



Bridging the Gap in Research Information with PIDs for Academic Events

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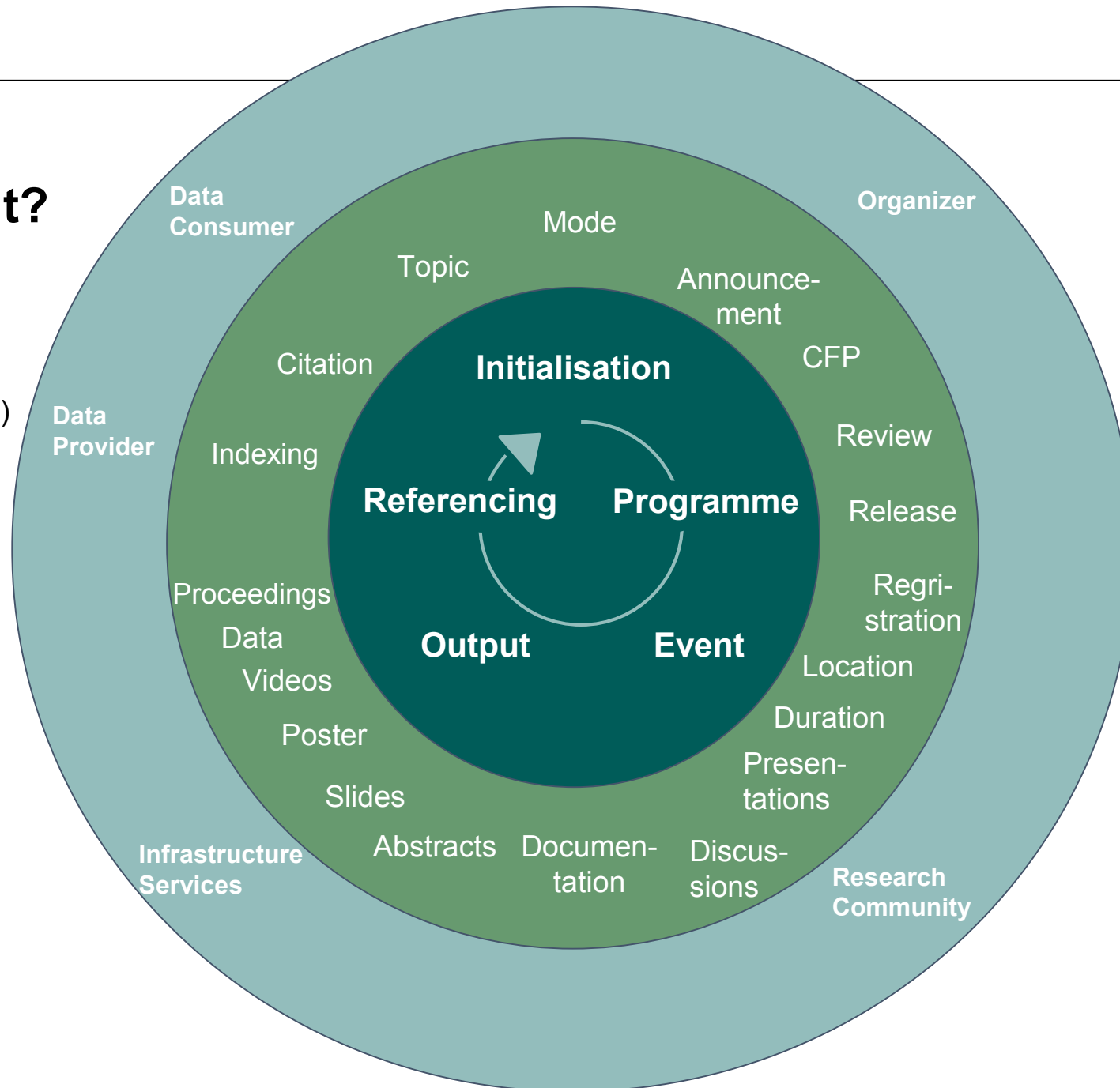
Leibniz Information Centre for Science and Technology (TIB) 



What is an Academic Event?

Data Provider & Consumer:

- Researcher
- Libraries
- Research Organizations (CRIS)
- Publisher
- PID Provider
- Conference Management Systems
- Conference Aggregation Platforms
- Projects and Initiatives



Organizer:

- Organization Committee
- Programme Committee
- Reviewer
- Researcher
- Research Organizations

Research Community:

- Individual Researcher
- Research Organizations
- Learned Societies
- Community Initiatives
- Funding Agencies

- Phase
- Step
- Stakeholder

PIDs for Academic Events

Why do we need them?

- Disambiguation of (meta)data
- Research integrity

Who needs them?

- All stakeholders of academic events

What has been done so far?

- Library standards
- Conference Platforms with internal IDs
- Working group on [PIDs for Conferences](#)

Global persistent identifiers for conferences and Crossmark for conference proceedings.

Authors

This document stems from the ideas discussed in the Crossref and DataCite working group on conference identifiers and project identifiers. Here is the list of people involved in the group:

1. Marcel R. Ackermann, Schloss Dagstuhl / DBLP
2. Aleksandr Birukou (chair), Springer Nature
3. Patricia Feeney, Crossref
4. Geoffrey Bilder, Crossref
5. Nhora Cortes-Comerel, ASME
6. Philip DiVietro, ASME
7. Martin Fenner, DataCite
8. Gerry Grenier, IEEE
9. Christina Hoppermann, Springer Nature
10. Bethan Keall, Elsevier
11. Anna Lacson, ACM
12. Andres Mori, Digital Science
13. Craig Rodkin, ACM
14. Swetize Roffel, Elsevier
15. Judy Salk, Elsevier
16. Kruna Vukmirovic, The IET
17. Alexander Wagner, DESY

The document has also benefited from comments by ...

1. Volha Bryl, Senior Data Specialist, Springer Nature
2. Maral Dadvar, Research Fellow, Stuttgart Media University
3. Sunje Dalmeier-Tiessen, Research Information Manager, CERN
4. Fleur van Dijk, Editorial Information Manager, Springer Nature
5. Michel Dirix, Product Owner, Springer Nature
6. Jan Dvorak, CERIF Task Group leader, euroCRIS
7. Kai Eckert, Head of the Group, Stuttgart Media University
8. Chris Erdmann, Library Carpentry Community & Development Director, California Digital Library
9. Pedro Ferreira, Indico Project Manager, CERN
10. Stephanie Hagemann-Wilholt, Researcher, Technische Informationsbibliothek (TIB)



Ackermann et al. (2018): [Global persistent identification for conferences and Crossmark for conference proceedings.](#)

Birukou et al. (2019): Towards Persistent Identification of Conferences. URL: <https://www.project-freya.eu/en/blogs/blogs/towards-persistent-identification-of-conferences>

What is ConfIDent ?

