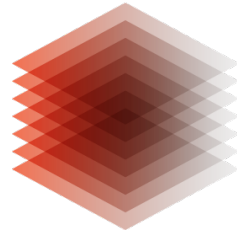


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TIB

Tools und Software für die Forschungsdatenhaltung – ein Überblick

Dr. Janna Neumann
Berlin, 11. Juni 2018
7. Workshop des Arbeitskreis Forschungsdaten

Forschungsdatenhaltung

Was heißt hier Forschungsdatenhaltung?

- **Archivierung** und **Publikation** von Forschungsdaten

Wo werden Daten archiviert und publiziert?

- **Forschungsdaten-Repositorien**
 - Informationsinfrastrukturen, die Forschungsdaten über einen unbegrenzten Zeitraum aufbewahren und der weltweiten Fachöffentlichkeit online verfügbar, zitierbar und nachnutzbar machen

Technik

- Repository Software

Repository-Software

- **Überblick** über bestehende **Repository-Software** und **Nutzungsbeispiele**
- Auswahl mit Schwerpunkt auf frei verfügbare (nicht kommerzielle) Software:
 - Dspace
 - Invenio
 - Ckan
 - Dataverse
 - Fedora
 - Eprints

Was dieser Vortrag **nicht** beinhaltet:

- Keine tiefergehende technische Details zu einzelner Software
- Keine vergleichende Betrachtung
- Keine Empfehlung für oder gegen einzelne Software

DSpace

- Entwicklung: DuraSpace (Mitentwicklung durch MIT)
- <https://duraspace.org/dspace/>
- Freie Software
 - Verbreitung unter BSD-2-Clause
 - use, modify, and integrate the code into (commercial) application without paying any licensing fees
- Programmiersprache: Java, XSLT, JavaScript
- Handle-System für Persistente Identifier integriert
- Unterstützung aller Dateiformate
- OAI-PMH Schnittstelle
- CC-Lizenzvergabe möglich
- Rechteverwaltung
- Ursprünglich für Dokumentenserver
- Vielfach ausgeweitet für Forschungsdaten

Dspace - Beispiel

- Dryad
(<https://datadryad.org/>)

DRYAD

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- Isaac IO, Munir I, al-Rashida M, Ali SA, Shafiq Z, Islam M, Ludwig R, Ayub K, Khan KM, Hameed A (2018) Data from: Novel acridine-based thiosemicarbazones as "turn-on" chemosensors for selective recognition of fluoride anion: a spectroscopic and theoretical study. *Royal Society Open Science* <https://doi.org/10.5061/dryad.9nq2kc4>
- Steiner FM, Csősz S, Markó B, Gamisch A, Rinnhofer L, Folterbauer C, Hammerle S, Stauffer C, Arthofer W, Schlick-steiner BC (2018) Data from: Turning one into five: integrative taxonomy uncovers complex evolution of cryptic species in the harvester ant *Messor "structor"*. *Molecular Phylogenetics and Evolution* <https://doi.org/10.5061/dryad.mj43d20.2>
- Mardoum WM, Gorczyca SM, Regan KE, Wu T, Robertson-Anderson RM (2018) Data from: Crowding induces entropically-driven changes to DNA dynamics that depend on crowder structure and ionic conditions. *Frontiers in Physics* <https://doi.org/10.5061/dryad.77g469g>
- Roley SS, Duncan DS, Liang D, Garoutte A, Jackson RD, Tiedje JM, Robertson GP (2018) Data from: Associative nitrogen fixation (ANF) in switchgrass (*Panicum virgatum*) across a nitrogen input gradient. *PLOS ONE* <https://doi.org/10.5061/dryad.60bn81v>
- Trierweiler AM, Winter K, Hedin LO (2018) Data from: Rising CO2 accelerates phosphorus and molybdenum limitation of N2-fixation in young tropical trees. *Plant and Soil* <https://doi.org/10.5061/dryad.07nd0hc>

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- Ullrich, Peter 57
- Lepa, Steffen 55
- Juurink, Ben 46
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- Ammon, Sabine 23
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2018-06-07 Kumulative Dissertation

Network Science – Applications in Technology, Business and Social Media

Invenio

- Entwicklung: CERN Document Server Software Consortium
- <https://inveniosoftware.org/>
- Freie Software
 - GPL Lizenz
 - run, study, share and modify the software
- Programmiersprache: Python
- OAI-PMH-Schnittstelle
- Persistent Identifier-System (DOI/Handle)
- CC-Lizenzvergabe
- Als Dokumentenserver aber auch für Datenpublikation geeignet

Invenio – Beispiel

Zenodo

<https://zenodo.org/>



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May 18, 2018 (v2)
Dataset
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View

Historical climate model output of ECHAM5-wiso from 1871-2011 at T106 resolution

 Nathan J. Steiger

Historical climate model simulation of the isotope-enabled ECHAM5-wiso model from the years 1871 to 2011 at T106 (1 degree) resolution. The model code was provided by Martin Werner of AWI. The simulations were designed and run by Nathan Steiger on the Yellowstone supercomputer. The boundary...

