

NFDi4ing Conference 2022

*Unifying the Understanding of RDM
in Engineering Science*

Fringe Programme



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Author: Tobias Hamann

WZL | RWTH Aachen University

Organizational Development | Industrial Capabilities

Campus Boulevard 30

52074 Aachen | GERMANY

Phone: +49 151 72921981

t.hamann@wzl-mq.rwth-aachen.de

www.wzl.rwth-aachen.de

ORCID 0000-0002-8021-5524



NFDI4Ing Conference 2022

*Unifying the Understanding of RDM
in Engineering Science*

 Arrival and virtual Check-In

08:45 – 09:00



NFDI4ing

Welcome to the NFDI4ing Conference

NFDI4Ing Conference 2022

*Unifying the Understanding of RDM
in Engineering Science*

Welcome and program overview

09:00 – 09:15



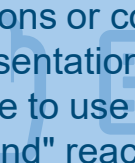
NFDI4ing



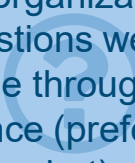
Some organizational notes



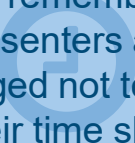
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during the presentations.



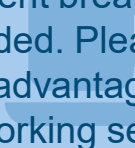
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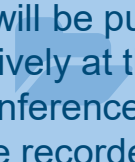
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networking sessions.



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General agenda structure

Fringe programme

Everything taking place around the contributions and key notes

Key Notes

Invited speakers present on one of their topics in the field of RDM

Presentations

Contributors present on one of their topics in the field of RDM

Workshops and Demonstrations

*Behold what RDM can offer
as contributors get into
exchange with you*



It is possible to switch between the contributions.



Agenda



Today's agenda structure

09:00-09:15	Welcome and program overview		
09:15-09:45	"Unifying the Understanding of RDM in Engineering Science"		
09:45-10:15	"On the FAIRness of Wireless Industrial Networking Datasets: Experiences from Experimental Research"		
10:15-10:30	Short Break		
10:30-12:00	Data Insight	Knowledge & Best Practices	re3data
12:00-13:00	Lunch Break		
13:00-14:30	Tools and Repositories	Ontologies	Data Literacy
14:30-15:00	Coffee break and networking session		
15:00-16:00	Data Handling	Interoperability	Coscine
16:00-16:30	"Help!: Data Help Desk spurs scientists toward responsible research data management"		
16:30-17:00	Wrap up of the day and outlook on the next day		



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Organizational orientation of the conference



Internationality

Photo by Artem Beliaikin on Unsplash
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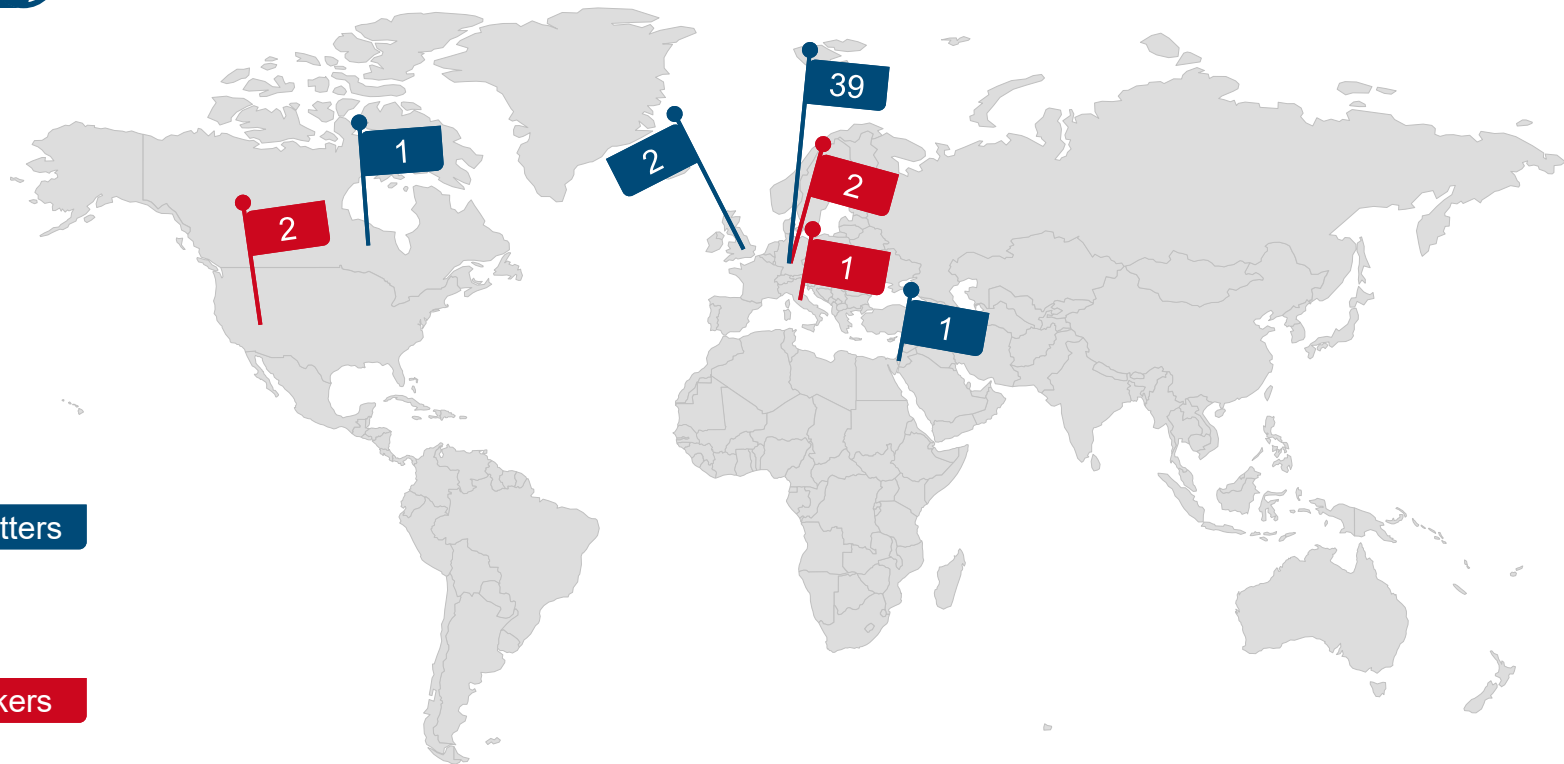


