NFDI4Ing Conference 2022

*Unifying the Understanding of RDM
in Engineering Science*

Fringe Programme

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NFDI4Ing Conference 2022

*Unifying the Understanding of RDM
in Engineering Science*

Arrival and virtual Check-In

08:45 – 09:00

NFDi4ing

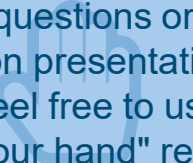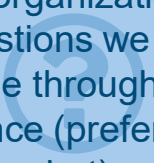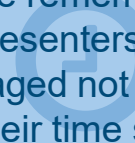## Organization ⚙ Some organizational notes

Please mute yourself during the presentations.
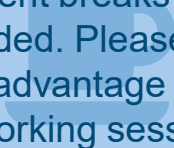
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For organizational questions we are available throughout the conference (preferably via chat).

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Sufficient breaks will be provided. Please also take advantage of the networking sessions.

All submitted presentation slides will be published collectively at the end. The conference will not be recorded.

Photo by Chris Montgomery on Unsplash
https://unsplash.com/photos/smgTvepind4

NFDi4ing

Agenda

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

Time			
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**		

Oriantation

Organizational orientation of the conference

Internationality

Scientificity

Origin of the Keynote Speakers and Abstract Submitters

NFDi4ing

Internationality

Origin of the registered participants

NFDI4Ing Conference 2022

Review process

Scientificity

Abstract

2x Peer Review
1x Expert Review

Contribution

All, optional

Best abstracts

Paper

Review for ing.grid

Publication

Nominees

41
42
43
44
45

Jury Review

Awards

Meet the Jury!

Dr.-phil. Ina Heine	**Dr.-Ing. Benjamin Lambie**	**Dr.-Ing. Michael Selzer**	**Dr. David Hecker**	**Dr. Jan Linxweiler**
RWTH Aachen University	TU Darmstadt	Karlsruhe Institute of Technology	German Aerospace Center (DLR)	TU Braunschweig

Mechanical and industrial engineering

Thermal engineering and process engineering

Materials science and engineering

Computer science, systems and electrical engineering

Construction engineering and architecture

41

42

43

44

45

NFDi4ing

| Scientificity | Q |

Awards

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€

Conditions apply: Nominated and awarded can be **all conference contributions**.

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

Photo by Robin Edqvist on Unsplash
https://unsplash.com/photos/Lu0oB7yoGV0

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

Photo by Nathan Dumlao on Unsplash
https://unsplash.com/photos/6VhPY27jdps

NFDi4ing

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

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

nfdi4ing.de/survey

Next Presentation: 13:00

NFDi4ing

Photo by Monika Grabkowska on Unsplash
https://unsplash.com/photos/114R2tFk8gl

Currently the contributions take place in the breakout rooms

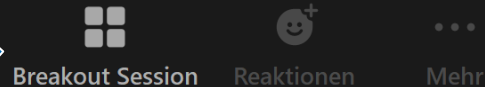|	Presentations A	Presentations B	Workshops
13:00 – 14:30	**Tools and Repositories**	**Ontologies**	Beyond Data Literacy in Engineering – What Media Literacy has to offer for Critical Data Literacy
13:00 – 13:30	Metadata and Terminology Services. A Toolchain for comprehensive Data- and Knowledge Management	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	

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Breakout Session   Reaktionen   Mehr

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NFDi4ing

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

Photo by tabitha turner on Unsplash
https://unsplash.com/photos/PSqT-lQAt7A

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
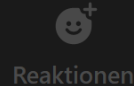
16:00 – 16:30

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

Bradley Wade Bishop Ph.D.
University of Tennessee

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

Passwort:

FetchMeIfYouCan

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.