Uploaded on May 18, 2018
1 more version(s) exist for this record

May 11, 2018 (v4)
Dataset
Open Access

View

A global network of biomedical relationships derived from text

Percha, Bethany; Altman, Russ B.

This repository contains labeled, weighted networks of chemical-gene, gene-gene, gene-disease, and chemical-disease relationships based on single sentences in PubMed abstracts. All raw dependency paths are provided in addition to the labeled relationships. PART I: Connects dependency paths to...

Uploaded on May 12, 2018
3 more version(s) exist for this record

May 8, 2018 (v1)
Presentation
Open Access

View

Software Citation and the Wikidata Ecosystem

 Thornton, Katherine

Slides for a presentation to the Force2017 Software Citation Implementation Working Group describing software and file format data in Wikidata and data validation using ShEx.

Uploaded on May 8, 2018

April 13, 2018 (v1.0.1)
Software
Open Access

View

Arrotron: Geometric Morphometrics Analyses

 Profico Antonio; Veneziano Alessio; Melchionna Marina; Piras Paolo; Raia Pasquale

Tools for geometric morphometric analysis. The package includes tools of virtual anthropology to align two not articulated parts belonging to the same specimen and to build virtual cavities as endocast. In addition, we supply functions to import and export the coordinates of landmarks and 3D...

Zenodo now supports DOI versioning!



[Read more](#) about it, in our newest blog post.

Using GitHub?



Just [Log in](#) with your GitHub account and [click here](#) to start preserving your repositories.

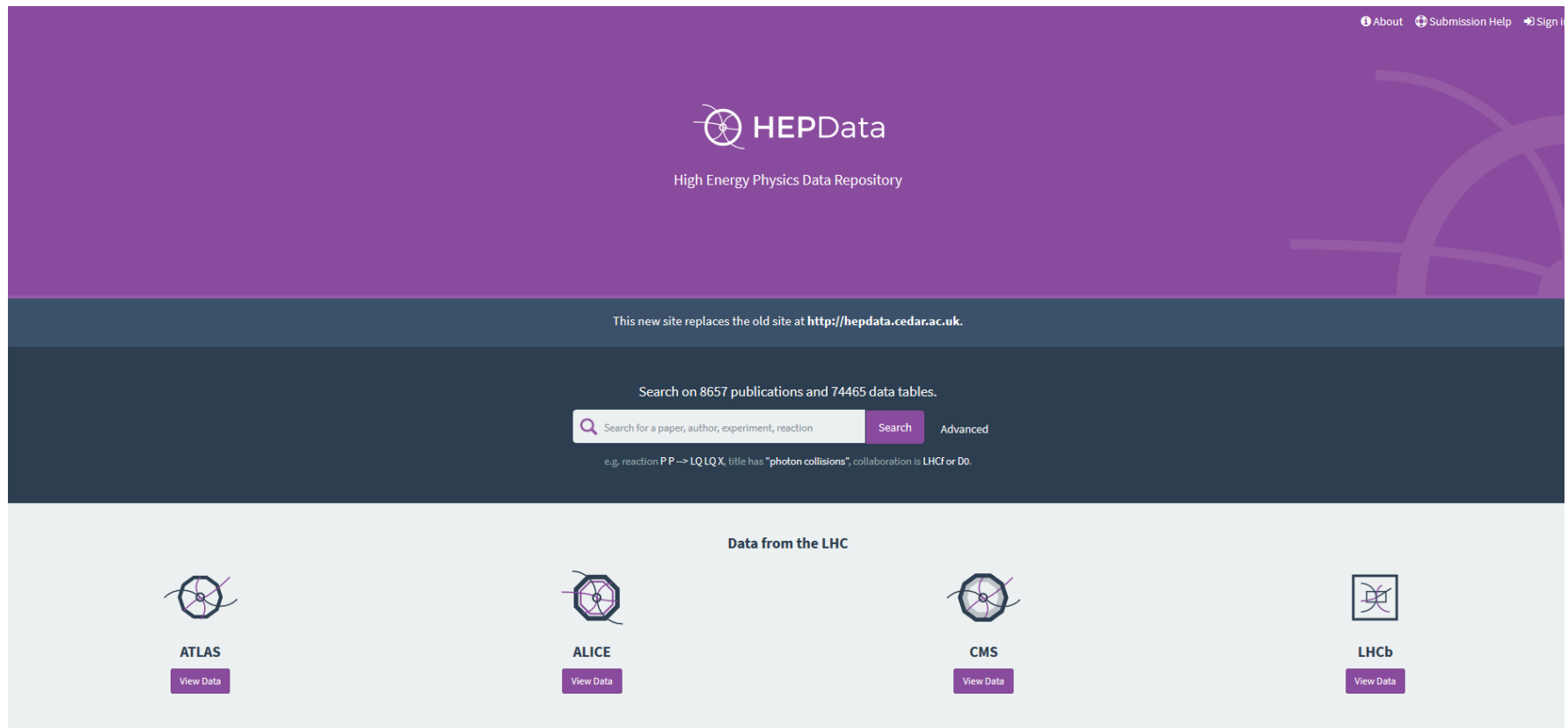
Zenodo in a nutshell

- **Research. Shared.** — all research outputs from across all fields of research are welcome! Sciences and Humanities, really!
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- **Communities** — create and curate your own community for a workshop, project, department, journal, into which you can accept or reject uploads. Your own complete digital repository!
- **Funding** — identify grants, integrated in reporting lines for research funded by the European Commission via OpenAIRE.
- **Flexible licensing** — because not everything is under Creative Commons.
- **Safe** — your research output is stored safely for the future in the same cloud infrastructure as CERN's own LHC research data.