Scientificity

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Origin of the Keynote Speakers and Abstract Submitters



Abstract Submitters

Keynote Speakers

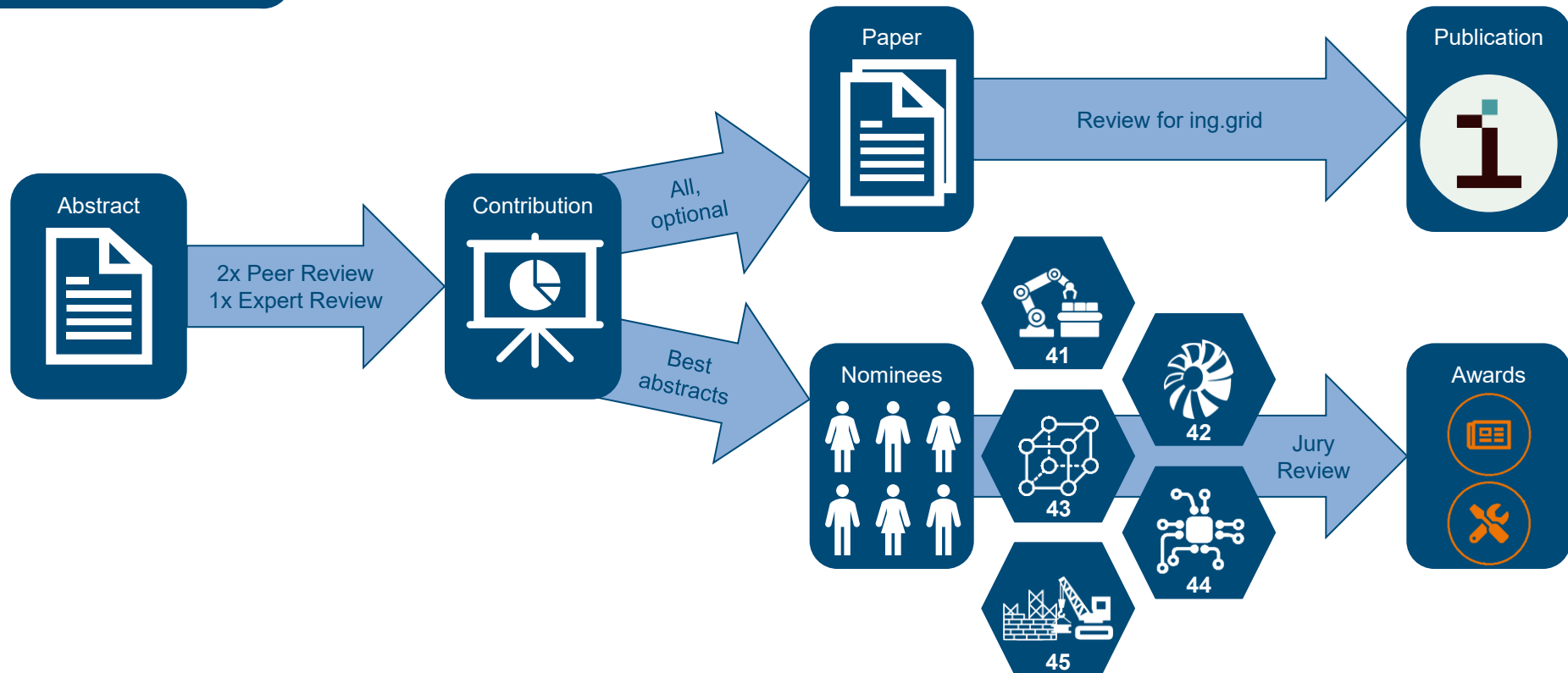


Origin of the registered participants





Review process



Meet the Jury!

Dr.-phil. Ina Heine
RWTH Aachen University



Mechanical and industrial
engineering



Dr.-Ing. Benjamin Lambie
TU Darmstadt



Thermal engineering and
process engineering



Dr.-Ing. Michael Selzer
Karlsruhe Institute of
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Materials science and
engineering



Dr. David Hecker
German Aerospace Center
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Computer science,
systems and electrical
engineering



Dr. Jan Linxweiler
TU Braunschweig



Construction engineering
and architecture





Awards

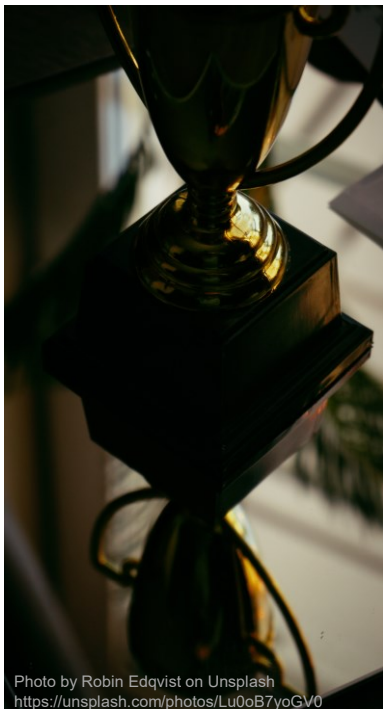


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NFDI4Ing Award 2022 for the best Conference Contribution

Contribution in this year's conference

Endowment: 500€

Conditions apply: Nominated and awarded can be all **RDM**
solutions that were created *outside* NFDI4Ing.



NFDI4Ing Award 2022 for the best RDM Solution

NFDI4Ing-external (Software) RDM-tools

Endowment: 500€

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conference contributions.

Please note: A tool and its related conference contribution cannot win both awards at the same time.

Today's nominees

11:00 - 11:30

ID: 809

