

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:

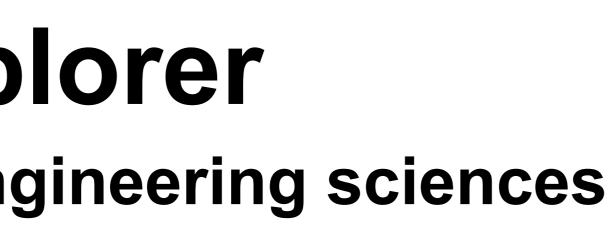
- Provide an overview of research data repositories, databases, and archives relevant to the engineering community
- Make individually published datasets more accessible

Use Cases

We are concentrating on the following use cases:

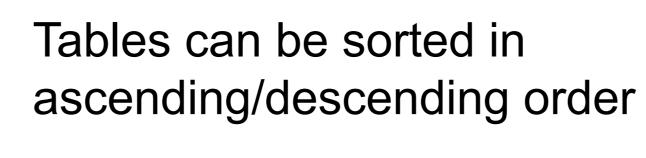
- **Researchers** looking for datasets:
 - Are there datasets to support my research questions?
 - Are there benchmarks available to check my results?
 - Are datasets published Open Access?
- **Researchers** looking for repositories where to publish their data:
 - Where to publish my dataset?
 - Are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

Steinbuch Centre for Computing (SCC) Data Exploitation Methods (DEM)



Drop down menus allow filtering for

- Hosting Institution
- Туре
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9 FID BAU	Fachinformationsdienst BAUdigital	Bibliography/Repository	Civil Engineering	undef.				In active development, first services are available as beta versions
4 NFDI4Ing/TIB	NFDI4Ing Terminology Service	Terminology Service	Interdisciplinary	undef.	yes	n/a		Repository for engineering ontologies
0 NFDI4Ing	Metadata4Ing	Ontology	Engineering	yes		n/a		Ontology focused on the semantic description of research data in the engine sciences
1 Bundesamt für Wasserbau	HENRY Hydraulic Engineering Repository	Repository	Hydraulic Engineering	yes		free		Also provides an archive for reports and scientific publications from BAW and
2 Open Engineering	engrXiv	Repository	Engineering	yes		free		Eprint server for engineering
5 FIZ Karlsruhe – Leibniz-Institut für Informationsinfrastruktur	zbMATH Open	Bibliography	Mathematics	yes	yes	n/a		Abstracting and reviewing service in pure and applied mathematics, also cov applications in the natural sciences, computer science, economics and engin
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Community Involvement

Current Work

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

Try it here: <u>rxp.datamanager.kit.edu</u>

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

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

• Make use of controlled vocabularies



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