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Data Papers

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NTK

50°6'14.083"N, 14°28'26.365"E
Národní technická knihovna
National Library of Technology

GreyNet

Grey Literature Network Service

Data papers – an introduction

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Workshop “Data Papers”, NTK Prague, October 23, 2018

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Research data

“Factual records (numerical scores, textual records, images and sounds) used as primary sources for scientific research, and that are commonly accepted in the scientific community as necessary to validate research findings” (OECD)

Archived data (485)
Audiovisual data (415)
Configuration data (59)
Databases (418)
Images (1093)
Networkbased data (126)
Plain text (1020)
Raw data (969)
Scientific and statistical data formats (1373)
Software applications (388)
Source code (120)
Standard office documents (1305)
Structured graphics (791)
Structured text (675)
other (775)

re3data.org

Research data management



biblio.uottawa.ca

Hot and cold data

hot
create,
process,
analyze

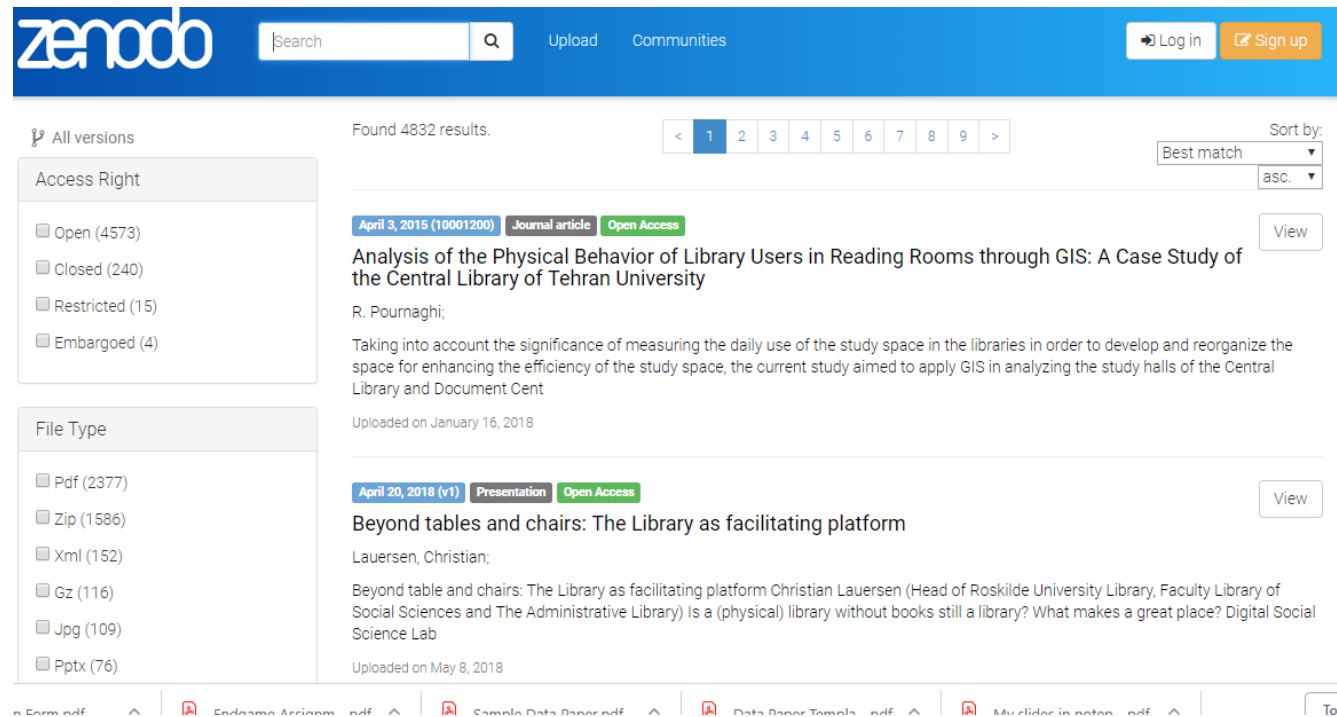


cold
preservation,
publishing

metadata (standards: DataCite etc.), identifiers (DOI etc.), link to paper

Why publish data?