Search for relevant academic events



Archival of event information



Detailed descriptions of academic events



Exclusion of obvious predatory conferences



Unambiguous identification and linking of academic events

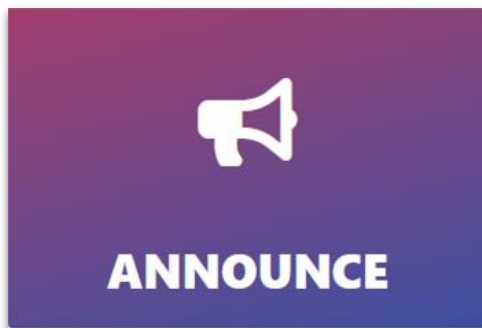


FAIR (Findable, Accessible, Interoperable, Reusable) Metadata



Selected Features of

ConfIDent



Deadlines

General Deadlines

Notification Deadline

Submission Deadlines

Abstract Deadline

Paper Deadline

Camera-Ready Deadline

Workshop Deadline

Demo Deadline

Poster Deadline

Tutorial Deadline

Submission Deadline

Organizer

+ Add another

Event

Acronym*

Title*

Ordinal

Event Series

Single Day Event* yes no

Start Date*

End Date*

Status*

Mode

Venue

City

Region

Country

Academic Field

Official Website

Submission Link

Registration Link

DOI

Hashtag

ConfIDent Metadata

Mapping on DataCite Metadata Schema

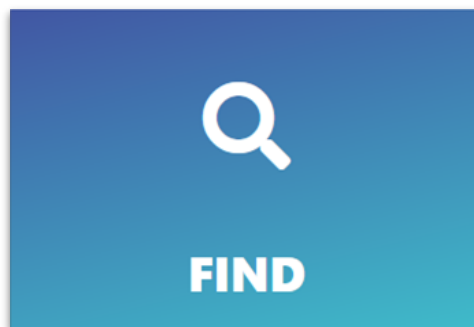
→ [Guidelines](#) on interpretation of schema

Development of Academic Event Ontology
([AEON](#))

Re-usability: CCO Licence

ConfIDent Prototype:

- Structured metadata
- Focus on core metadata for unique identification



PIDfest

Deadlines

23 Feb 2024 Submission	23 Apr 2024 Notification
---------------------------------	-----------------------------------

Metrics

Venue

Technická 2710/6, Prague, Czech Republic

Leaflet | © OpenStreetMap

Category: Event

Event

Title	PIDfest
Ordinal	1
Event Series	PIDFEST - PID Fest
Start Date	2024-06-11
End Date	2024-06-13
Status	as scheduled
Mode	hybrid
Venue	Technická 2710/6
City	Prague
Country	Czech Republic (CZ)
Academic Field	Digital Libraries, Library Science, Persistent Identifiers
Official Website	https://www.pidfest.org/
Submission Link	https://www.techlib.cz/en/84897-pidfest-conference
DOI	https://doi.org/10.25798/ajxz-f661

Organizer

Organization	<ul style="list-style-type: none"> • Australian Research Data Commons • National Library of Technology (Prague)
--------------	---

ConfIDent DOI: <https://doi.org/10.25798/ajxz-f661>

ConfIDent API

Semantic search

Options | Search

Clear all entries | ⓘ

Condition

[[Category:Event]]

Printout selection

Options

Broad table (default) ▾

Parameters [+]

limit:

The maximum number of results to return

offset:

The offset of the first result

link:

Show values as links

Sort options

▾

Ascending ▾

[Delete]


[Add sorting condition]

```

Event:C5dba1c7-e977-4d65-93f8-f210285c3a1d:
  printouts:
    Academic Field:
      0:
        fulltext: "Academic Field:Library Science"
        fullurl: "https://www.confident-conference.org:443/index.php/Academic_Field:Library_Science"
        namespace: 7300
        exists: "1"
        displaytitle: "Library Science"
      Acronym: []
    Title:
      0: "1. Deutscher Bibliothekartag"
    In Event Series:
      0:
        fulltext: "Event Series:8198acab-26f8-48df-98d0-c2bfb1941c29"
        fullurl: "https://www.confident-conference.org:443/index.php/Event_Series:8198acab-26f8-48df-98d0-c2bfb1941c29"
        namespace: 7100
        exists: "1"
        displaytitle: "BiblioCon"
    Start Date:
      0:
        timestamp: "-2208988800"
        raw: "1/1900"
    End Date:
      0:
        timestamp: "-2208988800"
        raw: "1/1900"
    Event Mode:
      0: "on site"
    Venue: []
    City:
      0: "Marburg"
    Region: []
    Country:
      0:
        fulltext: "Country:DE"
        fullurl: "https://www.confident-conference.org:443/index.php/Country:DE"
        namespace: 7400
        exists: "1"
        displaytitle: "Germany (DE)"
    Official Website:
      0: "https://www.udb-online.org/uecastal/tunnen/957/"
  
```

Linking of ...

... events to event series

 **PIDapalooza - PIDapalooza - the open festival for persistent identifiers**

Events

Year

2016
 2019
 2021

2018
 2020

PIDapalooza 2021

2021-01-27 → 2021-01-28

[Persistent Identifiers](#)

PIDapalooza 2020

2020-01-29 → 2020-01-30

[Persistent Identifiers](#)

PIDapalooza 2019

2019-01-23 → 2019-01-24

[Persistent Identifiers](#)

PIDapalooza 2018

2018-01-23 → 2018-01-24

[Persistent Identifiers](#)

PIDapalooza 2016

2016-11-09 → 2016-11-10

[Persistent Identifiers](#)

Event Series

Acronym: PIDapalooza
 Title: PIDapalooza - the open festival for persistent identifiers
 Academic Field: [Persistent Identifiers](#)
 Official Website: <https://www.pidapalooza.org/>
 DOI: <https://doi.org/10.25798/eb71-pp59>

Related Identifiers

Wikidata Series ID: [Q47486848](#)

Maintainer

Organization:

- [California Digital Library](#)
- [Crossref](#)
- [DataCite](#)
- [National Information Standards Organization](#)
- [ORCID](#)

Category: [Event Series](#)

ConfIDent DOI:

<https://doi.org/10.25798/eb71-pp59>

Linking of ...

... events to organizer

```
<identifier identifierType="DOI">10.25798/AJXZ-F661 </identifier>
  <creators>
    <creator>
      <creatorName nameType="Organizational">Australian Research Data Commons</creatorName>
      <nameIdentifier nameIdentifierScheme="ROR"
schemeURI="https://ror.org">https://ror.org/038sjwq14</nameIdentifier>
    </creator>
    <creator>
      <creatorName nameType="Organizational">National Library Of Technology</creatorName>
      <nameIdentifier nameIdentifierScheme="ROR"
schemeURI="https://ror.org">https://ror.org/028txef36</nameIdentifier>
    </creator>
  </creators>
  <titles>
    <title xml:lang="en">PIDfest</title>
  </titles>
```

Linking of ...