Effective Research Data Sharing during the Plant Evolution in the automated Production Domain

Fan Ji
(Institute of Automation and Information
Systems, TUM School of Engineering
and Design, Technical University of
Munich, Munich, Germany)

Nominee for:



**NFDI4Ing Award
2022 for the best
RDM Solution**

13:00 - 14:30

ID: 831

Beyond Data Literacy in Engineering – What Media Literacy has to offer for Critical Data Literacy

Samira Khodaei
(Information Management in Mechanical
Engineering (IMA), RWTH Aachen
University, Aachen, Germany)

Nominee for:



**NFDI4Ing Award
2022 for the best
Conference
Contribution**

15:30 - 16:00

ID: 852

Prepare RDM for Decentralized and Blockchain-Based Data Source

Wendy (Pengyin) Shan
(Digital Initiatives, University of Alberta
Library, Canada)

Nominee for:



**NFDI4Ing Award
2022 for the best
Conference
Contribution**



**NFDI4Ing Award
2022 for the best
RDM Solution**

09:15 – 09:45

Keynote: "Unifying the Understanding of RDM in Engineering Science"

Prof. Dr. Robert Schmitt

Laboratory for Machine Tools and Production Engineering (WZL) of
RWTH Aachen University

Co-Spokesperson of the NFDI4Ing



09:45 – 10:15

Keynote: "On the FAIRness of Wireless Industrial Networking Datasets: Experiences from Experimental Research"

Dr. Theofanis P. Raptis

Institute of Informatics and Telematics, National Research Council of Italy



10:15 – 10:30
Short Break




Take part in our
survey on the topic
of research data
management (RDM)
in engineering.

