



Libraries & research data


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LIBER/SKS: Research Libraries and the EOSC
January 20th, 2021

The long tail of research data

„Big Science” (a term of *de Solla Price*) can easily make research data FAIR. Large projects build pipelines to produce and process data – these pipelines could be modified to fit the FAIR principles. Space agencies and other large, well funded organisations do have the means.

An example from Big Science: data from the Kepler satellite stored at Mikulski Archives for Space Telescopes.



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FEEDBACK

Finding flares in Kepler data using machine-learning tools

Show affiliations

Vida, Krisztián; Roettenbacher, Rachael M.

Context. Archives of long photometric surveys, such as the Kepler database, are a great basis for studying flares. However, identifying the flares is a complex task; it is easily done in the case of single-target observations by visual inspection, but is nearly impossible for several year-long time series for several thousand targets. Although automated methods for this task exist, several problems are difficult (or impossible) to overcome with traditional fitting and analysis approaches.

Aims. We introduce a code for identifying and analyzing flares based on machine-learning methods, which are intrinsically adept at handling such data sets.

FULL TEXT SOURCES

Publisher

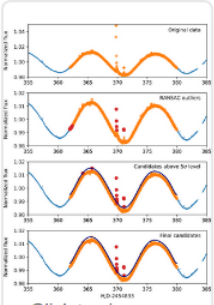
arXiv

DATA PRODUCTS

SIMBAD (3)

MAST (2)

GRAPHICS

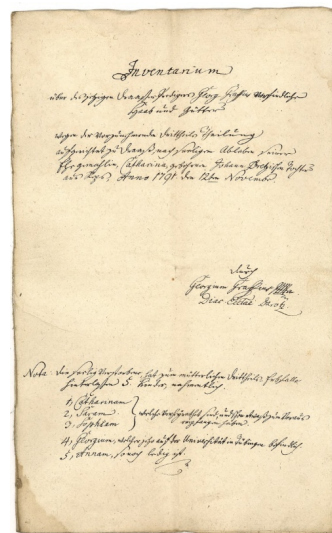


On the other hand, small projects will face a big challenge.

Individual scientists or small teams, in fields and in institutions not well founded, produce research data too – this is the long tail. Such data is important! (Though they might look different...)

IBVS 6223-t3.txt
 #Author: TERRELL, D. and NELSON, R.H.
 #Telescope: 25 cm f6.3 Schmidt-Cassegrain
 #Detector: SBIG ST-7XE CCD camera
 #IBVSdataKey: photometry
 #Object: Z Dra
 # Caption: Z Dra - Photometric Data
 # Filters: Johnson V,B

Filter: V
 # HJD-2400000 magnitude
 53432.57290 10.519000
 53432.57570 10.551000
 53432.57850 10.547000





Gulyás Pál: Magyar írók élete és munkái. Cédulatár

Készült az Informatikai és Hírközlési Minisztérium támogatásával

Gyorsválasztó: P R S T U V W X Y Z

Cédulák száma:
27138

P (4470)

Paál - Pajor
Pajor - Pál
Pál - Palásthy
Pálfi - Pálfi
Pálffy - Pallós
Pállya - Palotás
Palotás - Pannuhi
Panus - Papp Ferenc
Papp Ferenc - Papp
Jeno
Pap Jeno - Pap Mihály
Papp - Pápay
Pápai - Parragh
Parragh - Pásztói
Pásztor - Patak
Patak - Páter
Páter - Paul
Paul - Pável
Pável - Pécs
Péch - Pecz
Pecz - Pekár
Pekár - Perci



Összesített lista

2701.

Petrides Jenő

2735.

Petrók Gyula

Közig.példatár.(M.966)





2768.

Petrovics János
az Aradi Közlönyben

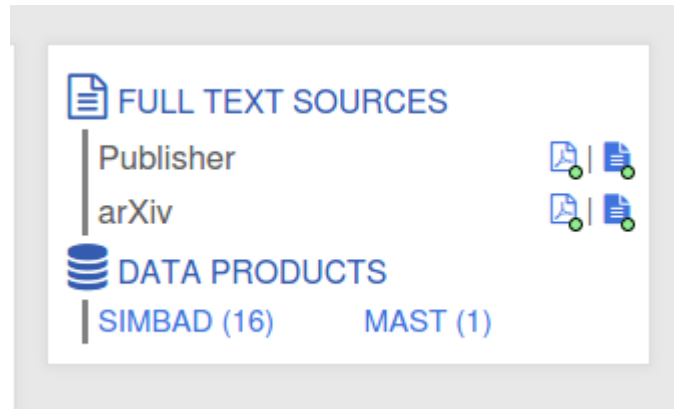
Making research data FAIR – the library way

Libraries have long experience of making documents discoverable using metadata, identifiers and classification systems. They have a long history of helping researchers. This expertise could be utilised for making sporadic data packages more FAIR.

- Ask your librarian for advice!