... events and event series to subject classification

<subjects>

<subject subjectScheme="Fields of Science and Technology (FOS)"
schemeURI="http://www.oecd.org/science/inno/38235147.pdf" classificationCode="1.2">FOS: Computer and
information sciences</subject>

</subjects>

The screenshot displays the 'Digital Libraries' website interface. At the top, there is a header 'Digital Libraries'. Below it, a section titled 'Event Series' contains a search box for 'Academic Field' with a dropdown menu showing 'Select a filter value'. To the right, an 'Academic Field' sidebar lists 'Academic Field' and 'OECD FOS 2007', with 'Computer And Information Sciences; Languages And Literature' selected. The main content area is a grid of 12 event series cards, each with a title and associated subject tags. The cards are: CIDOC Congress (Digital Libraries, Museum Studies, Cultural Heritage); CoRDI - Conference on Research Data Infrastructure (Digital Libraries, Research Data Management, Research Infrastructures); Code4Lib (Digital Libraries, Library Science, Software Development); DSpace Praxistreffen (Digital Libraries, Open Access); ECDL - European Conference on Digital Libraries (Digital Libraries); GLAM-Wiki - GLAM Wiki (Digital Libraries, Open Science, Library Science, Archiving, Digital Humanities, Museum Studies, Cultural Heritage, Galleries); ICADL - International Conference of Asian Digital Libraries (Digital Libraries); ICKGW - International Conference «Information, communication and knowledge curation in the globalized world» (Digital Libraries, Open Science, Library Science, Bibliometrics); JCDL - Joint Conference on Digital Libraries (Digital Libraries); LD4 - LD4 Conference on Linked Data (Semantic Web, Digital Libraries, Library Science, Linked Data); OR - Open Repositories (Digital Libraries, Library Science); and ORCID DE Workshops (Digital Libraries, Information Science, Open Science, Persistent Identifiers).

Linking to...

... other event identifiers:

The screenshot shows the OGND search results for the GND number 1268385727. The search criteria are 'suchen [und]' and 'GND-Nummer [NID]'. The results are sorted by 'Relevanz'. The search results show a list of records, with the first record being 'KONVENS (18. : 2022 : Potsdam)'. The record details include the K10plusPPN (1816925403) and GND-Nummer (1268385727). A red arrow points to the DOI 10.25798/37sf-fg41, which is highlighted in the 'Weitere Standardnummern:' field. Other fields include 'Katalogisierungsquelle: rda', 'Typ: Konferenz, Veranstaltung (vie)', 'Quelle: Homepage (Stand: 19.09.2022): Link zur Quelle', 'Beziehung zu Organisationen: Gesellschaft für Sprachtechnologie und Computerlinguistik [Veranstalter], Deutsche Gesellschaft für Sprachwissenschaft, Sektion Computerlinguistik, Österreichische Gesellschaft für Artificial Intelligence [Veranstalter]', 'Geografischer Bezug: Veranstaltungsort: Potsdam', 'Ländercode: XA-DE-BB [Brandenburg]', 'Zeitangaben: Veranstaltungsdaten: 12.09.2022 - 15.09.2022', and 'Weitere Namen: Konferenz zur Verarbeitung Natürlicher Sprache (18. : 2022 : Potsdam), Conference on Natural Language Processing (18. : 2022 : Potsdam)'.

... proceedings (planned):

The screenshot shows the TIB search results for 'konvens 2022'. The search criteria are 'konvens 2022'. The results are sorted by 'Relevanz'. The search results show a list of records, with the first record being 'Proceedings of the 18th Conference on Natural Language Processing/Konferenz zur Verarbeitung natürlicher Sprache (KONVENS 2022) : 12-15 September, 2022, University of Potsdam, Potsdam, Germany : KONVENS 2022 (Englisch)'. The record details include the title, the date '2022', and the type 'Konferenzband / Elektronische Ressource'. The DOI is https://doi.org/10.25798/37sf-fg41. The record is also marked as 'Freier Zugriff' (Open Access).

Re-use



<https://forschungsatlas.fid-bau.de/events>

16th International Conference on Cooperative Design, Visualization and Engineering Event

<https://www.confident-conference.org:443/index.php/Event:4492f99b-a206-43ac-bc3b-c3e55592599e>