nfdi4ing.de/survey



Next Presentation:
10:30

Currently the contributions take place in the breakout rooms

	Presentations A	Presentations B	Workshops
10:30 – 12:00	Data Insight	Knowledge and Best Practices	How to use re3data – Creating, editing, and analysing information on research data repositories
10:30 – 11:00	PIA – A concept for a Personal Information Assistant for Data Analysis	Competency Questions in Practice: Metadata Schema for Terahertz Research	
11:00 – 11:30	Effective Research Data Sharing during the Plant Evolution in the automated Production Domain 	Establishment of a Guideline for the Intuitive Creation of Semantic Models in the Internet of Production (IoP)	
11:30 – 12:00	Adaptive Visualizations for Cross-Stakeholder Development of Ontologies for Research Data Management	Data literacy right from the start - FAIR Data Management in Engineering Sciences in the first semester of the Bachelor of Mechanical Engineering - Sustainable Engineering at TU Darmstadt	



Click this icon in your zoom menu to go to one of the Breakout Rooms



Breakout Session



Reaktionen



Mehr

Please also refer

to our agenda



12:00 – 13:00
Lunch Break



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Next Presentation:
13:00



Currently the contributions take place in the breakout rooms

	Presentations A	Presentations B	Workshops
13:00 – 14:30	Tools and Repositories	Ontologies	<p>Beyond Data Literacy in Engineering – What Media Literacy has to offer for Critical Data Literacy</p> 
13:00 – 13:30	Metadata and Terminology Services. A Toolchain for comprehensive Data- and Knowledge Management	Metadata4Ing: An ontology for describing the generation and provenance of research data within a scientific activity	
13:30 – 14:00		Some important aspects of the NFDI4Cat ontology and metadata design	
14:00 – 14:30	Betty's (Re)Search Engine: A client-based search engine for research software stored in repositories	Expanding an Ontology with semantically linked CFD-Simulation Data by Segmentation into reusable Concepts	



Click this icon in your zoom menu to go to one of the Breakout Rooms



Breakout Session



Reaktionen



Mehr

Please also refer

to our agenda



14:30 – 15:00
Coffee Break
and
Networking Session





Breakout Session

Grab a coffee and
join one of our
Breakout Sessions
to get in touch with
others!

Next Presentation:
15:00

Currently the contributions take place in the breakout rooms

	Presentations A	Presentations B	Workshops
15:00 – 16:00	Data Handling	Interoperability	FAIR play integrated right from the start - Coscine
15:00 – 15:30	Metadata Standards and Metadata Generation in HPMC	OntoHuman: User Interface for Ontology-based Information Extraction from Technical Documents with Human-in-the-loop interaction	
15:30 – 16:00	Prepare RDM for Decentralized and Blockchain-Based Data Source  	Implementing usability-improved data management plans in interdisciplinary engineering projects	



Click this icon in your zoom menu to go to one of the Breakout Rooms



Breakout Session



Reaktionen



Mehr

Please also refer

to our agenda



16:00 – 16:30

Keynote: "Help!: Data Help Desk spurs scientists toward responsible research data management"

Bradley Wade Bishop Ph.D.
University of Tennessee



NFDI4Ing Conference 2022

*Unifying the Understanding of RDM
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Wrap up and outlook

16:30 – 17:00





NFDI4ing

Link to today's slides



As of now:

Today's slides are available as filedrop
on Sciebo.

Via the „“-symbol and
then „“ all files can be downloaded
together.

URL:

**[https://rwth-
aachen.sciebo.de/s/tCKt7Az2oipvek4](https://rwth-aachen.sciebo.de/s/tCKt7Az2oipvek4)**

Password:

FetchMelfYouCan



At a later date:

All presentation slides will be made
available as conference proceedings on
zenodo.org with DOI

<https://zenodo.org/communities/nfdi4ing/>
(Will be announced via conference page)

Interactive feedback session

We would like to receive your feedback directly:
What did you like? What can be improved?

6

Questions

The feedback will be collected via Zoom

All responses are presented to all participants and are anonymous.



Toworrow's agenda structure



09:00-09:15

Welcome and programme overview

09:15-09:45

"Data Management: Global challenges, Global Collaborations"

09:45-10:15

ing.grid – FAIR Publishing with Open Review

10:15-10:30

Short Break

10:30-12:00

Research Software

FAIR Research

Wikidata

12:00-13:00

Lunch Break

13:00-13:30

"Data literacy - prerequisite for FAIR data supply and usage"

13:30-14:30

Collaborative Metadata

Supporting Software

RSpace

14:30-15:00

Coffee break and networking session

15:00-16:00

Interoperable Metadata

How to be FAIR

Higher Code Quality

16:00-16:30

"Building LIMS in FAIR Research Data communities"