NFDI4ing

Agenda

Toworrow's agenda structure

Photo by STIL on Unsplash
https://unsplash.com/photos/flRm0z3MEoA

Time	Session		
09:00-09:15	Welcome and programme overview		
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16:00-16:30	"Building LIMS in FAIR Research Data communities"		
16:30-16:45	Awards		
16:45-17:00	Outlook and farewell		

NFDI4Ing Conference 2022

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 2022 for the best 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, United Kingdom)

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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) Institute of Data Science, Germany)

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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

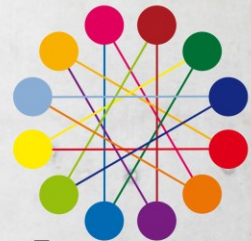Mario Moser:
m.moser@wzl-mq.rwth-aachen.de

Save the Date

NFDI4Ing conference

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

We look forward to seeing you!

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

NFDI4Ing Survey 2022

https://nfdi4ing.de/survey

NFDi4ing

Call for Participation

NFDi4ing

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**

Photo by Otávio Franco on Unsplash
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Welcome back to the NFDI4Ing Conference

Organization ⚙

Some organizational notes

Photo by Chris Montgomery on Unsplash
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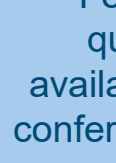
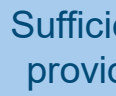Please mute yourself during the presentations.

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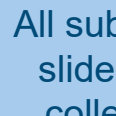
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12:00-13:00	**Lunch Break**
13:00-13:30	**"Data literacy - prerequisite for FAIR data supply and usage"**
13:30-14:30	**Collaborative Metadata** / **Supporting Software** / **RSpace**
14:30-15:00	**Coffee break and networking session**
15:00-16:00	**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**

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NFDI4Ing Conference 2022

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Organizational orientation of the conference

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Scientificity

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Origin of the Keynote Speakers and Abstract Submitters
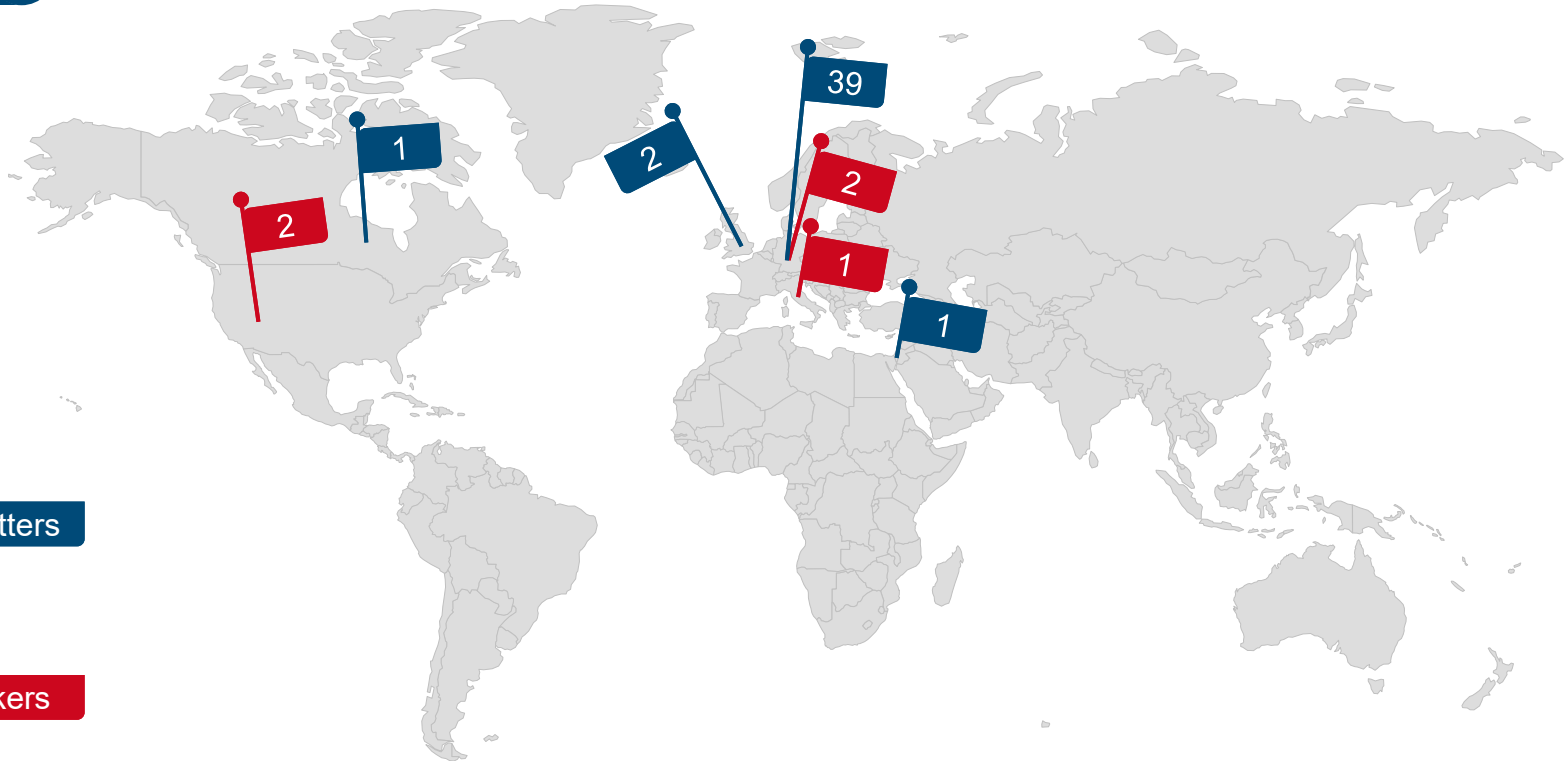
Abstract Submitters