- research policy (institution, country, EU)
- funding agencies (including EC/H2020 program)
- academic journals



The screenshot shows the Zenodo website interface. At the top, there is a search bar and navigation links for 'Upload' and 'Communities'. Below the search bar, it indicates 'Found 4832 results.' and provides pagination controls. The results are sorted by 'Best match' in ascending order. Two results are visible:

- April 3, 2015 (10001200) Journal article Open Access**
View
Analysis of the Physical Behavior of Library Users in Reading Rooms through GIS: A Case Study of the Central Library of Tehran University
R. Pourmaghi;
Taking into account the significance of measuring the daily use of the study space in the libraries in order to develop and reorganize the space for enhancing the efficiency of the study space, the current study aimed to apply GIS in analyzing the study halls of the Central Library and Document Cent
Uploaded on January 16, 2018
- April 20, 2018 (v1) Presentation Open Access**
View
Beyond tables and chairs: The Library as facilitating platform
Lauersen, Christian;
Beyond table and chairs: The Library as facilitating platform Christian Lauersen (Head of Roskilde University Library, Faculty Library of Social Sciences and The Administrative Library) Is a (physical) library without books still a library? What makes a great place? Digital Social Science Lab
Uploaded on May 8, 2018

On the left side of the search results, there are filters for 'Access Right' and 'File Type':

- Access Right:**
 - Open (4573)
 - Closed (240)
 - Restricted (15)
 - Embargoed (4)
- File Type:**
 - Pdf (2377)
 - Zip (1586)
 - Xml (152)
 - Gz (116)
 - Jpg (109)
 - Pptx (76)

Data papers

“A data paper is a searchable metadata document, describing a particular dataset or a group of datasets, published in the form of a peer-reviewed article in a scholarly journal”

(Global Biodiversity Information Facility)

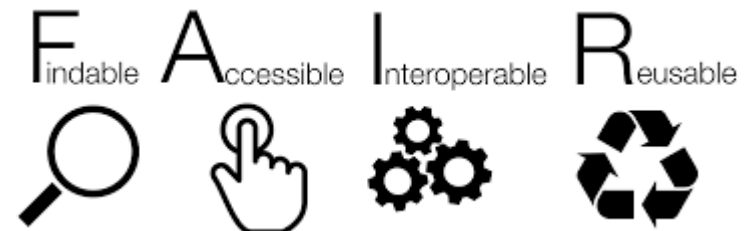
Where and why

Where

- Repository
- Academic journal
- **Data journal**

Why

- To improve findability of data
 - cf. FAIR principles to increase machine readability of published datasets
- To increase impact



Format

Content

- Standard structure
- Description of dataset
- Link to dataset
- Short paper

- But a large diversity of formats

Link with data repository

- Metadata (export to data paper template)
- Enrichment
 - including elements from data management plan
- Importance of standards
 - <http://www.dcc.ac.uk/resources/metadata-standards/list>

Mandatory	Recommended	Optional
Identifier	Subject	Language
Creator	Contributor	Alternate ID
Title	Date	Size
Publisher	Resource Type	Format
Publication year	Related identifier	Version
	Description	Rights
	GeoLocation	

Data journals

Including data papers

- BMC Research Notes
- F1000 Research
- GigaScience (OUP)
- PLoS One
- Frontiers in Sociology

Exclusively data papers

- Data in Brief (Elsevier)
- Scientific Data (Nature)
- Journal of Open Archeology Data (Ubiquity)
- Genomics (Elsevier)

<https://www.fosteropenscience.eu/foster-taxonomy/open-data-journals>

Thank you !

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