Overview Contact Identity View All

date/time interval

2019-10-06 - 2019-10-09

has subject area

architecture

held in geographic location

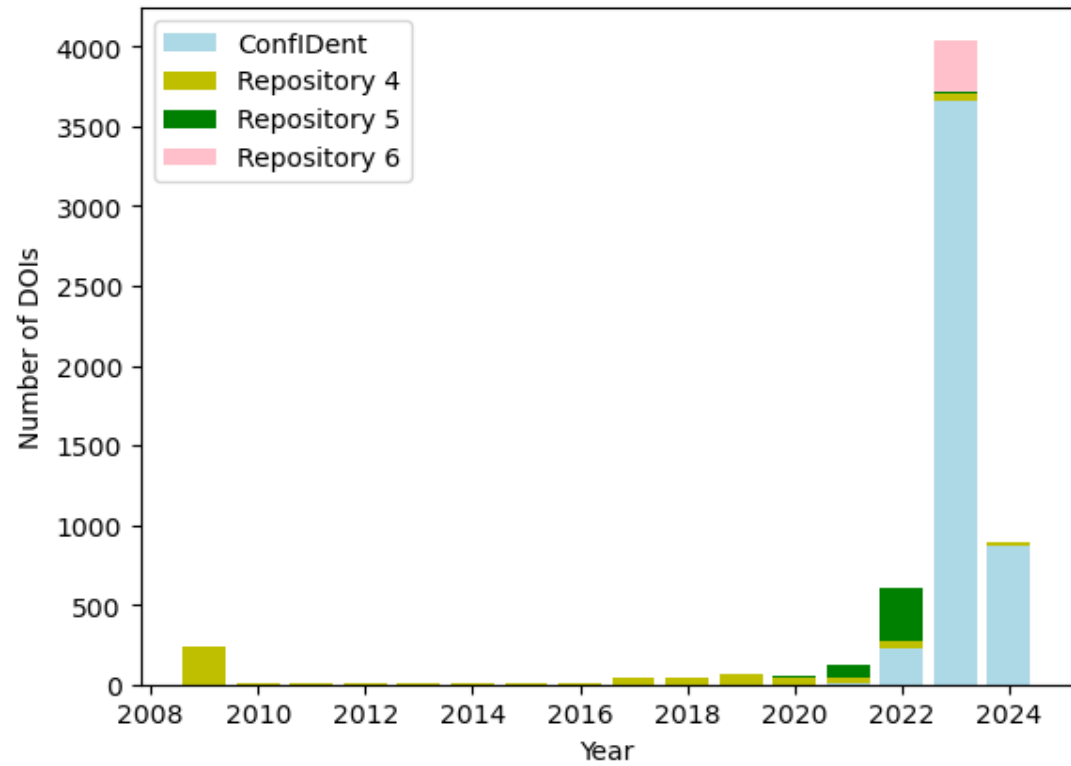
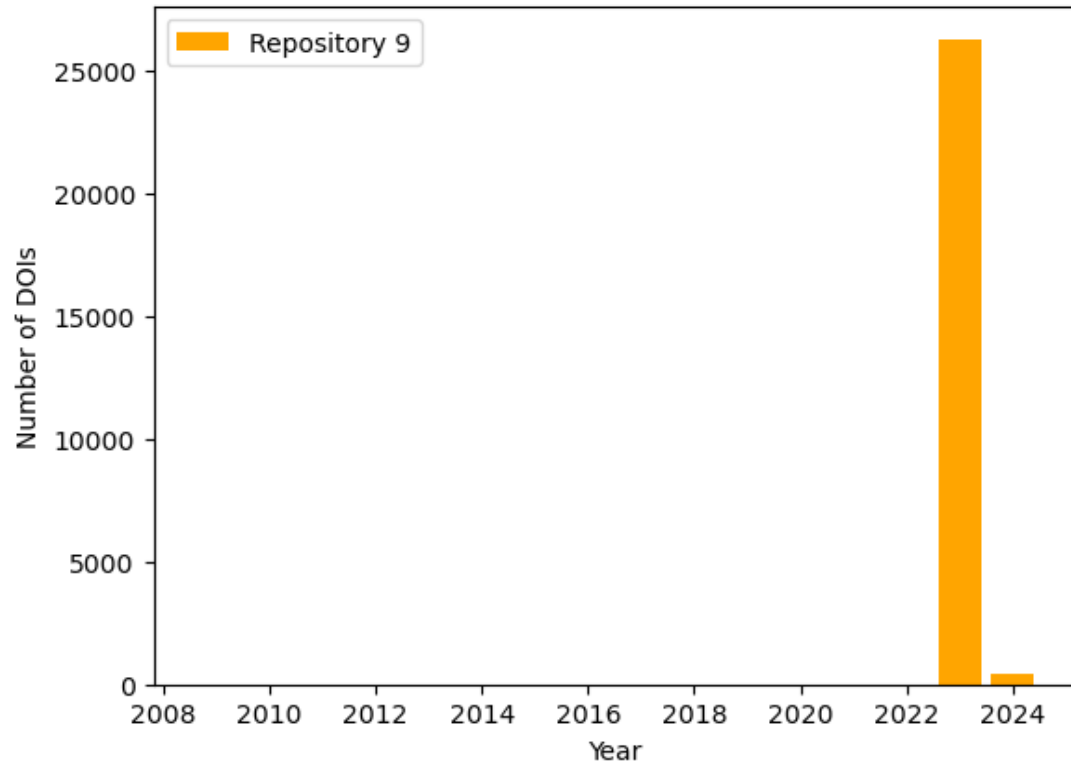
Pollentia

Digital Object Identifier (DOI)

<https://doi.org/10.25798/w1vw-dt15>

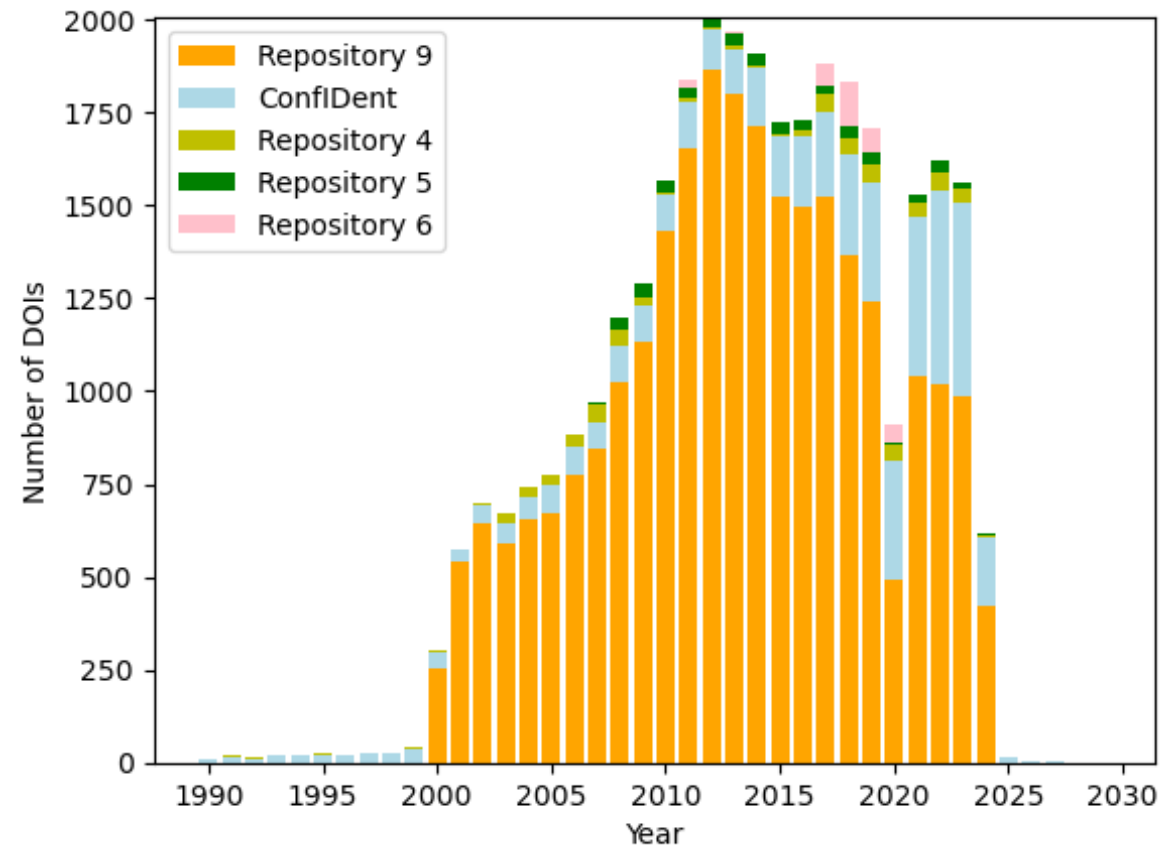
<https://forschungsatlas.fid-bau.de/individual/4492f99b-a206-43ac-bc3b-c3e55592599e>

DataCite Event-DOIs Metadata: Registration Year



Numbers as of 24 May 2024

DataCite Event-DOIs Metadata: Publication Year



Numbers as of 24 May 2024

DataCite Event-DOIs Metadata: Organizers & Organizing Institutions

...and how to find them (1): Which DataCite metadata field?

