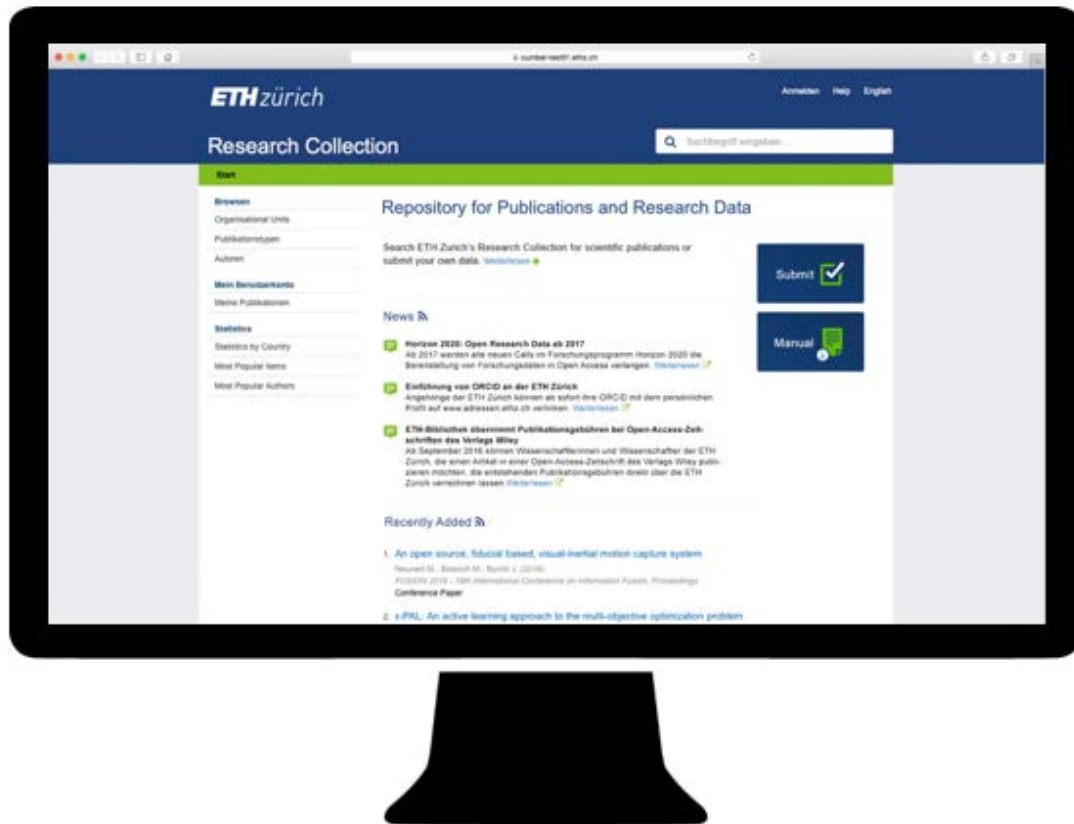




Publishing data in ETH Zurich's Research Collection

Barbara Hirschmann, ETH Library
SCCER-SoE Workshop on Data Management in Science
Bern, 22 May 2018

Research Collection: a «3 in 1» repository for ETH Zurich



- Publication directory / university bibliography



- Open access repository



- Research data repository


www.research-collection.ethz.ch




Research data repository

- Publish, share or archive research data
- As supplementary material or stand-alone publication
- All file formats allowed, recommendations for suitable formats provided
- Free service for ETH members (up to 1 TB per research group)

LevelDynamics_Scilab/Xcos_v541_sources.7z 🔗




Open access 

Produzent(in)
Glattfelder, Adolf Hermann

Datum
2017-08-09

Typ
Model

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Abstract
Source files of models used in ' Free Surface Water Flow - Modeling, Simulation and Control ' developed in Scilab/Xcos v. 5.4.1


Persistenter Link
<https://doi.org/10.3929/ethz-b-000175543>

Beteiligte
Kontaktperson: Glattfelder, Adolf Hermann

Verlag
ETH Zurich

Software
Scilab/Xcos

Organisationseinheit
02650 - Institut für Automatik (IfA) / Automatic Control Laboratory (IfA)

