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## **Data Papers**

Schöpfel, Joachim  
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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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Gériico



# 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](http://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 image is a screenshot of the Zenodo website. The top navigation bar is blue and contains the Zenodo logo, a search bar, and links for 'Upload' and 'Communities'. On the right side of the bar are 'Log in' and 'Sign up' buttons. Below the navigation bar, the page shows search results. On the left, there are two filter panels: 'Access Right' with options for Open (4573), Closed (240), Restricted (15), and Embargoed (4); and 'File Type' with options for Pdf (2377), Zip (1586), Xml (152), Gz (116), Jpg (109), and Pptx (76). The main content area displays 'Found 4832 results.' and a pagination control showing page 1 of 9. Two results are visible: 1. 'Analysis of the Physical Behavior of Library Users in Reading Rooms through GIS: A Case Study of the Central Library of Tehran University' by R. Pourmaghi, dated April 3, 2015, with a 'View' button. 2. 'Beyond tables and chairs: The Library as facilitating platform' by Lauersen, Christian, dated April 20, 2018, with a 'View' button. The bottom of the screenshot shows a list of file names from a search, including 'Sample.pdf', 'Endgame Assignment.pdf', 'Sample Data Paper.pdf', 'Data Paper Template.pdf', and 'My slides in notes.pdf'.

# 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)

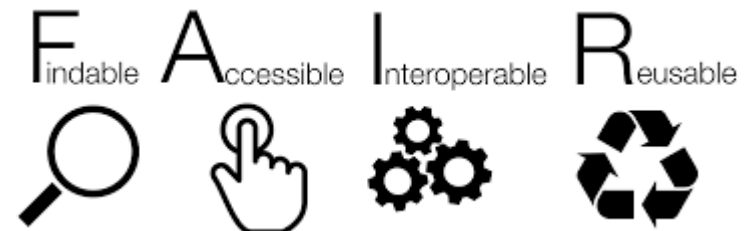
# Where and why

## 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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