Read more about Zenodo and its [features](#).

Invenio – Beispiel

- HepData: <https://hepdata.net/>



The screenshot shows the HepData website interface. At the top right, there are links for 'About', 'Submission Help', and 'Sign in'. The main header features the HepData logo and the text 'High Energy Physics Data Repository'. Below this, a dark blue banner states: 'This new site replaces the old site at <http://hepdata.cedar.ac.uk>.' The search section includes a text input field with the placeholder 'Search for a paper, author, experiment, reaction', a 'Search' button, and an 'Advanced' link. Below the search bar, an example query is provided: 'e.g. reaction $PP \rightarrow LQ LQ X$, title has "photon collisions", collaboration is LHCf or D0.' The 'Data from the LHC' section displays four detector logos: ATLAS, ALICE, CMS, and LHCb, each with a 'View Data' button.

Recently Updated Submissions - [View all](#)

Measurement of long-range multiparticle azimuthal correlations with the subevent cumulant method in pp and $p + Pb$ collisions with the ATLAS detector at the CERN Large Hadron Collider

Search for pair production of heavy vector-like quarks decaying into high- p_T W bosons and top quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector

Search for supersymmetry in proton-proton collisions at 13 TeV using identified top quarks

Invenio – Beispiel

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<http://inspirehep.net/>



Welcome to [INSPIRE](#), the High Energy Physics information system. Please direct questions, comments or concerns to feedback@inspirehep.net

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HEP Search

High-Energy Physics Literature Database

Use "find" for SPIRES-style search ([other tips](#))

Brief format [Easy Search](#) [Erweiterte Suche](#)

[find "Phys.Rev.Lett."105"](#) :: [mehr](#)

HOW TO SEARCH

SPIRES syntax is (mostly) supported (requires "find")

find a richter, b and t quark and date > 1984
 find j phys.rev.D50,1140 or j jhep.0903,112
 find eprint arxiv:1007.5048 (Note the plots available on the detailed record)
 find fulltext "quark-gluon plasma" (Note new "fulltext" operator)
 find a ellis and refersto a witten (Note "refersto")
 find a kane and citedby title SUSY and topcite 200+ (Note "citedby")

New techniques:

1985 richter quark multiplicity
 arXiv:1007.5048
 citedby:author:ellis -refersto:author:witten
 author:randall | author:sundrum cited:450->1350

Additional Help:

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2018-06-06 1995 Publ.Astron.Soc.Pac. article by @Meg_Urry and Paolo Padovani reaches 2,000 citations in INSPIRE: Unified schem... <https://t.co/7lc3ZiOvpG>
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 2018-06-01 The second 2018 paper to reach 50 citations in INSPIRE: "Possible interaction between baryons and dark-matter parti... <https://t.co/RmenzzKGMW>