KEZDŐLAP	KUTATÓKNAK	KIADÓKNAK	FEJLESZTŐKNEK	PROJEKTEK	KAPCSOLAT	ESEMÉNYEK
<div><div>MTA OPEN ACCESS</div><p>A weboldal célja, hogy tájékoztassa a tudományos kutatás disszeminációjában résztvevőket a nyílt hozzáféréssel, online publikálással kapcsolatos ismeretéről, legújabb trendjeiről, segítséget nyújtson a megvalósításban, előmozdítsa az együttműködést és bemutassa az MTA Könyvtár és Információs Központban elérhető szolgáltatásokat.</p></div>						
<div>KIADÓKNAK</div>  <p>Kiadók számára tervezett szolgáltatások oldala</p>		<div>FEJLESZTŐKNEK</div>  <p>A hazai OJS és Egyrejt fejlesztő oldala</p>		<div>MTA Open Access</div>  <p>Az MTA nyílt hozzáféréseinek oldala</p>		

- The publication connection



- Data can be found through the related publication

- Discovery level metadata, Dublin Core descriptions

```

- <resource xsi:schemaLocation="http://datacite.org/schema/kernel-4 http://schema.datacite.org/meta/kernel-4.1/metadata.xsd">
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- <creators>
  - <creator>
    <creatorName>OBMQuery dinpi.openbiomaps.org</creatorName>
  </creator>
</creators>
- <titles>
  - <title>
    Database query for Violet click beetle from Duna-Ipoly National Park species occurrence
    database (doi: 10.18426/obm.23mj4em6bca0)
  </title>
</titles>
<publisher>Duna-Ipoly National Park</publisher>
<publicationYear>2017</publicationYear>
- <subjects>
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  <subject xml:lang="eng">species occurrences</subject>
  <subject xml:lang="eng">Limoniscus violaceus</subject>
  <subject xml:lang="eng">Violet click beetle</subject>
  <subject xml:lang="hun">kék pattanó</subject>
</subjects>
- <contributors>
  - <contributor contributorType="DataCollector">
    <contributorName>Bércecs, Sándor</contributorName>
  </contributor>
</contributors>

```

- Data quality and certification

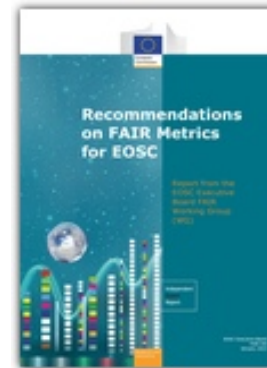
- The referee of the publication must see the data!
- The library might consider a CoreTrustSeal certification for the repository.



- Data standards

EOSC FAIR WG Metrics & Certification documents

- *Recommendations on FAIR metrics for EOSC*
DOI: [10.2777/70791](https://doi.org/10.2777/70791)
- *Recommendations on certifying services required to enable FAIR within EOSC*
DOI: [10.2777/127253](https://doi.org/10.2777/127253)



- Technical issues

- Keep it simple!
(TXT, XML, JSON, PDF, etc.)

[CompressedTubeContactMeasurements_figure.pdf](#)



Text

CompressedTubeContactMeasurements_figure.pdf

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Text

CompressedTubeContactMeasurements_1.csv

[Download \(37kB\)](#)

- Legal or re-use issues

- sensitive areas, indirect checks
- re-use licence



- Grey literature - documentation

- Important library task - archive the documentation!
(Technical documentation, DMPs, project reports, etc.)

REAL-EOD



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Kobold, Hermann (1880) *Klinkerfuesische neue Constanten zur Reduction auf den scheinbaren Ort, berechnet von Dr. phil. H. Kobold.* [s.n.], O-Gyalla.



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Item Type: Book
Subjects: [O Science / természettudomány > O1 Science \(General\) / természettudomány általában](#)
SWORD ALEPH SWORD
Depositor:
Depositing User: ALEPH SWORD
Date Deposited: 13 Jan 2021 10:13
Last Modified: 13 Jan 2021 10:15
URI: <http://real-eod.mtak.hu/id/eprint/9414>

Actions (login required)

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– PIDs

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- PROVIDE

My library (Library and Information Centre, Hungarian Academy of Sciences) is a member of both CrossRef and DataCite.



- FAIR is a journey



(Kumano Kodo by David West)

Training and support

Which organisational unit will be responsible for the research data? The library is an option.

Who will train the data stewards, and who will train and advise the researchers? The library is an option.

Broad participation

If we set the threshold of FAIRness too high, we would loose datasets and communities. If it is too low, we would loose functionality. That is the reason for the slogan “FAIR is a journey”. Try to make your data discoverable and accessible. Then You might improve your data handling practices.

Publishers try to dictate the terms of archival
– and libraries seem to have a different
view.

See [COAR's statement](#) on the issue.

A banner image showing the silhouettes of five people standing on a rocky cliff, raising their arms in celebration against a dark, hazy sky. The text "Input to 'Data Repository Selection: Criteria that Matter'" is overlaid in white.

Input to “Data Repository Selection: Criteria that
Matter”

Questions?

Thank You!