





to copyright.

(excluding logos) ing.grid logo rights are held by



FAIR Data Management

in Engineering

Sciences

ing grid

discussed

and presented

in a FAIR Journal



(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.

SCIENTIFIC DISCUSSION

SCIENTIFIC CREDIT

NATIONAL AND INTERNATIONAL NETWORK

DRIVEN BY ENGINEERING COMMUNITIES





ing.grid logo rights are held by the rights holders and are subject to copyright.

TOPICS

data literacy

data infrastructure

data governance

data economics

data ethics

data sets

data management software

ADRESSEES

engineering sciences

mechanical, electrical, civil, computational, materials

academic research

non-academic research

industry

services

humanities

law

economics

management

libraries

computing centres



EDITORIAL BOARD



(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.



Peter Pelz



Thomas Stäcker



Robert Schmitt



Petra Gehring



Ina Heine



Bernd Flemisch



Jane Wyngaard



Martin Horsch



Gretchen Greene



Christian Stemmer



Jörg Unger



Achim Streit



Ulrike Küsters



Irina Sens



Andrea Rapp



Christine Legner



Christian Langenbach



Regine Gerike



Stefan Decker



Satoshi Watanabe

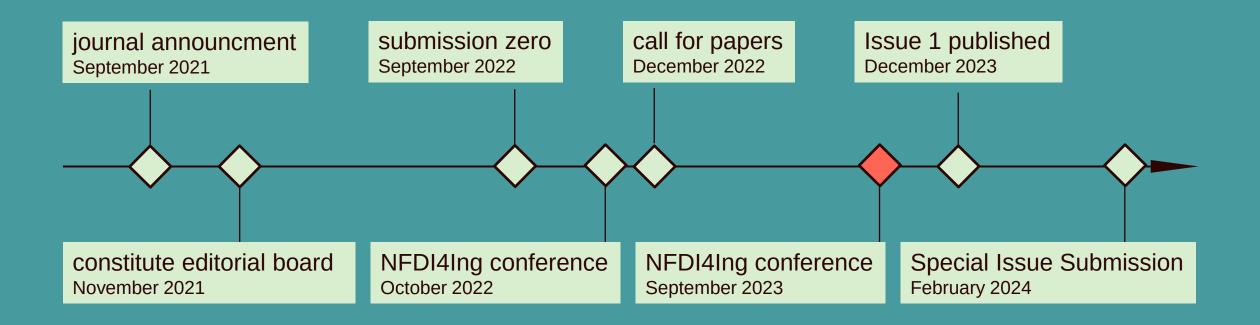


Dazhuan Wu

5



(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.

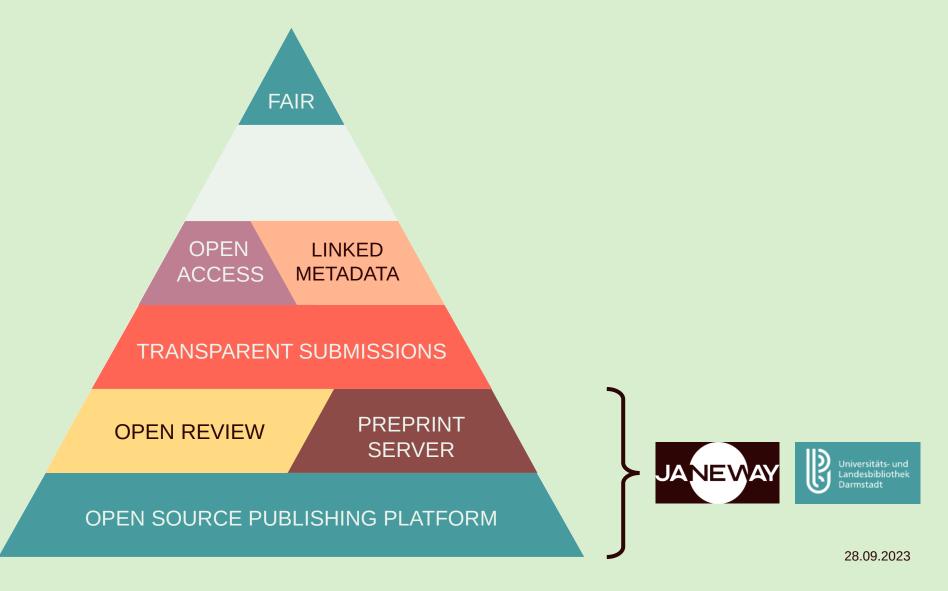




Building blocks of a FAIR Journal



(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.