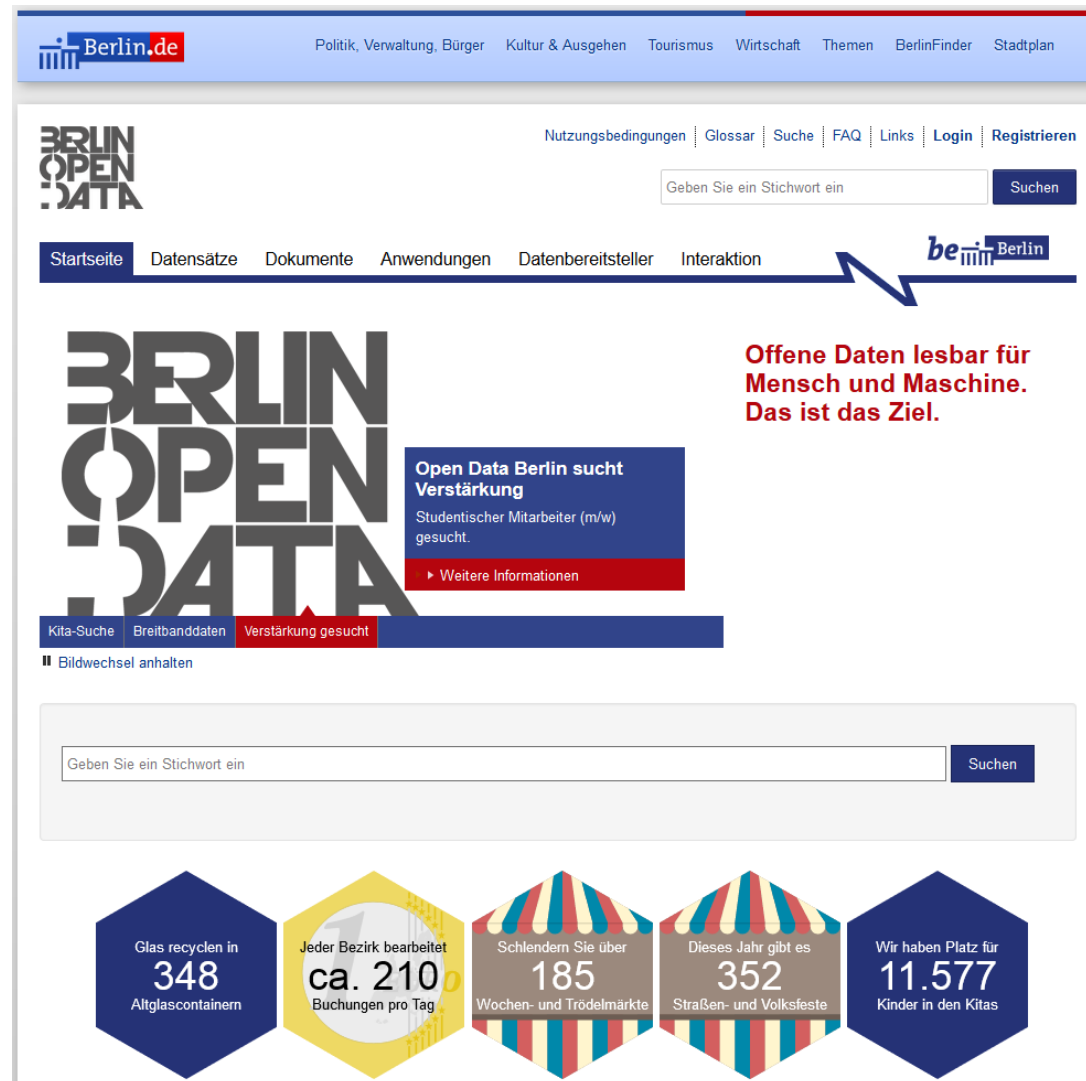


Ckan

- Entwicklung: Open Knowledge International
- <https://ckan.org/>
- Freie Software
 - AGPL Lizenz
 - use it without any license fees, and you retain all rights to the data and metadata
- Programmiersprache: Python
- CC-Lizenzvergabe
- Anbindung von DOI-System möglich
- Überwiegend zur Verfügbarmachung von „governmental data“, aber auch als institutionelles Repositorium eingesetzt
- Überblick bestehender Ckan-Instanzen (Auswahl)
 - <https://ckan.org/about/instances/>

Ckan - Beispiel

- Berlin Open Data
- <http://daten.berlin.de/>
- Datensätze der öffentlichen Verwaltung vom Land Berlin
- Möglichkeit über einen zentralen Einstiegspunkt auf Daten und Informationen der Berliner Verwaltung zuzugreifen und weiterzuverwenden



The screenshot shows the Berlin Open Data website. At the top, there is a navigation bar with links for Politik, Verwaltung, Bürger, Kultur & Ausgehen, Tourismus, Wirtschaft, Themen, BerlinFinder, and Stadtplan. Below this is the Berlin.de logo and a search bar. The main header features the 'BERLIN OPEN DATA' logo and a navigation menu with links for Startseite, Datensätze, Dokumente, Anwendungen, Datenbereitsteller, and Interaktion. A search bar is also present with the text 'Geben Sie ein Stichwort ein' and a 'Suchen' button. A blue box on the right side of the header contains the text 'Offene Daten lesbar für Mensch und Maschine. Das ist das Ziel.' Below the header, there is a large 'BERLIN OPEN DATA' logo and a blue box with the text 'Open Data Berlin sucht Verstärkung' and 'Studentischer Mitarbeiter (m/w) gesucht.' A red button labeled 'Weitere Informationen' is also present. At the bottom, there is a row of five hexagonal icons representing different data categories: Glas recyceln in 348 Altglascontainern, Jeder Bezirk bearbeitet ca. 210 Buchungen pro Tag, Schlemmen Sie über 185 Wochen- und Trödelmärkte, Dieses Jahr gibt es 352 Straßen- und Volksfeste, and Wir haben Platz für 11.577 Kinder in den Kitas.