16:30-16:45

Awards

16:45-17:00

Outlook and farewell

Today's nominees

11:00 - 11:30

ID: 812

Towards Improved Findability of Energy Research Software by Developing a Metadata-based Registry

Stephan Ferenz
(University of Oldenburg – Department of
Computer Science, Oldenburg, Germany)

Nominee for:



**NFDI4ing Award
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RDM Solution**

13:30 - 14:30

ID: 826

RSpace: An Electronic Lab Noteook designed to enhance FAIR workflows and FAIRification of research data

Rory Macneil
(Research Space, Edinburgh, Scotland,
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15:30 - 16:00

ID: 800

A-Match: Facilitating Data Exchange Between Different Applications via API Matching

Sarah Böning
(German Aerospace Center (DLR)
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How to stay in touch

Archetypes

Solving problems of
special engineering
archetypes



Base Services

Generation of tools
and engineering-
related RDM
solutions



Special interest groups and sections

Overarching issues
and solutions



NFDI4Ing Newsletter

Regular information
from across
NFDI4Ing

<https://nfdi4ing.de/news/>



NFDI4Ing Office

Reach our office via
geschaeftsstelle@nfdi4ing.de



Organizator E-Mail

Tobias Hamann:
t.hamann@wzl-mq.rwth-aachen.de

Mario Moser:
m.moser@wzl-mq.rwth-aachen.de





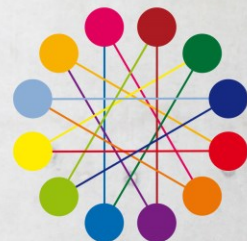
Save the Date

NFDI4Ing conference

September 27th & 28th 2023

hosted by TU Dresden and SLUB Dresden

We look forward to seeing you!



NFDI4Ing



NFDI4Ing Survey 2022
<https://nfdi4ing.de/survey>



Virtual Afterparty



Did you already take part in our survey on the topic of research data management (RDM) in engineering?

nfdi4ing.de/survey



SAVE THE DATE: The NFDI4ing conference 2023 will take place September 27th and 28th

NFDI4Ing Conference 2022

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NFDI4ing

Welcome back to the NFDI4ing Conference

NFDI4Ing Conference 2022

*Unifying the Understanding of RDM
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Welcome and program overview

09:00 – 09:15



NFDI4ing



Some organizational notes



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"Data Management: Global challenges, Global Collaborations"

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"Building LIMS in FAIR Research Data communities"

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Awards

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Outlook and farewell



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Organizational orientation of the conference



Internationality

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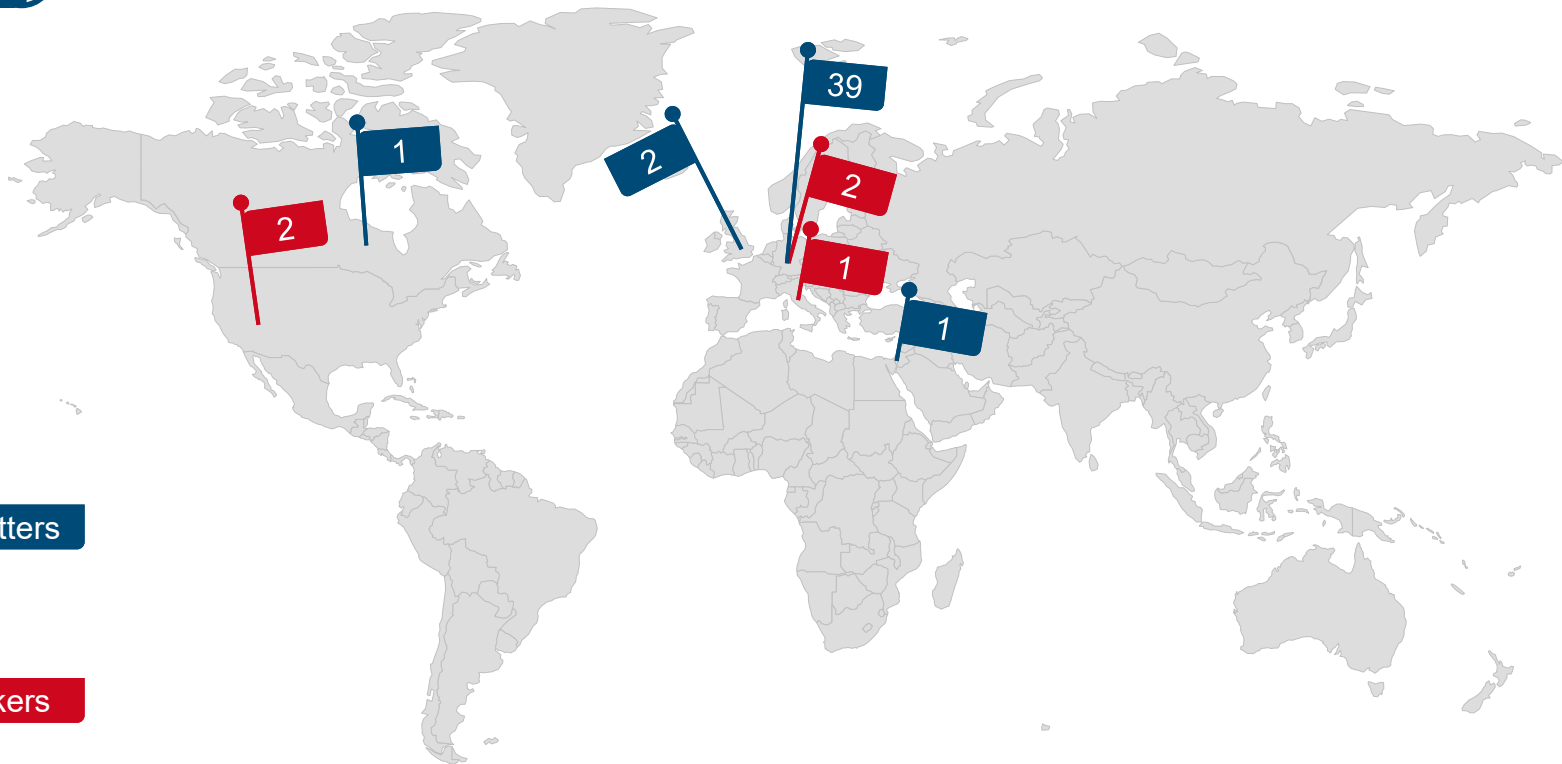