Repository 9: Not (findably) reflected in the DOI metadata

Repository 4,5 and 6:

Institutional repositories registering events of same institution → Organizing institution will (probably) be identical with Publisher

Persons as organizers:

Repository 4: Creators – ? (Persons providing main content of event, not necessarily also organizers)

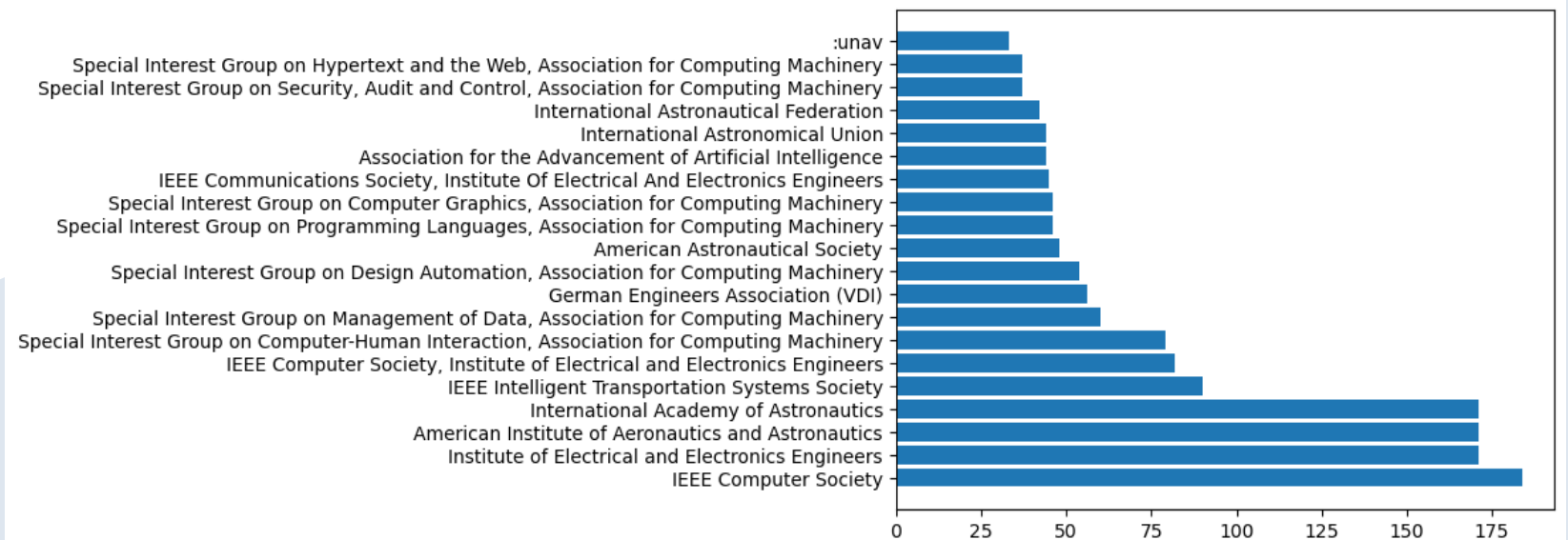
Repository 5: Creators (Persons denoted as organizers on landing page of event)

Repository 6: Creators – ? (Partly persons providing main content of event, partly unclear)

ConfIDent: Creators (Organizing institutions)

... and how to find them (2): Which designation?

ConfIDent Event-DOIs: Organizing institutions per Name



DataCite Event-DOIs Metadata: Organizers & Organizing Institutions

...and how to find them (1): Which DataCite metadata field?

Repository 9: Not (findably) reflected in the DOI metadata

Repository 4,5 and 6:

Institutional repositories registering events of same institution → Organizing institution will (probably) be identical with Publisher

Persons as organizers:

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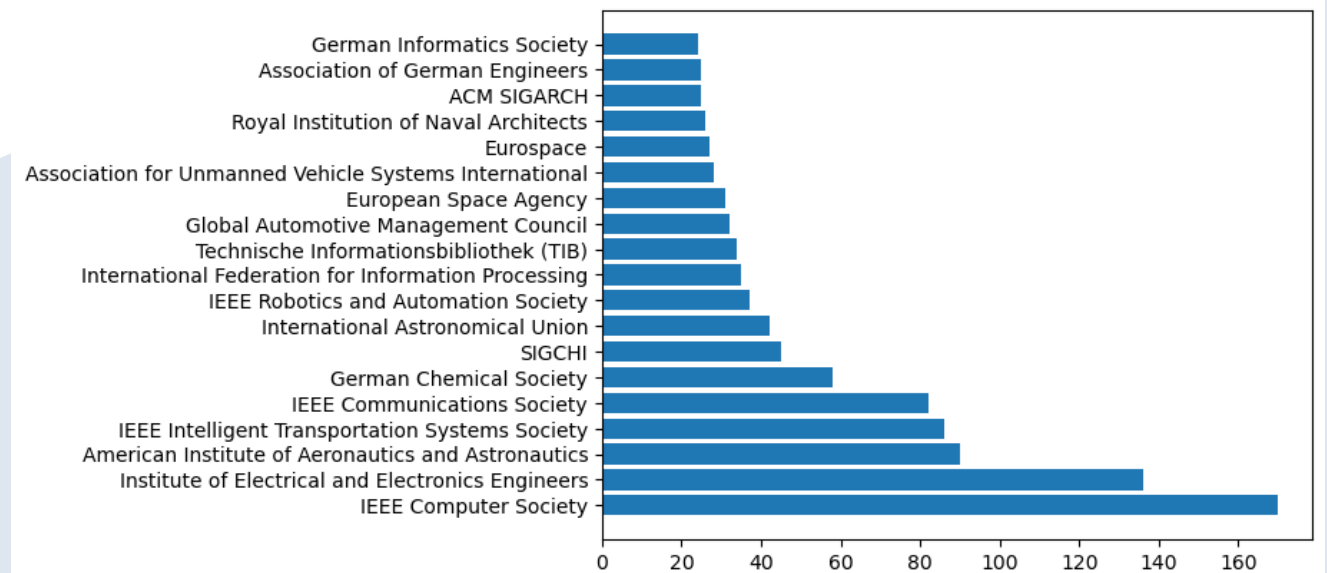
Repository 5: Creators (Persons denoted as organizers on landing page of event)