Ckan - Beispiel



UK: <https://data.gov.uk/>

USA: <https://www.data.gov/>

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[Business and economy](#)

Small businesses, industry, imports, exports and trade

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Courts, police, prison, offenders, borders and immigration

[Defence](#)

Armed forces, health and safety, search and rescue

[Education](#)

Students, training, qualifications and the National Curriculum

[Environment](#)

Weather, flooding, rivers, air quality, geology and agriculture

[Government](#)

Staff numbers and pay, local councillors and department business plans

[Government spending](#)

Includes all payments by government departments over £25,000

[Health](#)

Includes smoking, drugs, alcohol, medicine performance and

[Mapping](#)

Addresses, boundaries, land ownership, aerial photographs, seabed and land terrain

[Society](#)

Employment, benefits, household finances, poverty and population

[Towns and cities](#)

Includes housing, urban planning, leisure, waste and energy, consumption

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Airports, roads, freight, electric vehicles, parking, buses and



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HIGHLIGHTS

Safety at Sea – U.S. Coast Guard Marine Casualty and Pollution Data for Researchers

Ckan - Beispiel

- data.bris Research Data Repository (Univ Bristol)
- <https://data.bris.ac.uk/data/>



Log in

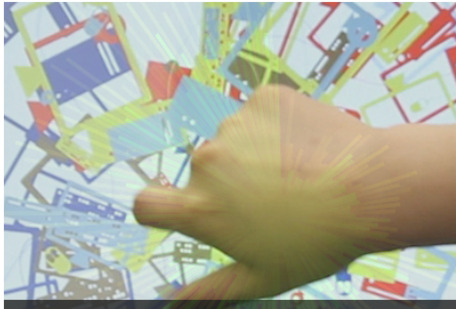
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Data Visualization by Cory M Grenier
The truth is in there by all means

The data.bris Research Data Repository

The University of Bristol's mission is to pursue and share knowledge and understanding, both for their own sake and to help individuals and society fulfil their potential. The University is research-intensive, supporting both individual scholarship and interdisciplinary or thematic research of the highest quality. The Research Data Repository offers a means for Bristol's researchers to share research data openly, with the world.

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- <https://dataverse.org/>
- Freie Software
 - Apache License Version 2.0
 - Software darf frei in jedem Umfeld verwendet, modifiziert und verteilt werden
- Programmiersprache: Python
- zahlreiche open APIs vorhanden
- Anbindung DOI-System möglich
- CC-Lizenzvergabe
- Rechteverwaltung
- Von Beginn an: open-source Web-Applikation für Archivierung und Publikation von Forschungsdaten

Dataverse – Beispiel

- Heidata – Universität Heidelberg
- <https://heidata.uni-heidelberg.de/dataverse/root>


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Publication Date
 2014 (36)
 2017 (32)
 2015 (31)
 2016 (28)
 2018 (14)

Author Name
 Oechssler, Jörg (18)
 Trautmann, Stefan T. (17)
 Krömker, Susanne (8)
 Mara, Hubert (8)
 Huck, Steffen (6)

Subject
 Social Sciences (58)
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1 to 10 of 141 Results

 Sort ▾



Risk, time pressure, and selection effects [Dataset]
 May 20, 2018 - AWI Experimental Economics
 Kocher, Martin G.; Schindler, David; Trautmann, Stefan T.; Xu, Yilong. 2018, "Risk, time pressure, and selection effects [Dataset]", doi:10.11588/data/GBKK40, heidata, V1, UNF:6:p3XUM9b1UVsjEaoU0RTig==
 Time pressure is a central aspect of economic decision making nowadays. It is therefore natural to ask how time pressure affects decisions, and how to detect individual heterogeneity in the ability to successfully cope with time pressure. In the context of risky decisions, we ask...



Histopathology of thymectomy specimens from the MGTX-trial
 May 18, 2018 - Institute of Pathology Mannheim
 Cleo-Aron Weis, 2018, "Histopathology of thymectomy specimens from the MGTX-trial", doi:10.11588/data/NWE2JJ, heidata, V1, UNF:6:Od2UlnHG3ctanb4ikzlx4g==
 Background: The thymectomy specimens from the "thymectomy trial in non-thymomatous myasthenia gravis patients receiving prednisone therapy" (MGTX) [1] underwent rigid and comprehensive work-up, which results in a unique, spatially mapped dataset. Fig. 1 Specimen work-up: Work-up...



Institute of Pathology Mannheim (Heidelberg University - Medical Faculty Mannheim)
 May 18, 2018
 Data publications from the Institute of Pathology Mannheim at the Medical Faculty Mannheim (Heidelberg University).



Religion, moral attitudes and economic behavior [Dataset]
 Apr 23, 2018 - AWI Experimental Economics
 Kirchmaier, Isadora; Jens Prüfer; Trautmann, Stefan T., 2018, "Religion, moral attitudes and economic behavior [Dataset]", doi:10.11588/data/PJ8CJU, heidata, V1, UNF:6:MuyPmq6kxf5LETP7Zp3OA==
 Using data for a representative sample of the Dutch population with information about participants' religious background, we study the association between religion and moral behavior and attitudes. We find that religious people are less accepting of unethical economic behavior (e...