Zugehörige Publikationen und Daten
Is supplement to: <https://doi.org/10.3929/ethz-b-000175527> 

Anmerkungen
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Access rights options

	Open access	Embargoed	ETHZ users	Selected users	Closed access
Publications	✓	✓			
Research data	✓	✓	✓	✓	✓

- Access rights are chosen by the submitter
- Access rights refer to files. Metadata are always visible and indexed in search
- Closed access and selected user items do not receive a DOI
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File size limits

- Current recommended maximum file size for Research Collection: 2 GB
- Challenges with larger files: Upload, download, browser limits, network connection,...
- What's next?
 - ✓ Evaluate possible locations and retrieval scenarios for large files
 - ✓ Possibly create «Metadata only» records in Research Collection as «DOI Landing Pages» and link users to external location for retrieving the actual data
 - ✓ *[This is work in progress...]*

Retention periods

- Submitters choose between one of the following retention periods:
 - 10 years «Good scientific practice»
 - 15 years «Good scientific practice» + safety margin
 - Indefinite Use of recommended file formats strongly encouraged

- Gives ETH Library the possibility to take necessary archiving / deletion decisions

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Anmerkungen
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Citable DOIs & DOI preview option

Bio-economic model on weed management in maize production



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Abstract
The bio-economic model calculates optimal weed control strategies for cultivation of silage maize in North-Rhine-Westphalia and can be used to simulate agri-environmental policy scenarios such as a glyphosate ban. The model is described in detail in the following article: Böcker, T., Britz, W., Fin [Mehr anzeigen](#) 

Produzent(in)
Böcker, Thomas
Britz, Wolfgang
Finger, Robert

Datum
2017-09-09

Typ
Model

Verlag
ETH Zurich

Software
The model is written in GAMS

Thema
AGRICULTURAL ECONOMICS; weed management; Glyphosate; AGRICULTURAL POLICY

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<https://doi.org/10.3929/ethz-b-000184083>

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Creator
 Suri, Roland E.

Date
 2017

Type
 Dataset

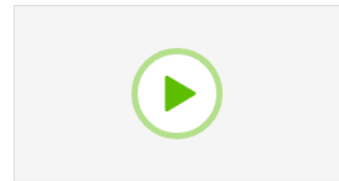
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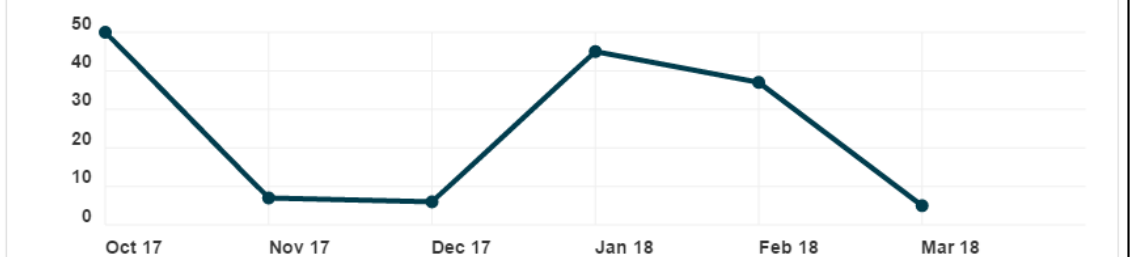
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Linking between publications and datasets

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Is supplement to: <https://doi.org/10.3929/ethz-b-000175527> ↗

Anmerkungen
7-zip 16.04 (64 bit) container with zero compression

Versioning

From a citation perspective...

- ...an object that has been allocated a DOI name should not be altered
- ... an updated object should be published as a new version and a new DOI name registered for it

Related publications and datasets

Is supplemented by: <https://doi.org/10.3929/ethz-b-000217536> 

Is new version of: <https://doi.org/10.3929/ethz-b-000222143> 

Publishing dynamic datasets

Dynamic datasets require a **strict versioning policy**.