Repository 6: Creators – ? (Partly persons providing main content of event, partly unclear)

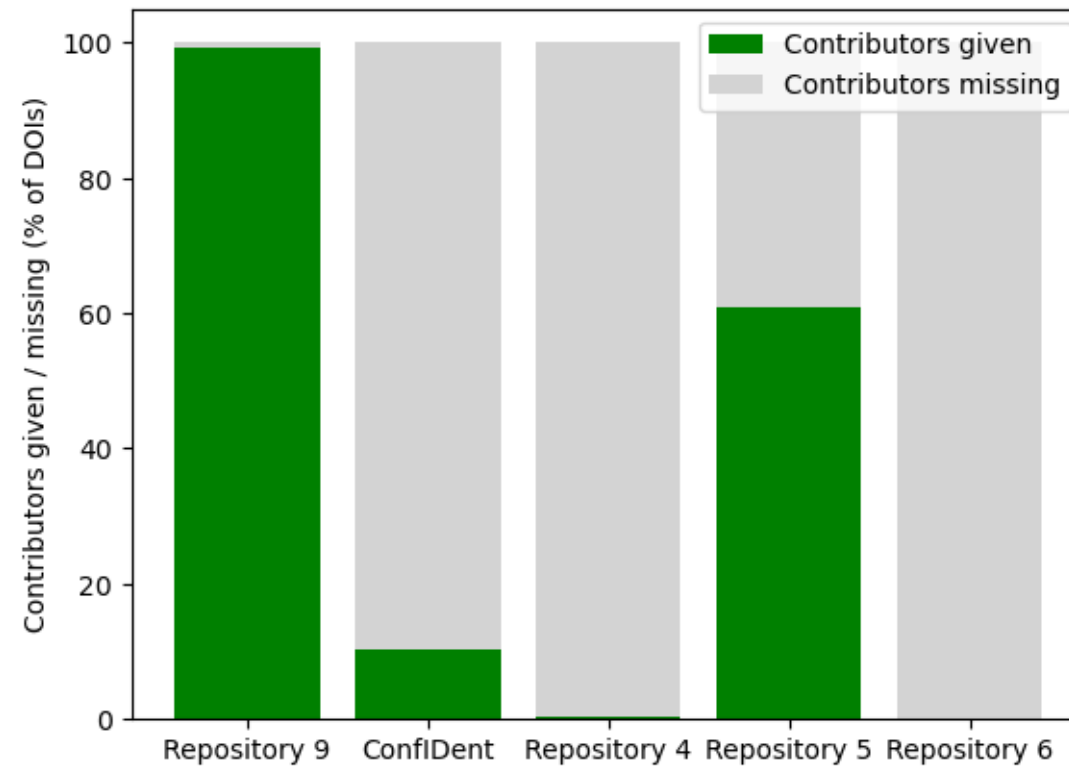
ConfIDent: Creators (Organizing institutions)

... and how to find them (2): Which designation?

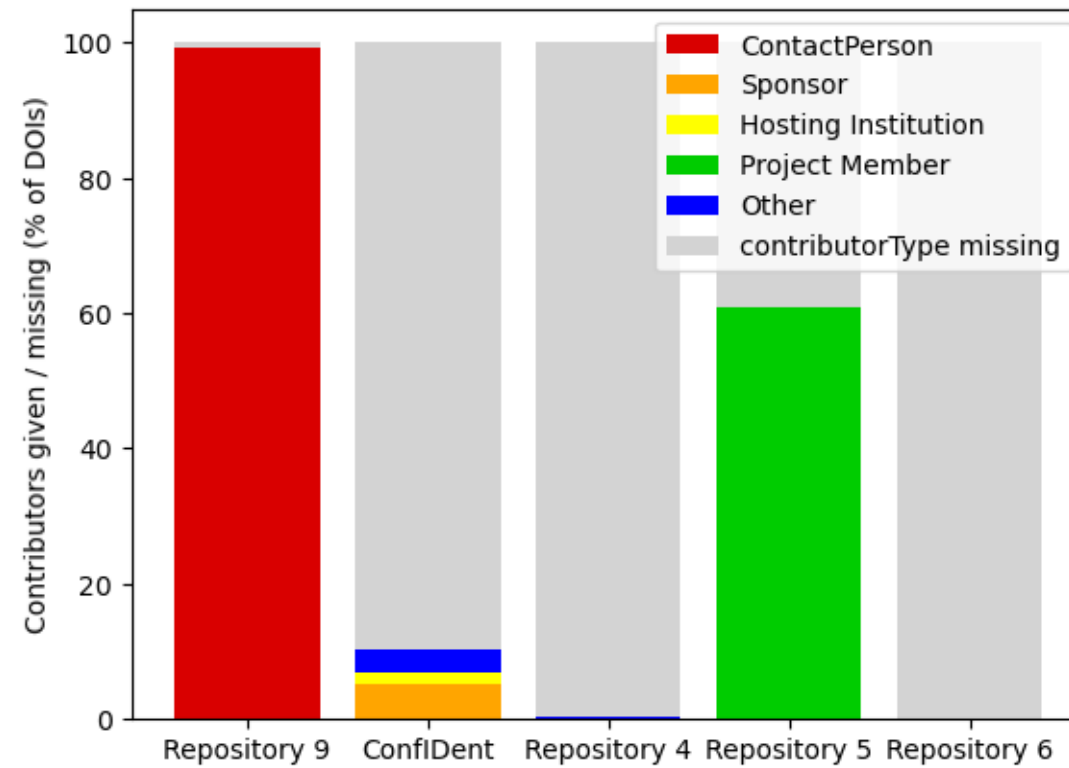
ConfIDent Event-DOIs: Organizing institutions per Identifier
(Metadata completeness: 47 %)