Keynote Speakers

NFDI4Ing Conference 2022

NFDi4ing

Internationality

Origin of the registered participants

NFDI4Ing Conference 2022

NFDi4ing

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Abstract

2x Peer Review
1x Expert Review

Contribution

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Best abstracts

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Review for ing.grid

Publication

Nominees

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Jury Review

Awards

NFDi4ing
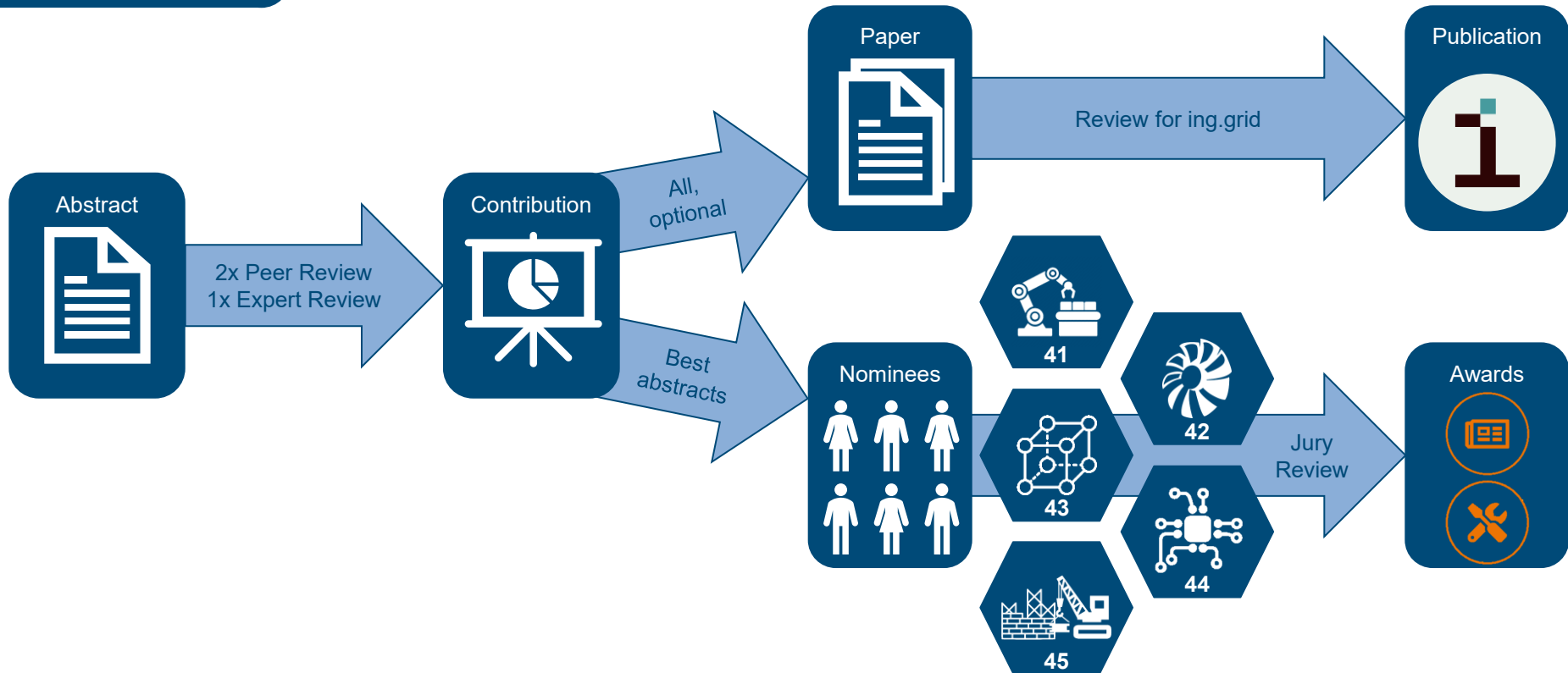
Meet the Jury!