(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.

INCREASED TRANSPARENCY

IMPROVED REVIEW QUALITY

OPEN SCIENTIFIC DISCUSSION

ENGAGED COMMUNITY





to copyright.

(excluding logos) ing.grid logo rights are held by the rights holders



ROLES

52 x



Author

3 x



Managing Editor

21 x



Topical Editor

28 x



Reviewer

69 x



Community

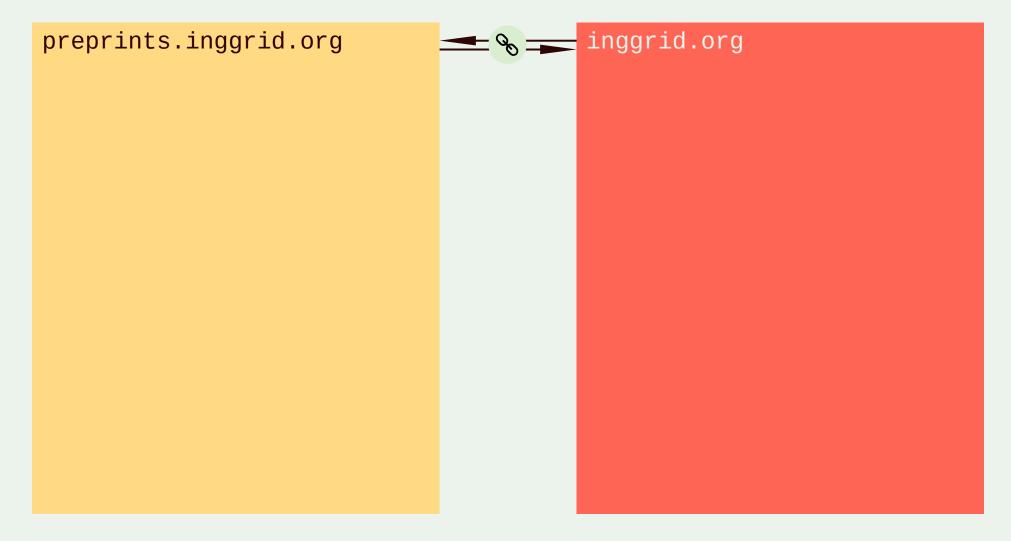
14 Preprints3 Peer-Reviewed Articles



Platforms: Preprint Server and Journal Website



(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.

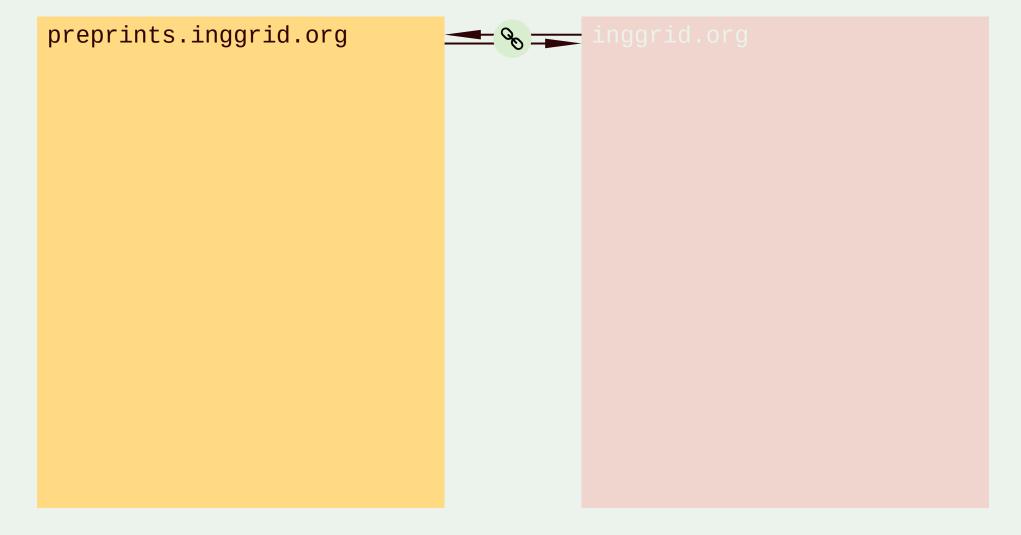




Domain of Open Peer Review



(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.