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Origin of the Keynote Speakers and Abstract Submitters



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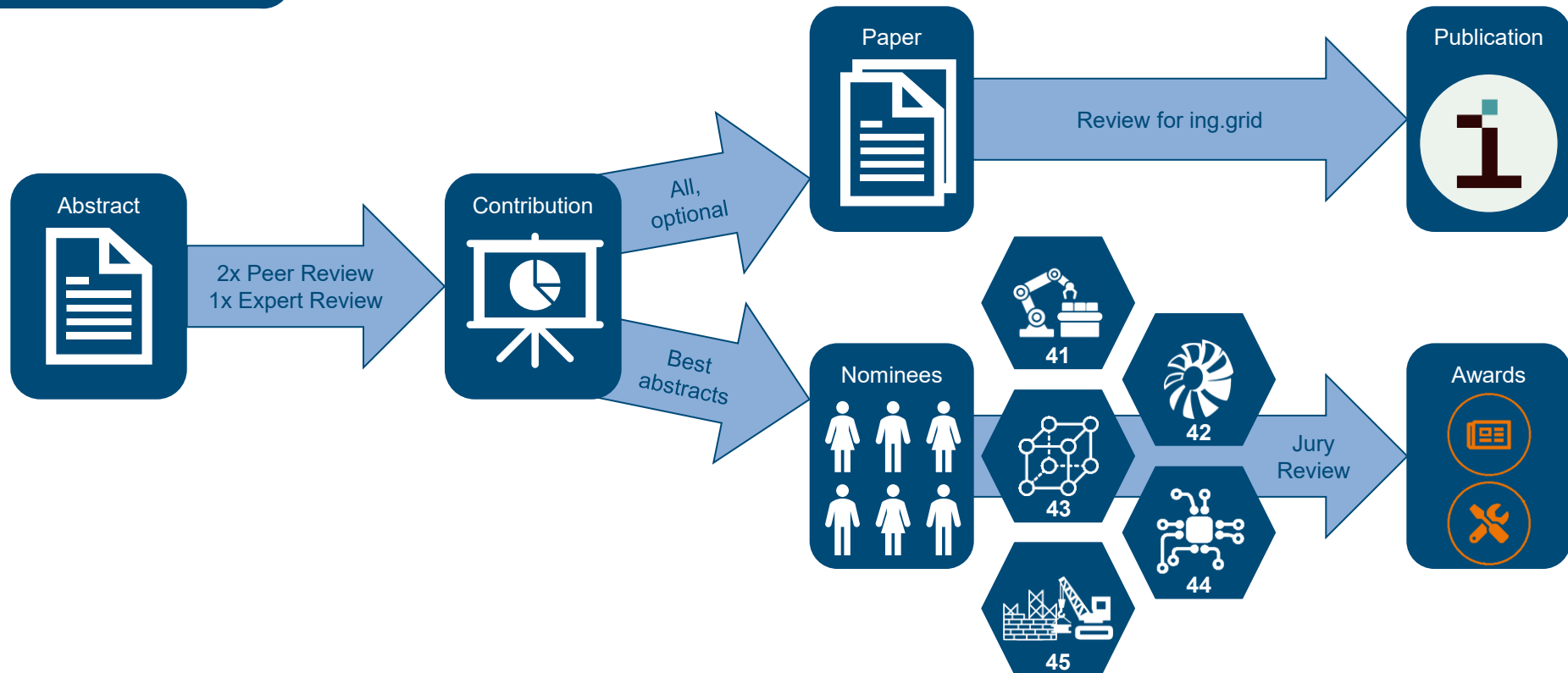