Dataverse – Beispiel

- Havard Dataverse
- <https://dataverse.harvard.edu/>



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- Research Group (120)
- Journal (73)

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- Harvested (52,410)
- Harvard Dataverse (27,427)

Publication Date

- 2015 (15,491)
- 2011 (9,548)
- 2012 (8,146)
- 2016 (4,118)
- 2009 (4,020)

[More...](#)

Subject

- Social Sciences (35,403)
- Medicine, Health and Life Sciences (2,077)
- Earth and Environmental Sciences (1,101)
- Agricultural Sciences (1,040)
- Other (735)

[More...](#)

Author Name

- Digital Archive of Massachusetts Anti-Slavery and Anti-Segregation Petitions, Massachusetts Archives, Boston MA (4,248)
- U.S. Department of Commerce, Bureau of the Census, Geography Division (3,517)
- Gallup Organization (2,890)

1 to 10 of 79,837 Results

Sort

Replication data for: "Audience Costs, Domestic Economy, and Coercive Diplomacy"

Jun 7, 2018 - Akisato Suzuki Dataverse


Suzuki, Akisato, 2018, "Replication data for: "Audience Costs, Domestic Economy, and Coercive Diplomacy"", <https://doi.org/10.7910/DVN/1GPEFQ>, Harvard Dataverse, V2, UNF:6.gUXK7ZvCr4A6eZZsuhzA==

This is the replication dataset for the article "Audience Costs, Domestic Economy, and Coercive Diplomacy," accepted for publication at Research and Politics.

Probabilistic Causal Models for Nutrition Outcomes of Agricultural Actions - Kenya model

Jun 6, 2018 - ICRAF Decision Analysis Dataverse


Luedeling, Eike; Whitney, Cory, 2018, "Probabilistic Causal Models for Nutrition Outcomes of Agricultural Actions - Kenya model", <https://doi.org/10.7910/DVN/WDZY2M>, Harvard Dataverse, V2

Decision model for predicting the nutritional benefits of introducing fruits trees on smallholders farms in Kenya

Scientometrics analysis of research activity and collaboration patterns in Chagas cardiomyopathy

Jun 6, 2018


González-Alcaide, Gregorio, 2018, "Scientometrics analysis of research activity and collaboration patterns in Chagas cardiomyopathy", <https://doi.org/10.7910/DVN/R4Y8HW>, Harvard Dataverse, V1, UNF:6.gfZY0PwOd1LVdXqBr9y+HA==

An XLSX Excel file which provides data used by Gregorio González-Alcaide & collaborators in the article "Scientometrics analysis of research activity and collaboration patterns in Chagas cardiomyopathy" The worksheet "labels" describes the variables of the bibliographic databases...

Dominance and leadership in research activities: collaboration between countries of differing human development is reflected through authorship order and designation as corresponding authors in scientific publications.

Jun 6, 2018


González-Alcaide, Gregorio, 2018, "Dominance and leadership in research activities: collaboration between countries of differing human development is reflected through authorship order and designation as corresponding authors in scientific publications.", <https://doi.org/10.7910/DVN/J51WQ4>, Harvard Dataverse, V1, UNF:6.Xi4jS3WQUyqQk29vU4vDgA==

An XLSX Excel file which provides data used by Gregorio González-Alcaide & collaborators in the article "Dominance and leadership in research activities: collaboration between countries of differing human development is reflected through authorship order and designation as corres...

Replication Data for "Recessions and Presidential Approval: New Evidence from Brazil"

Jun 6, 2018 - Lorena Barberia Dataverse


Barberia, Lorena; Natália de Paula Moreira, 2018, "Replication Data for "Recessions and Presidential Approval: New Evidence from Brazil"", <https://doi.org/10.7910/DVN/Z4CGAU>, Harvard Dataverse, V3

Replication Data for "Recessions and Presidential Approval: New Evidence from Brazil." In this study, we offer a new explanation of why higher

Fedora

- Entwicklung: DuraSpace
- <https://duraspace.org/fedora/>
- Freie Software
 - Apache 2.0 Lizenz
 - Software darf frei in jedem Umfeld verwendet, modifiziert und verteilt werden
- Programmiersprache: Java
- Gut dokumentierte RESTful APIs
- OAI-PMH-Schnittstelle
- Anbindung DOI-System möglich
- Rechteverwaltung und Rollenmanagement

Fedora - Beispiel

- Clarin Repository – Berlin Brandenburg Akademie der Wissenschaften
- <https://clarin.bbaw.de/de/search/>



The screenshot shows the homepage of the CLARIN Service Center at the Berlin-Brandenburg Academy of Sciences and Humanities (BBAW). The page features a red header with the BBAW logo and navigation links. Below the header, there is a search bar with a 'Suche' button and a link to 'Erweiterte Suche'. The main content area describes the repository's mission. The footer includes a 'ZUM SEITENANFANG' link, the CLARIN Centre B logo, the hdl enabled logo, and a DSA 2014-2017 seal.

STARTSEITE IMPRESSUM ENGLISH

DAS CLARIN-SERVICEZENTRUM
DES ZENTRUMS SPRACHE AN DER BBaw

berlin-brandenburgische
AKADEMIE DER WISSENSCHAFTEN

SUCHE MISSION DOKUMENTATION IMPRESSUM KONTAKT

DAS CLARIN-SERVICEZENTRUM DES ZENTRUMS SPRACHE AN DER BBaw

Suche [Erweiterte Suche](#)

Das CLARIN Repository der BBaw
Die Aufgabe des CLARIN Repositoriums der BBaw ist die
Langzeitarchivierung von Volltexttranskriptionen und bibliographischen Metadaten.