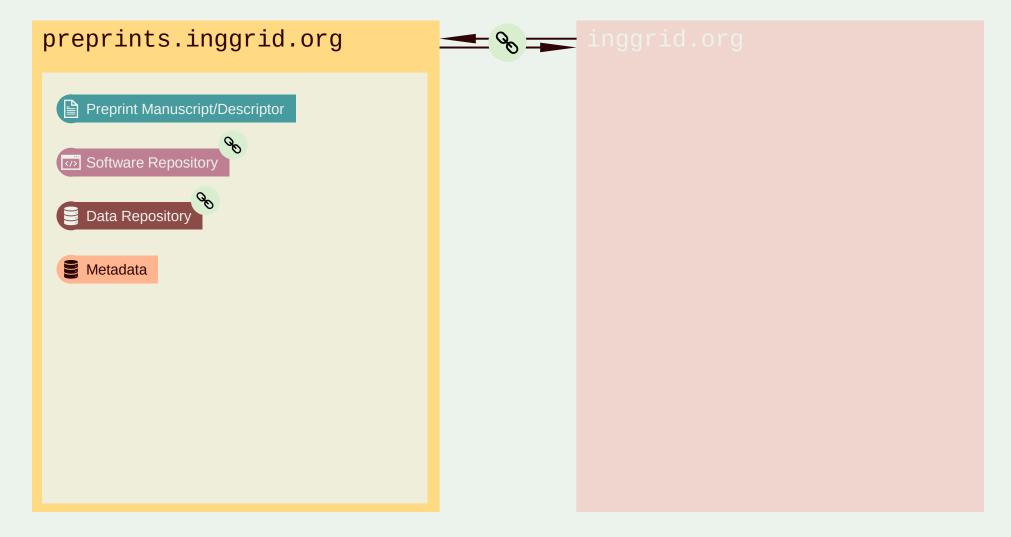




Peer-Reviewed Preprint Publication



(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.

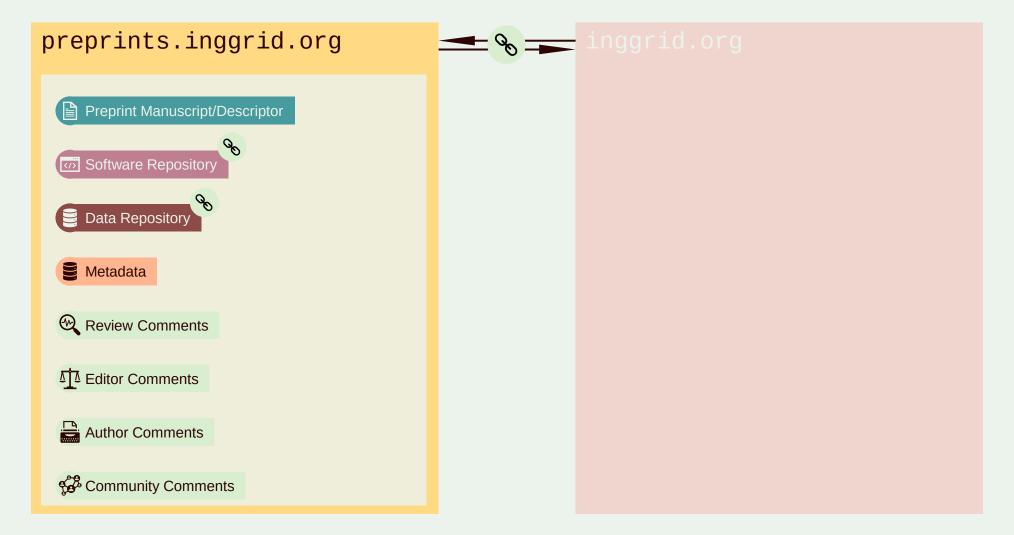




Peer-Reviewed Preprint Publication



(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.





preprint
title

preprint =
PDF





This is a Preprint and has not been peer reviewed. A published version of this Preprint is available on ing.grid. This is version 6 of this Preprint.



Downloads

Download Preprint

Supplementary Files

Authors

Martin Hock ¹⁰, Hannes Mayr, Manuela Richter, Jan Lemmer, Peter Pelz ¹⁰

Home About Preprints Subjects Journal Submit Account ▼

Abstract

The highest amount of published information on paper is contained in visualizations such as 2D and or 3D plots. Supporting a generic research workflow, pitoff provides tools that can a) create and anchor a reference (ID code, UR_{1...}) for and b) package figures, data, code and parameters used to create the figure.

