text search



| Hosting Institution | Name | Type | Subject area | Open Access | API | Publication Cost | Dataset size limit (GB) | Comment |
|---|--|-------------------------|-----------------------|-------------|-----|------------------|-------------------------|--|
| 19 FID BAU | Fachinformationsdienst BAUdigital | Bibliography/Repository | Civil Engineering | undef. | | | | In active development, first services are available as beta versions |
| 24 NFDI4ing/TIB | NFDI4ing Terminology Service | Terminology Service | Interdisciplinary | undef. | yes | n/a | | Repository for engineering ontologies |
| 50 NFDI4ing | Metadata4ing | Ontology | Engineering | yes | | n/a | | Ontology focused on the semantic description of research data in the engineering sciences |
| 51 Bundesamt für Wasserbau | HENRY Hydraulic Engineering Repository | Repository | Hydraulic Engineering | yes | | free | | Also provides an archive for reports and scientific publications from BAW and WSV |
| 52 Open Engineering | engXiv | Repository | Engineering | yes | | free | | Eprint server for engineering |
| 55 FIZ Karlsruhe – Leibniz-Institut für Informationsinfrastruktur | zbMATH Open | Bibliography | Mathematics | yes | yes | n/a | | Abstracting and reviewing service in pure and applied mathematics, also covers applications in the natural sciences, computer science, economics and engineering |

Continuous updates based on community feedback

Short descriptions of the linked resources

Contact and feedback: philipp.ost@kit.edu

Try it here: rxp.datamanager.kit.edu

Community Involvement

- Currently there are over 80 entries
- Continuously updated based on community feedback

Current Work

- Working on a new data model
- Expanding to NFDI-MatWerk

Future Work

Currently planned, based on feedback provided by the NFDI4ing community:

- Improved user interface
- API access
- Mechanism for users to add/recommend new entries
- Make use of controlled vocabularies