↑ ZUM SEITENANFANG

CLARIN CENTRE B

hdl enabled

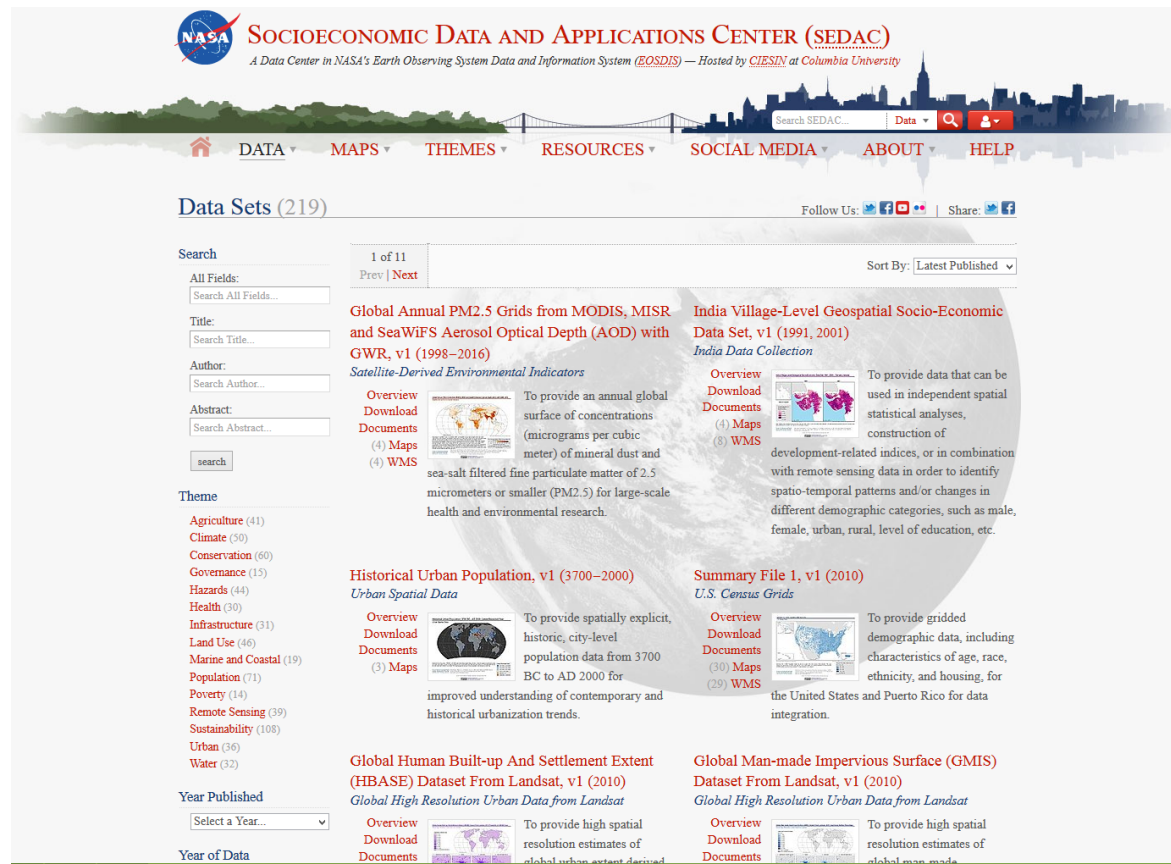
2014 DSA 2017

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IMPRESSUM DATENSCHUTZ

Fedora - Beispiel

- Columbia University Center for International Earth Science Information Network
 - Center for International Earth Science Information Network (CIESIN)
 - Socioeconomic Data and Applications Center (SEDAC)
- <http://sedac.ciesin.columbia.edu/data/sets/browse>



The screenshot shows the SEDAC (Socioeconomic Data and Applications Center) website. The header includes the NASA logo and the text "SOCIOECONOMIC DATA AND APPLICATIONS CENTER (SEDAC)" and "A Data Center in NASA's Earth Observing System Data and Information System (EOSDIS) — Hosted by CIESIN at Columbia University". The navigation bar contains links for DATA, MAPS, THEMES, RESOURCES, SOCIAL MEDIA, ABOUT, and HELP. The main content area is titled "Data Sets (219)" and features a search bar, a list of themes (Agriculture, Climate, Conservation, Governance, Hazards, Health, Infrastructure, Land Use, Marine and Coastal, Population, Poverty, Remote Sensing, Sustainability, Urban, Water), and a list of data sets. The data sets are displayed in a grid format, each with a title, a brief description, and links for Overview, Download, Documents, Maps, and WMS. The data sets include: Global Annual PM2.5 Grids from MODIS, MISR and SeaWiFS Aerosol Optical Depth (AOD) with GWR, v1 (1998–2016); India Village-Level Geospatial Socio-Economic Data Set, v1 (1991, 2001); India Data Collection; Historical Urban Population, v1 (3700–2000); Summary File 1, v1 (2010); U.S. Census Grids; Global Human Built-up And Settlement Extent (HBASE) Dataset From Landsat, v1 (2010); Global High Resolution Urban Data from Landsat; Global Man-made Impervious Surface (GMIS) Dataset From Landsat, v1 (2010); and Global High Resolution Urban Data from Landsat.