The code is provided as bools with small impact, that need to be used consciously by the researcher and does not aim to relieve the researcher of his duty to keep his digital working environment organized. The exported packages help immensely to make results reusable and repeatable. The initial implementation was crea, more

Subjects

Data Management Software

eywords

research data management, visualization, figure, plot, mapping, referencing, ID, visualization, figure, plot, mapping, reference, ID, organisation

Dates

Published: 2022-09-05 10:00 Last Updated: 2023-03-17 11:45

Older Versions

★ Version 2 - 2022-10-14
 ★ Version 1 - 2022-09-05

License

Creative Commons Attribution 4.0

Add a Comment

ADD COMMENT

Comments

Comment #18 Kevin Logan @ 2023-03-15 11:24

I thank the authors for implementing the corrections recommended by the reviewers. Minor linguistic errors should be corrected during the copy editing step.

I would like to make one suggestion regarding the reference [16]. Lambrecht et al. The authors may consider the latest work regarding FAIR principles for research software, which is also an RDA recommendation. The text is publicly available here: https://doi.org/10.15497/RDA00068 3.

Other than that, I would like to ask the authors to submit their LaTeX project folder in order for it to be processed for publication in the ing.grid journal.

œ



(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.

links to data, software

metadata

comment/
review
section

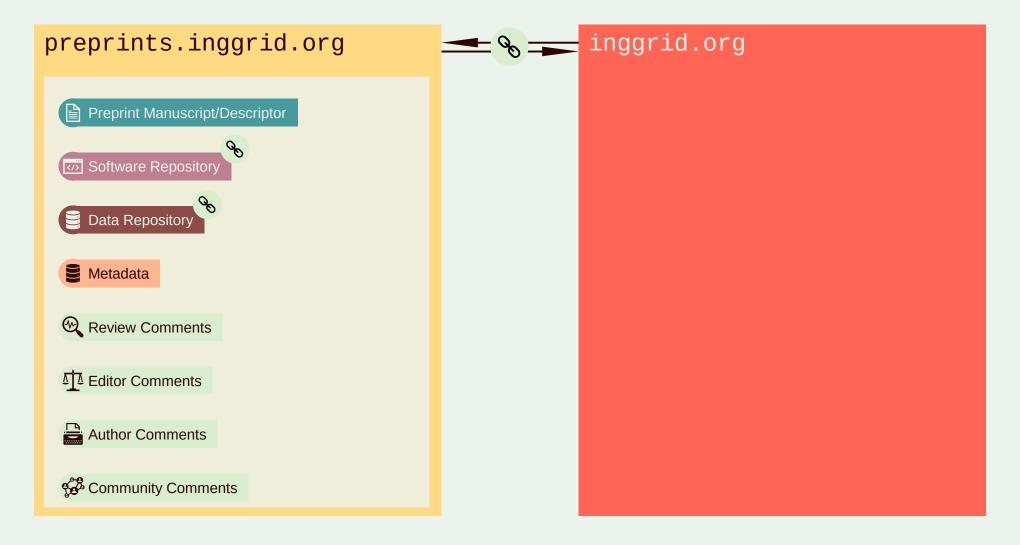




Peer-Reviewed Preprint Publication



(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.

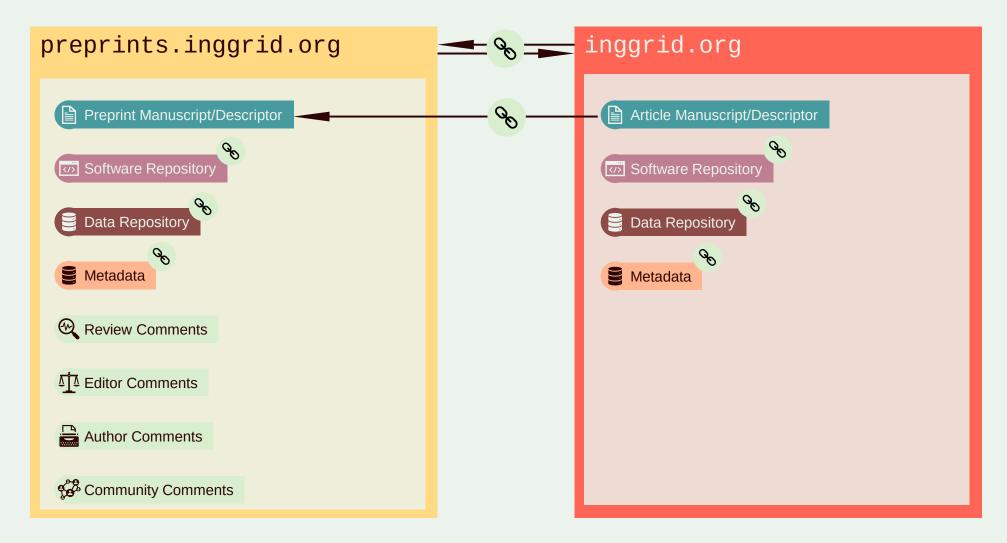




Peer-Reviewed Preprint Publication



(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.