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Construction engineering
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Awards

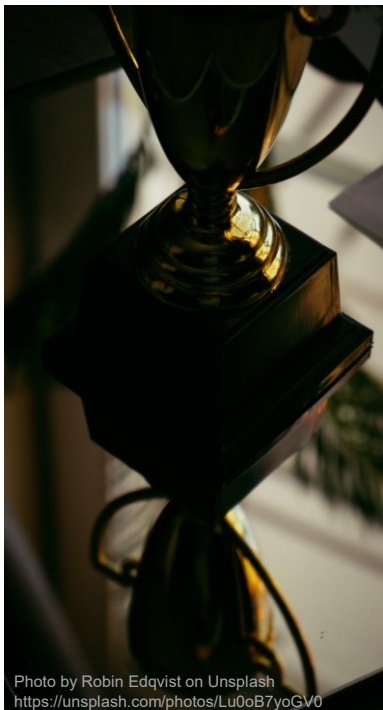


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(University of Oldenburg – Department of
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(Research Space, Edinburgh, Scotland,
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09:15 – 09:45

Keynote: "Data Management: Global challenges, Global Collaborations"

Hilary Hanahoe

Secretary General Research Data Alliance



09:45 – 10:15

ing.grid – FAIR Publishing with Open Review

Kevin Logan

Chair of Fluid Systems, TU Darmstadt



10:15 – 10:30
Short Break




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Next Presentation:
10:30


Currently the contributions take place in the breakout rooms

	Presentations A	Presentations B	Workshops
10:30 – 12:00	Research Software	FAIR Research	Wikidata beginners' workshop
10:30 – 11:00	An approach to improve the reuse of research software	Documentation for FAIR Modelling	
11:00 – 11:30	Towards Improved Findability of Energy Research Software by Developing a Metadata-based Registry 	Maturity Models for RDM Processes – Data Access	
11:30 – 12:00	“Continuous” Integration of Scientific Software (in Computational Science and Engineering)	FAIR-IMPACT: Expanding FAIR Solutions across the European Open Science Cloud	



Click this icon in your zoom menu to go to one of the Breakout Rooms

 Breakout Session

 Reaktionen

 Mehr

Please also refer

to our agenda



12:00 – 13:00
Lunch Break



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nfdi4ing.de/survey



Next Presentation:
13:00



13:00 – 13:30



Keynote: "Data literacy - prerequisite for FAIR data supply and usage"

Prof. Dr.-Ing. Peter F. Pelz

Chair of Fluid Systems, TU Darmstadt



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	Presentations A	Presentations B	Workshops
13:30 – 14:30	Tools and Repositories	Ontologies	RSpace: An Electronic Lab Noteook designed to enhance FAIR workflows and FAIRification of research data  
13:30 – 14:00	Collaborative Metadata Definition using Controlled Vocabularies, and Ontologies - FAIR Data Showcase in Experimental Tribology	How GitOps solves Experiment Configuration Documentation	
14:00 – 14:30		Agile RDM with Open Source Software: CaosDB	



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Breakout Session



Reaktionen



Mehr

to our agenda



Please also refer

14:30 – 15:00
Coffee Break
and
Networking Session




Breakout Session

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Next Presentation:
15:00

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15:00 – 16:00	Interoperable Metadata	How to be FAIR	A No-Nonsense Guide to Higher Code Quality for Researchers - feat. Unit Testing
15:00 – 15:30	Automatic Extraction of Descriptive Metadata to Promote the Usage of RDM Tools	Making Research Data Findable - B2FIND	
15:30 – 16:00	A-Match: Facilitating Data Exchange Between Different Applications via API Matching 	SaxFDM – towards a comprehensive research data management support net-work for Saxony	



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Breakout Session



Reaktionen



Mehr

Please also refer

to our agenda



16:00 – 16:30

Keynote: "Building LIMS in FAIR Research Data communities"