| **Dr.-phil. Ina Heine**
RWTH Aachen University | **Dr.-Ing. Benjamin Lambie**
TU Darmstadt | **Dr.-Ing. Michael Selzer**
Karlsruhe Institute of Technology | **Dr. David Hecker**
German Aerospace Center (DLR) | **Dr. Jan Linxweiler**
TU Braunschweig |

Mechanical and industrial engineering

Thermal engineering and process engineering

Materials science and engineering

Computer science, systems and electrical engineering

Construction engineering and architecture

41

42

43

44

45

NFDi4ing

Scientificity 🔍 Awards

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NFDi4ing

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 2022 for the best 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, United Kingdom)

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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) Institute of Data Science, Germany)

Nominee for:

NFDI4Ing Award 2022 for the best Conference Contribution

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

NFDi4ing

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	**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

NFDi4ing

12:00 – 13:00
Lunch Break

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

nfdi4ing.de/survey

Next Presentation: 13:00

Photo by Monika Grabkowska on Unsplash
https://unsplash.com/photos/114R2tFk8gI

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

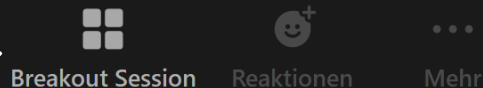# Currently the contributions take place in the breakout rooms

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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

Please also refer to our agenda

NFDi4ing

14:30 – 15:00
Coffee Break
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Photo by tabitha turner on Unsplash
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NFDI4ing

Currently the contributions take place in the breakout rooms

	Presentations A	Presentations B	Workshops
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	

to our agenda

Please also refer

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

Breakout Session   Reaktionen   Mehr

16:00 – 16:30

Keynote: "Building LIMS in FAIR Research Data communities"

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

Nominees for the NFDI4Ing Award 2022 for the best RDM Solution

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

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)

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

Prepare RDM for Decentralized and Blockchain-Based Data Source

Wendy (Pengyin) Shan
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27.10.2022 11:00 - 11:30	ID: 812 Presentation

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:

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

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

Rory Macneil
(Research Space, Edinburgh, Scotland, United Kingdom)

Nominee for:

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

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

Samira Khodaei
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#Blockchain #Dezentralization #DataScources #DataSharing #AccessManagement

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

Passwort:

FetchMeIfYouCan

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

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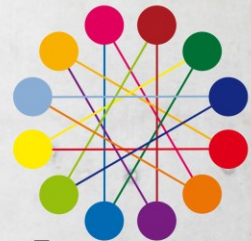
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Save the Date

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 Survey 2022

https://nfdi4ing.de/survey

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