Four **approaches** recommended by DataCite:

1. Publish and cite a specific **slice or subset** (the set of updates to the dataset made during a particular period of time or to a particular area of the dataset)
 2. Publish and cite a specific **snap-shot** (a copy of the entire dataset made at a specific time)
 3. Publish a **continuously updated dataset**, and when citing it, add an access date and time to the citation
 4. Cite a **query**, time-stamped for re-execution against a versioned database (currently not supported by Research Collection)
- "Slice" and "snap-shot" are versions of the dataset and require unique DOIs/identifiers
- The third option is controversial, because it necessarily means that following the citation does not result in observation of the resource as cited, which in turn limits reproducibility

Citation of research data

Format recommended by DataCite:

Creator (PublicationYear): Title. Version. Publisher. (ResourceType). Identifier

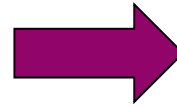
Example:

Swaminathan, R., Ramya, T., Karthik, C.S. (2013): Contortrostatin-Reprolysin Domain Structure. Swiss Institute of Bioinformatics. (Model). <https://doi.org/10.5452/ma-c12zs>

DataCite Metadata Working Group. (2017). DataCite Metadata Schema Documentation for the Publication and Citation of Research Data. Version 4.1. DataCite e.V. <https://doi.org/10.5438/0014>.

From informal to formal data citation

Our first data set is the Bureau of Justice Statistics "Murder Cases in 33 Large Urban Counties." This is a random sample of homicide cases drawn from prosecutors' files. The data set includes information on offender characteristics, victim characteristics and trial outcomes for 2800 murders. The 75 largest counties account for more than half of the murders in the U.S. each year. This data set brings together information on the crime, the offender, the victim, and the sentence. Such information cannot all be linked in other larger data sets such as the Uniform Crime Reporting (UCR) Data or the National Crime Victimization Survey (NCVS). Most crime



U.S. Dept. of Justice, Bureau of Justice Statistics (1996): Murder cases in 33 large urban counties in the United States, 1988. Version 1. Inter-university Consortium for Political and Social Research.
<https://doi.org/10.3886/ICPSR09907.v1>

Supplementary Material


Supplemental Data
[Click here to view.](#)

Acknowledgments

We thank Junghwa Seo, Lei Cho, and Jongmin Kim for technical assistance and Hyunjung Lim for consultation on image handling.

This work was supported, in whole or in part, by National Institutes of Health Grants AG5131 and AG18440. This work was also supported by the Disease Network Research Program (Grant 20090084180) from the National Research Foundation of Korea funded by the Ministry of Education, Science and Technology, Republic of Korea and by the Korea Science and Engineering Foundation funded by the Korea government (Grant 20090033737).

The microarray data reported in this paper have been deposited to the Gene Expression Omnibus (GEO) data base under accession number [GSE11574](#).

 The on-line version of this article (available at <http://www.jbc.org>) contains supplemental [Figs. S1-S8](#) and [Tables 1-4](#).

^{3A}A. Jang, H.-J. Lee, J.-E. Suk, J.-W. Jung, K.-P. Kim, and S.-J. Lee, submitted for publication.



Lee, Seung-Jae; Lee, He-Jin; Cho, Ji-Hoon; Rho, Sangchul; Hwang, Daehee (2008): GSE11574: The responses of astrocytes stimulated by extracellular a-synuclein. Gene Expression Omnibus.
<https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE11574>

Take away: Recommendations for publishing research data

- Deposit in **trustworthy repositories** (→ check www.re3data.org)
 - Provides **landing pages** for individual datasets
 - Provides human and machine-readable **metadata** for datasets
 - Provides **DataCite DOIs** or other persistent identifiers for data
 - Provides the option to use open content **licences**
 - Has **sustainable funding** sources
- Follow the **file-format recommendations** provided
- Provide enough **descriptive metadata** so others can find and make sense of your data
- Include **data citations** in formal reference lists
- Use the **DOI** wherever you cite, mention or link your dataset

Thank you! – Questions?

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