E-Prints

- Entwicklung: University of Southampton
- <http://www.eprints.org/uk/index.php/eprints-software/>
- Freie Software
 - GNU GPL-3 Lizenz
 - run, study, share and modify the software
- Programmiersprache: Perl
- APIs und OAI Schnittstelle
- Anbindung DOI-System möglich
- Veröffentlichung von Publikation und Forschungsdaten

E-Prints - Beispiel

- The Linnean Society of London
- <http://linnean-online.org/>



The Linnean Collections



Linnean Society Home

Collections home

About

Linnaeus' collections

Specimens

Art

Documents

Login | Create Account

More search options

Welcome to The Linnean Collections

Through our Online Collections, we are providing worldwide access to our priceless collections of specimens, manuscripts, letters, books and artwork.

Browse our Online Collections

Carl Linnaeus (1707-1778)

Plants, algae, and fungi (14,000)

Fish (168)

Shells (1,564)

Insects (3,198)

Correspondence

Manuscripts

Linnaean Annotated Library

James Edward Smith (1759-1828)

Plants, algae, and fungi (27,075)

Correspondence

Alfred Russel Wallace (1823-1913)

Wallace's Notebooks

Art

Buchanan-Hamilton's Nepalese drawings

Buchanan-Hamilton's Mysore drawings



LINN 3948 *Papilio* sp. (Ins Linn)

Specimen collections

Around 40,000 specimens from the collection of Carl Linnaeus, purchased from the estate of the Society's first President, Sir James Edward Smith, as well as Smith's own herbarium.

The library, correspondence and manuscripts of Carl Linnaeus

Linnaeus' private library of some 1,600 volumes, over 4,000 letters from 600 correspondents, and circa 300 manuscripts.

The correspondence of James Edward Smith

Over 3,500 scientific and personal letters of our founder and first President.

Alfred Russel Wallace's notebooks

Ten manuscript notebooks, including two field notebooks and four journals in which Wallace records his travels around the Malay archipelago.

Buchanan-Hamilton collection

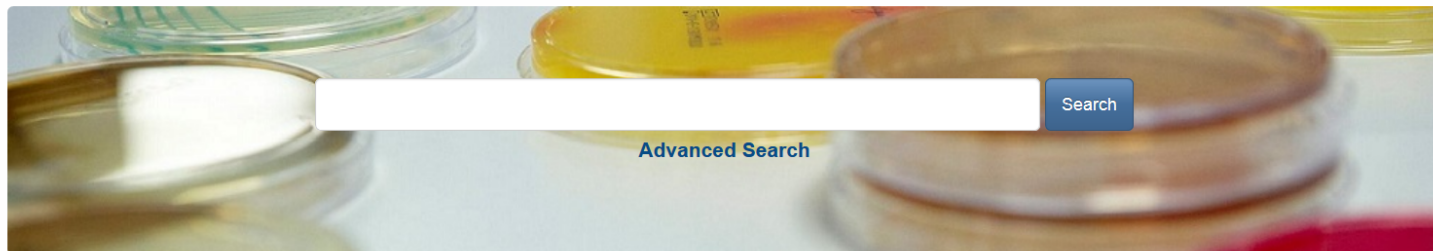
E-Prints - Beispiel

- Institutionelles Repositorium
- University of Bath; <http://researchdata.bath.ac.uk/>



University of Bath Research Data Archive

Find data from our world-class research



Latest Additions

About this Archive

More information about this site.

Browse Archive

Browse the items in the repository by subject.

Archive Policies

Policy for use of material in this repository.

Hilfsmittel

OpenDOAR - Verzeichnis von Open Access Repositories

- <http://www.opendoar.org/find.php>
- Software als Suchkriterium

Registry of Research Data Repositories (re3data)

- <https://www.re3data.org/search>
- Filtermöglichkeit nach Software

DuraSpace Registry

- <http://registry.duraspace.org/registry>
- Repository-Liste für Instanzen von DSpace, DuraCloud, Fedora und VIVO

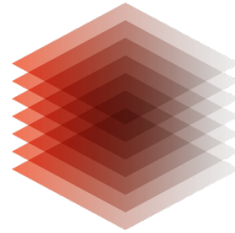
Open Access Repository Ranking (OARR)

- <http://repositoryranking.org/>

Repository software survey, November 2010

- Product Comparison Table
- <http://www.rsp.ac.uk/start/software-survey/results-2010/>

LEIBNIZ-INFORMATIONSZENTRUM
TECHNIK UND NATURWISSENSCHAFTEN
UNIVERSITÄTSBIBLIOTHEK



TIB

Vielen Dank!

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