article title

ing.grid





(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.

Abstract

The highest amount of published information on paper is contained in visualizations such as 2D and or 3D plots. Supporting a generic research workflow, plotID provides tools that can a) create and anchor a reference (ID code, URL,...) for and b) package figures, data, code and parameters used to create the figure. The code is provided as tools with small impact, that need to be used consciously by the researcher and does not aim to relieve the researcher of his duty to keep his digital working environment organized. The exported packages help immensely to make results reusable and repeatable. The initial implementation was created in Matlab and used internally before rewriting the tool in the Python programming language, for easier distribution and adaption to diverse environments.

Keywords: research data management, visualization, figure, plot, mapping, referencing, ID

How to Cite:

Hock, M. & Mayr, H. & Richter, M. & Lemmer, J. & Pelz, P., (2023) plotiD - a toolkit for connecting research data and visualization ing.grid 1(1). doi:

https://doi.org/10.48694/inggrid.3632 (5)

article metrics







Michaela Leštáková -

Download XML Download PDF

ISSUE

Volume 1 • Issue 1 • 2023

IDENTIFIERS

DOI: https://doi.org/10.48694/inggrid.3632 (5)

RELATED MATERIAL

https://git.nwthaachen.de/plotid/plotid_python

PREPRINT

This article is linked to a Preprint in ing.grid Preprint Repository.

plotID - a toolkit for connecting research

DOI

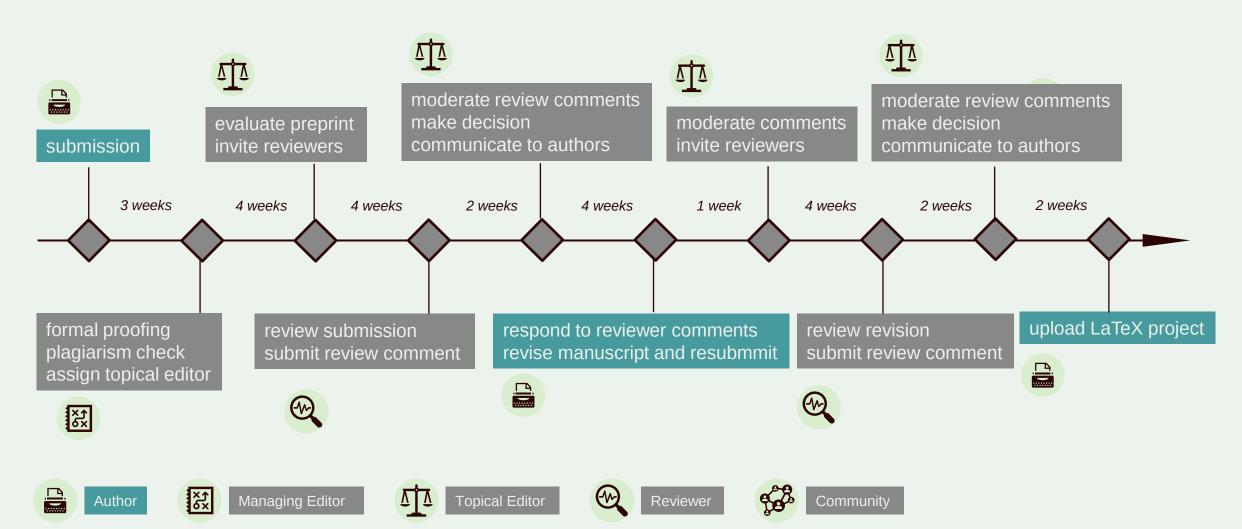
link to software

link to preprint





(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.