Gretchen Greene Ph.D.
National Institute of Standards and Technology



NFDI4Ing Conference 2022

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Awards

16:30 – 16:45



NFDI4ing

Nominees for the NFDI4ing Award 2022 for the best RDM Solution

26.10.2022 ID: 809
11:00 - 11:30 Presentation

Effective Research Data Sharing during the Plant Evolution in the automated Production Domain

Fan Ji
(Institute of Automation and
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School of Engineering and
Design, Technical University
of Munich, Munich, Germany)

Nominee for:



26.10.2022 ID: 852
15:30 - 16:00 Presentation

Prepare RDM for Decentralized and Blockchain-Based Data Source

Wendy (Pengyin) Shan
(Digital Initiatives, University
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Nominee for:



27.10.2022 ID: 812
11:00 - 11:30 Presentation

Towards Improved Findability of Energy Research Software by Developing a Metadata- based Registry

Stephan Ferenz
(University of Oldenburg –
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Nominee for:



27.10.2022 ID: 826
13:30 - 14:30 Workshop

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Rory Macneil
(Research Space, Edinburgh,
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Nominee for:



Winner of the NFDI4ing Award 2022 for the best RDM Solution

RSpace: An Electronic Lab Noteook designed to enhance FAIR workflows and FAIRification of research data



ID: 826

Rory Macneil

Research Space

#ElectronicLabNotebook #Software #ELN #SampleManagement #Reproducibility



Nominees for the NFDI4ing Award 2022 for the best Conference Contribution

26.10.2022 ID: 831
13:00 - 14:30 Workshop

**Beyond Data Literacy in
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Critical Data Literacy**

Samira Khodaei
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**A-Match: Facilitating Data
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(DLR) Institute of Data
Science, Germany)

Nominee for:



**Winner of the
NFDi4ing Award 2022 for the best Conference Contribution**



ID: 852

Prepare RDM for Decentralized and Blockchain-Based Data Source

Wendy (Pengyin) Shan

Digital Initiatives, University of Alberta Library, Canada

#Blockchain #Dezentralization #DataSources #DataSharing #AccessManagement



NFDI4Ing Conference 2022

*Unifying the Understanding of RDM
in Engineering Science*

Outlook and farewell

16:45 – 17:00





NFDI4ing

Link to today's and yesterday's slides



As of now:

Today's and yesterday's slides are available as filedrop on Sciebo.

Via the „“-symbol and then „“ all files can be downloaded together.

URL: _____

<https://rwth-aachen.sciebo.de/s/tCKt7Az2oipvek4>

Password: _____

FetchMelfYouCan



At a later date:

All presentation slides will be made available as conference proceedings on zenodo.org with DOI

<https://zenodo.org/communities/nfdi4ing/>
(Will be announced via conference page)

Interactive feedback session

We would like to receive your feedback directly:
What did you like? What can be improved?

6

Questions

The feedback will be collected via Zoom

All responses are presented to all participants and are anonymous.

How to stay in touch

Archetypes

Solving problems of
special engineering
archetypes



Base Services

Generation of tools
and engineering-
related RDM
solutions



Special interest groups and sections

Overarching issues
and solutions



NFDi4ing Newsletter

Regular information
from across
NFDi4ing

<https://nfdi4ing.de/news/>



NFDi4ing Office

Reach our office via
geschaeftsstelle@nfdi4ing.de



Organizator E-Mail

Tobias Hamann:
t.hamann@wzl-mq.rwth-aachen.de

Mario Moser:
m.moser@wzl-mq.rwth-aachen.de





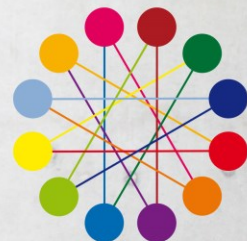
Save the Date

NFDI4Ing conference

September 27th & 28th 2023
hosted by TU Dresden and SLUB Dresden

We look forward to seeing you!

Pictures of the auditorium center: „© TUD/Liebert“
Image of the SLUB: „© SLUB Dresden/Henrik Ahlers“.



NFDI4Ing



NFDI4Ing Survey 2022
<https://nfdi4ing.de/survey>



Virtual Afterparty



Did you already take part in our survey on the topic of research data management (RDM) in engineering?

nfdi4ing.de/survey



SAVE THE DATE: The NFDI4ing conference 2023 will take place September 27th and 28th

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Author: Tobias Hamann

WZL | RWTH Aachen University

Organizational Development | Industrial Capabilities

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Campus Boulevard 30
52074 Aachen | GERMANY
Phone: +49 151 72921981
t.hamann@wzl.rwth-aachen.de
www.wzl.rwth-aachen.de
ORCID 0000-0002-8021-5524