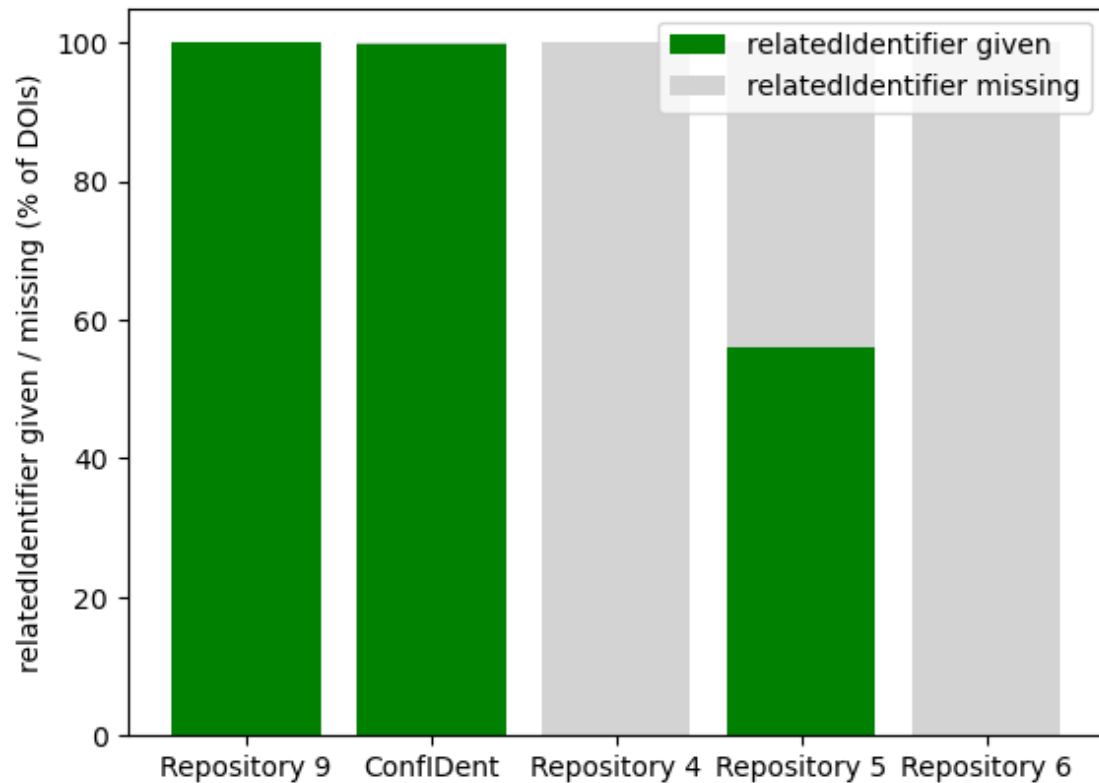
DataCite Event-DOIs Metadata: Contributors



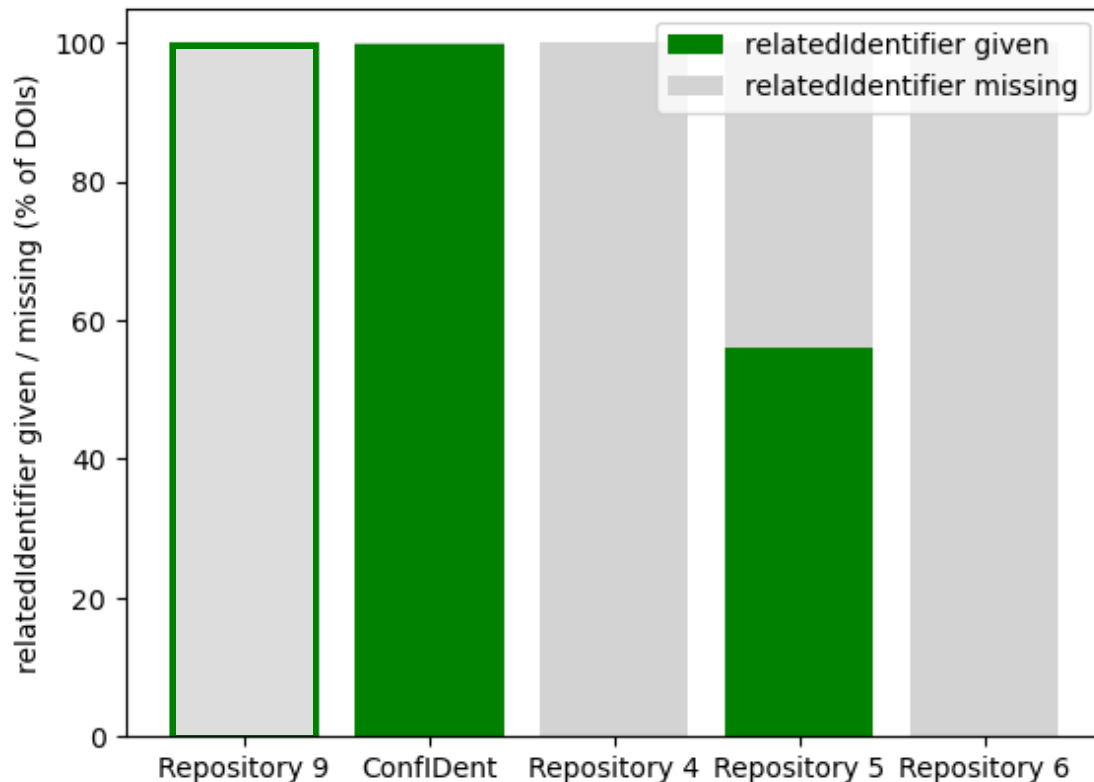
DataCite Event-DOIs Metadata: Contributor Types



DataCite Event-DOIs Metadata: Related Identifiers



DataCite Event-DOIs Metadata: Related Identifiers



Relation Types of Related Identifiers:

Repository 9:

IsPartOf + ID of repository-related service: given for 100 % of DOIs;
100 % of relatedIdentifier

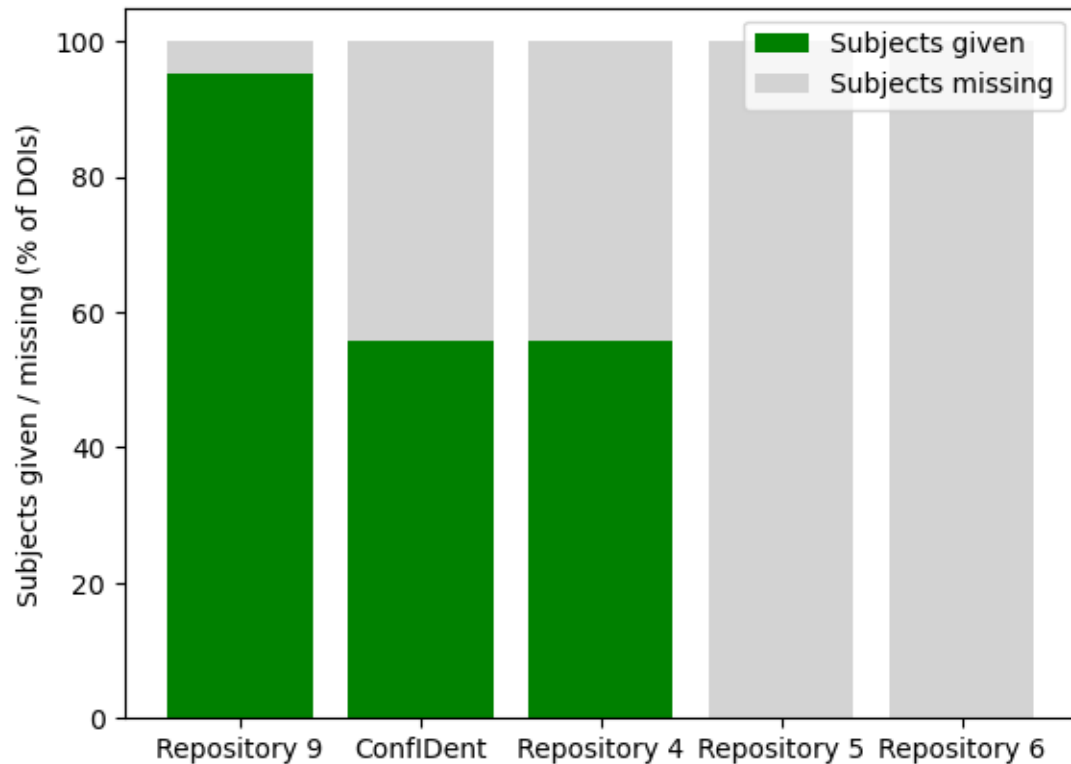
ConfIDent:

IsPartOf : given for 98 % of DOIs; 47% of relatedIdentifiers
→ event series
IsDocumentedBy : given for 14 % of DOIs; 9% of relatedIdentifiers
→ conference proceedings, audiovisuals/recordings, presentations/slides, pdf of program, ...
IsDescribedBy : given for 73 % of DOIs; 35 % of relatedIdentifiers
→ original event website (by hosting institution)
IsReviewedBy : 2 occurrences
→ link to review process information
IsSupplementedBy : given for 16 % of DOIs; 8,5 % of relatedIdentifiers
→ conference proceedings, presentations ...
HasPart : given for 0,5 % of DOIs; 0,5 % of relatedIdentifiers
→ contributions, events at events
Continues : 5 occurrences
IsDerivedFrom : 1 occurrence
Total connections by relatedIdentifier : 10002 (> 2 per DOI on average)

Repository 5:

HasPart : given for 50 % of DOIs; 95 % of relatedIdentifiers
→ (recordings of) contributions, events at events
IsPartOf : given for 12 % of DOIs; 5 % of relatedIdentifiers
→ larger event
Total connections by relatedIdentifier : 1116 (> 2 per DOI on average)

DataCite Event-DOIs Metadata: Subjects / Fields of Science



Repository 9:

Subject scheme: internal
Strong bias towards humanities

ConfIDent:

Subject scheme: Fields of Science
Strong bias towards pilot communities (engineering, computer and information sciences, transport and mobility)

Repository 4:

Partly subject, partly subject scheme, partly document/resource type information

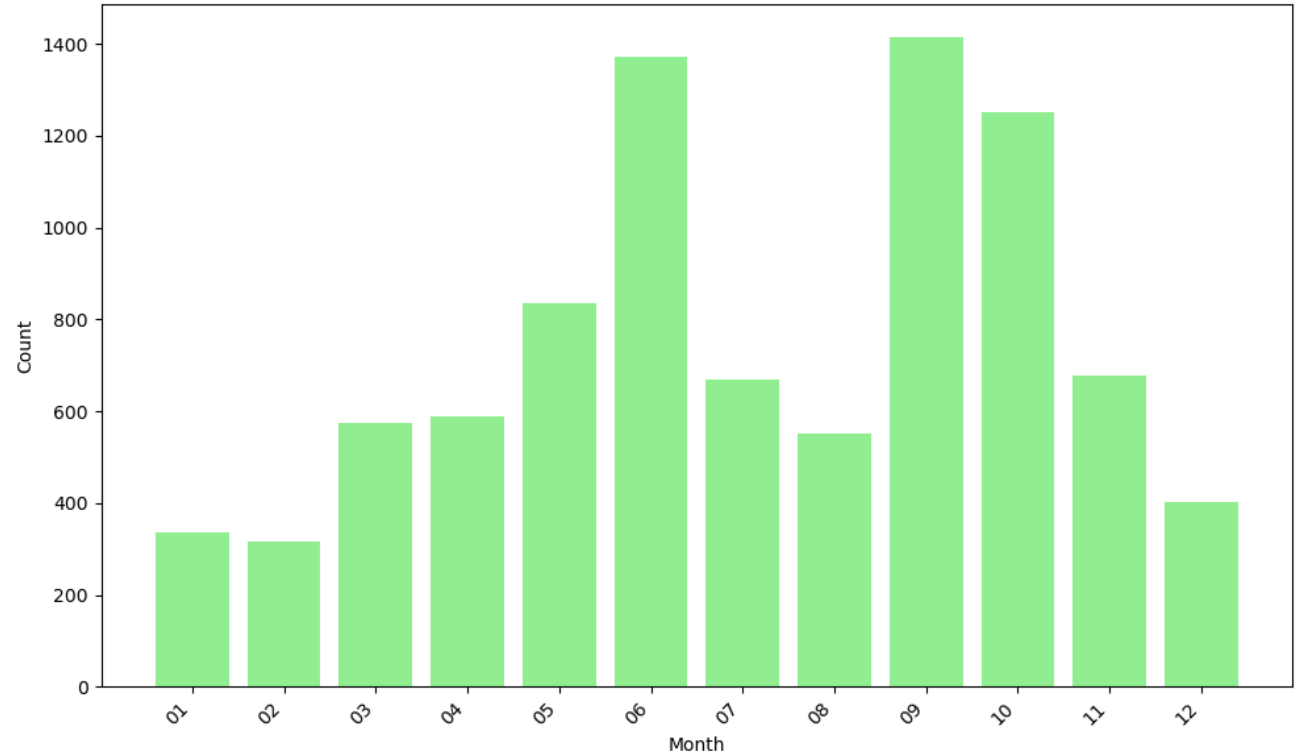
→ different standards and interpretations of metadata fields reduce comparability

ConfIDent Metadata: Geolocations & Conference Seasons

Academic event counts, top 25 countries



Academic events per month (accumulated)



Analysis based on event metadata sets registered in ConfIDent, 28 May 2024 and 30 May 2024

Outlook ...

Metadata

- ❖ Automatization of workflows
- ❖ Further integration of data model to include output, people, programs, incl. (P)IDs → linking entities
- ❖ Collection at early stage of event life cycle (via CMS) → subsequent use in RIS, discovery services and open metadata services
- ❖ ...

Technical Base

- ❖ Automatization of workflows
- ❖ Enable writing API access
- ❖ Optimized search
- ❖ Improve usability
- ❖ ...

Community

- ❖ Building communities around disciplinary and subject-specific areas
- ❖ support research on scientific events
- ❖ support alternative research assessment
- ❖ ...

How to use ConfIDent ?

<https://www.confident-conference.org>

 [Request an account](#)

Contact:

confident@tib.eu

www.confident-conference.org



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