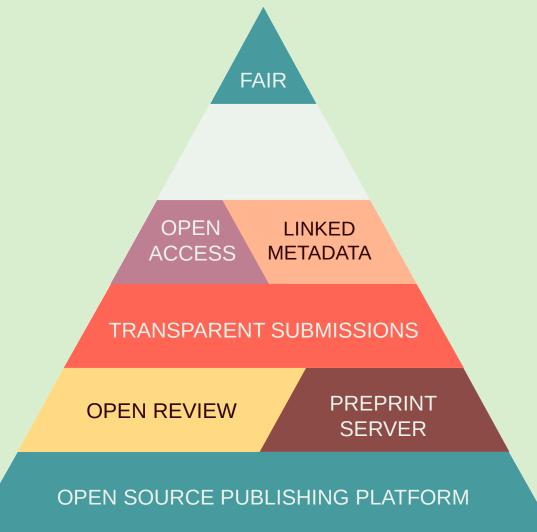




Building blocks of a FAIR Journal



(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.





1 Summary of Submission Types



(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.

	_			
submissi	ion type	manuscript	software	data
mandato	ry material	manuscript	software descriptor link to software	data descriptor link to data
optional	material	link to software link to data	link to data	link to software



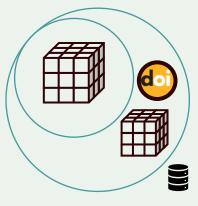


(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.

FINDABLE

Data, and its associated metadata, is easy for both humans and machines to find.

- Datsets are assigned a DOI
- Data are described with relevant metadata
- Metadata contains the DOI of the dataset
- Datasets are deposited in a searchable data repository (e.g., institutional repository, Zenodo)







(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.

FINDABLE

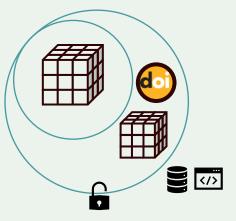
Data, and its associated metadata, is easy for both humans and machines to find.

- Datsets are assigned a DOI
- Data are described with relevant metadata
- Metadata contains the DOI of the dataset
- Datasets are deposited in a searchable data repository (e.g., institutional repository, Zenodo)

ACCESSIBLE

Data, and its metadata, is retrievable via standardised protocols.

• The DOI references a page, from which the dataset can be downloaded







(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.

FINDABLE

Data, and its associated metadata, is easy for both humans and machines to find.

- Datsets are assigned a DOI
- Data are described with relevant metadata
- Metadata contains the DOI of the dataset
- Datasets are deposited in a searchable data repository (e.g., institutional repository, Zenodo)

ACCESSIBLE

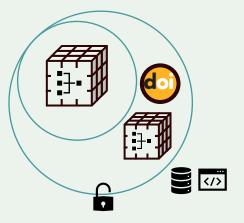
Data, and its metadata, is retrievable via standardised protocols.

The DOI references a page, from which the dataset can be downloaded

INTEROPERABLE

The data need to interoperate with applications or workflows for analysis, storage, and processing.

- The dataset should be described by metadata using a formal, accessible, shared, and broadly applicable language for knowledge representation.
- If possible, (meta)data should use standardised vocabularies







(excluding logos)
ing.grid logo
rights are held by
the rights holders
and are subject
to copyright.

FINDABLE

Data, and its associated metadata, is easy for both humans and machines to find.

- Datsets are assigned a DOI
- Data are described with relevant metadata
- Metadata contains the DOI of the dataset
- Datasets are deposited in a searchable data repository (e.g., institutional repository, Zenodo)

ACCESSIBLE

Data, and its metadata, is retrievable via standardised protocols.

The DOI references a page, from which the dataset can be downloaded

INTEROPERABLE

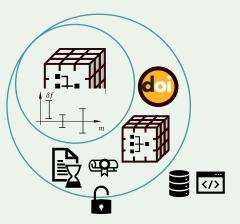
The data need to interoperate with applications or workflows for analysis, storage, and processing.

- The dataset should be described by metadata using a formal, accessible, shared, and broadly applicable language for knowledge representation.
- If possible, (meta)data should use standardised vocabularies

RESUABLE

Data is both usable and reusable.

- Datasets should be accurately described by metadata, documentation, license and version
 - The dataset is released with a clear and accessible data usage license
 - The metadata indicates a version number of the dataset and where possible provides provenance information
- The datasets meet domain-relevant community standards of formal quality

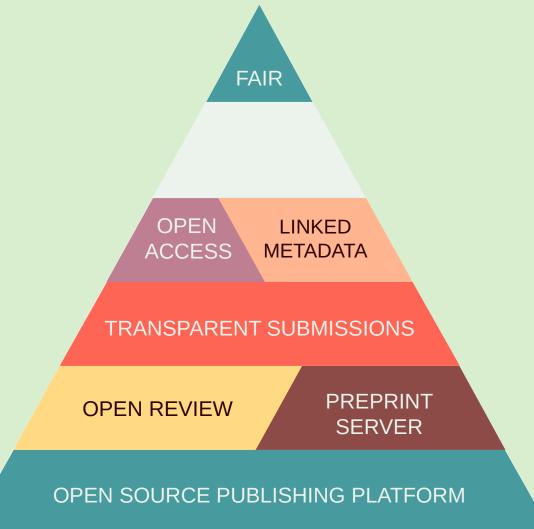




Building blocks of a FAIR Journal



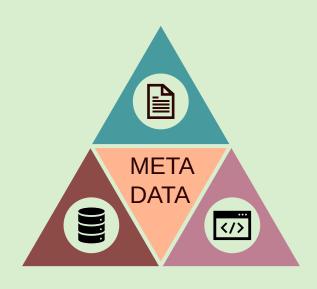
(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.







(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.

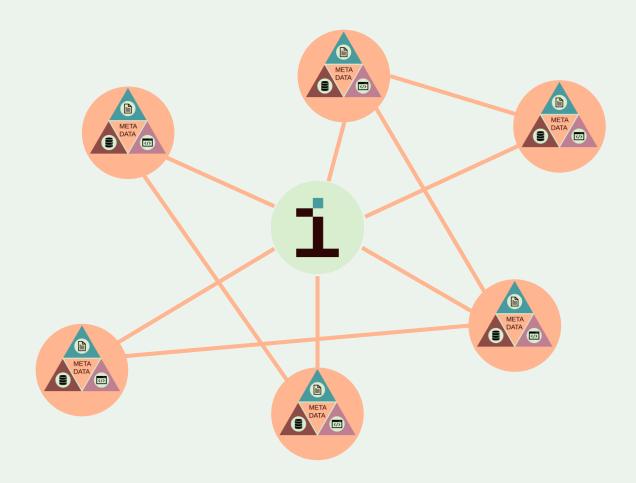


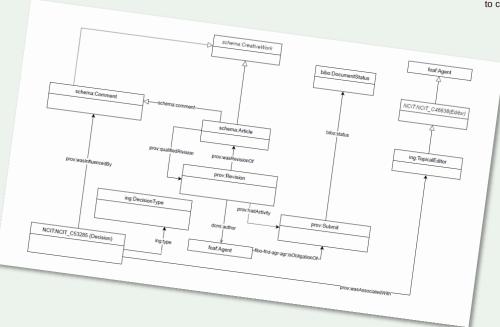


Journal Knowledge Graph



(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.





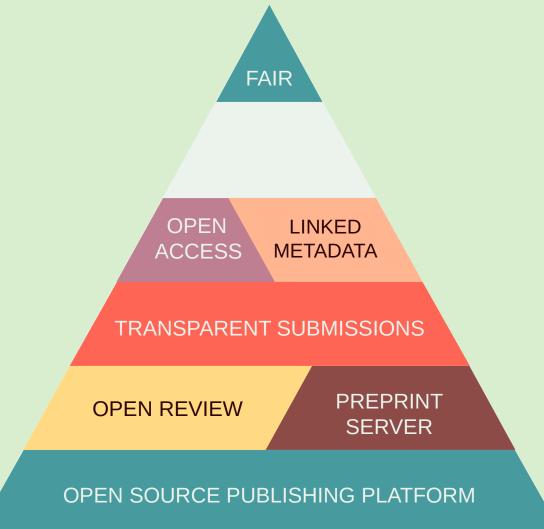




Building blocks of a FAIR Journal

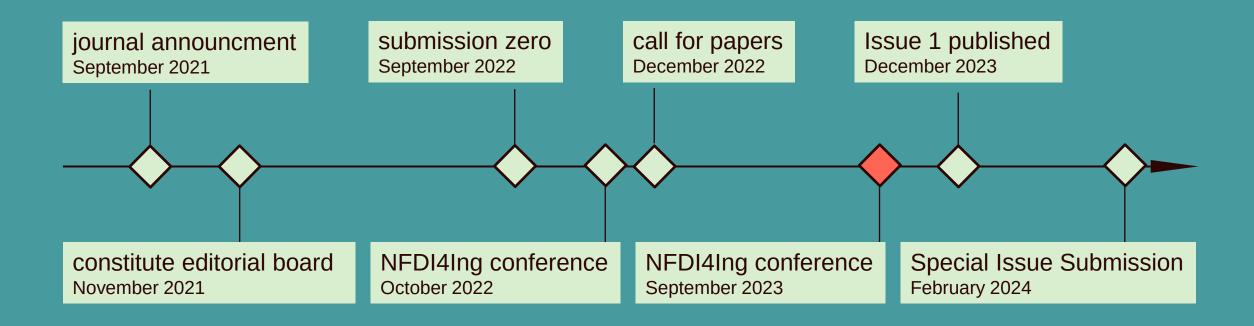


(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.





(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.







NFDI4Ing Conference Special Issue

(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.









(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.

COMPLETE CURRENT ISSUES

SPECIAL ISSUE NFDI4ING CONFERENCE 2023

ACCELERATE PUBLISHING TIME

DOAJ AND SCOPUS INDEXING

 $1 \hspace{1cm} 28.09.2023$



Stay in touch!



(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.







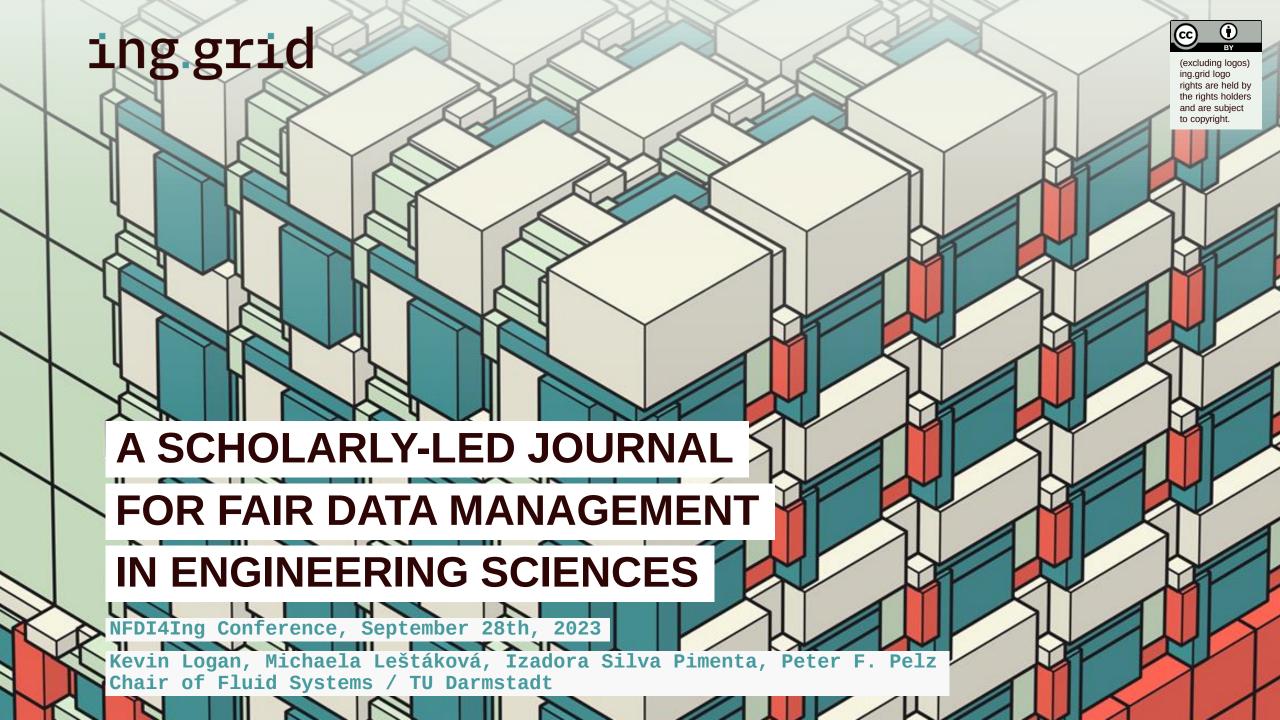














Acknowledgements



(excluding logos) ing.grid logo rights are held by the rights holders and are subject to copyright.

The authors would like to thank the Federal Government and the Heads of Government of the Länder, as well as the Joint Science Conference (GWK), for their funding and support within the framework of the NFDI4Ing consortium. Funded by the German Research Foundation (DFG) - project number 442146713.