

Lars Holm Nielsen
CERN/IT

zenodo

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OpenAIRE Webinar on ZENODO, 26. February 2014



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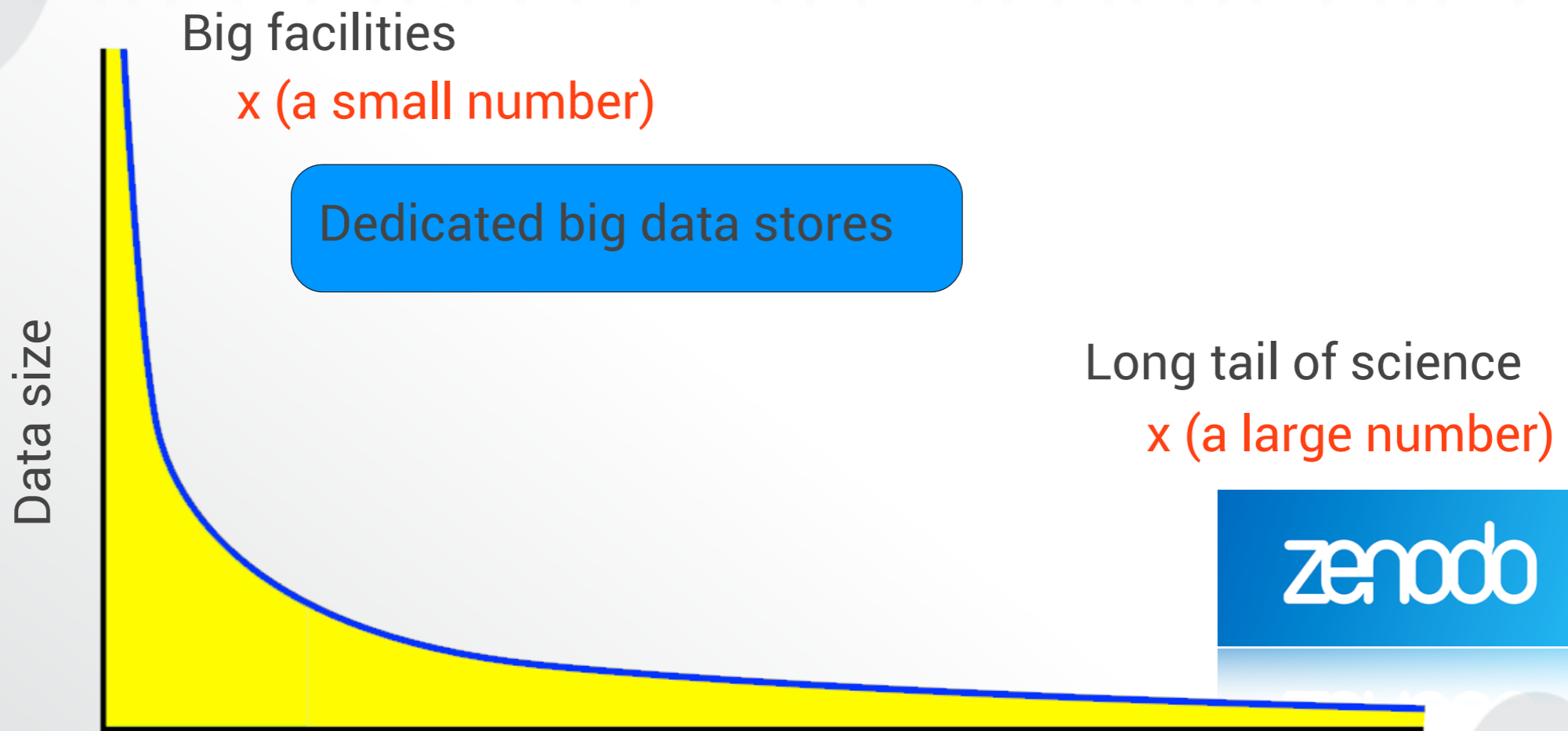
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BIG DATA...in small pieces



Meet ZENODO

The screenshot shows the Zenodo homepage with a search bar at the top containing "Search 617 records for:". Below the search bar, there are two featured items under "Recent Uploads":

- 02 November 2012** | Journal article | Open access
Risk Perception Research Literature and Data Review
Vrábliková, Katerina
In this new discussion paper series, the Prague SECONOMICS team intends to allow the broader academic community taking part in an on-going discussion about risks and threats as well as trade-offs between them and security. [...]
Uploaded by **Belen Gallego** on 23 May 2013.
- 21 March 2013** | Journal article | Embargoed access
Growth and galvanic replacement of silver nanocubes in organic media
Polavarapu, Lakshminarayana ; Liz-Marzán, Luis M.
Although metal nanoparticles with various shapes can be prepared in polar organic solvents, little has been advanced toward the shape-controlled synthesis in non-polar solvents. [...]
Uploaded by **Luis Liz-Marzan** on 23 May 2013.

On the right side of the homepage, there is a "New to ZENODO?" section with a "Sign Up" button and a list of features:

- Research. Shared.** – all research outputs from across all fields of science are welcome!
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- Community Collections** – accept or reject uploads to your own community collections (e.g workshops, EU projects or your complete own digital repository).
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- DropBox integration** – upload files straight from your DropBox.

Below the list is a link: "Read more about features and benefits."

The screenshot shows a detailed view of a Zenodo article. The article title is "Branch-specific plasticity enables self-organization of nonlinear computation in single neurons" by Robert Legenstein and Maass, Wolfgang. The article is dated 27 July 2011 and is categorized as a "Journal article" and "Open access".

Key statistics shown include: "Tweeted by 2", "56 readers on Mendeley", and "2 readers on CiteULike". The article has a DOI of 10.1523/JNEUROSCI.5684-10.2011 and is published in the "Journal of Neuroscience: 30 (2011) no. 31, pp. 10878-10802".

The article abstract states: "It has been conjectured that nonlinear processing in dendritic branches endows individual neurons with the capability to perform complex computational operations that are needed in order to solve for example the binding problem. However, it is not clear how single neurons could acquire such functionality in a self-organized manner, since most theoretical studies of synaptic plasticity and learning concentrate on neuron models without nonlinear dendritic properties. In the meantime, a complete picture of information processing with dendritic spikes and a variety of plasticity mechanisms in single neurons has emerged from experiments. In particular, new experimental data on dendritic branch strength potentiation in rat hippocampus have not yet been incorporated into such models. In this article, we investigate how experimentally observed plasticity mechanisms, such as depolarization-dependent STDP and branch-strength potentiation could be integrated to self-organize nonlinear neural computations with dendritic spikes. We provide a mathematical proof that in a simplified setup these plasticity mechanisms induce a competition between dendritic branches, a novel concept in the analysis of single neuron adaptivity. We show via computer simulations that such dendritic competition enables a single neuron to become member of several neuronal ensembles, and to acquire nonlinear computational capabilities, such as for example the capability to bind multiple input features. Hence our results suggest that nonlinear neural computation may self-organize in single neurons through the interaction of local synaptic and dendritic plasticity mechanisms."

Below the abstract, there is a table of files:

Name	Date	Size
Legenstein-Maass,2011.pdf	07 Feb 2013	1.4 MB

There are also sections for "Comments" and "Related content".

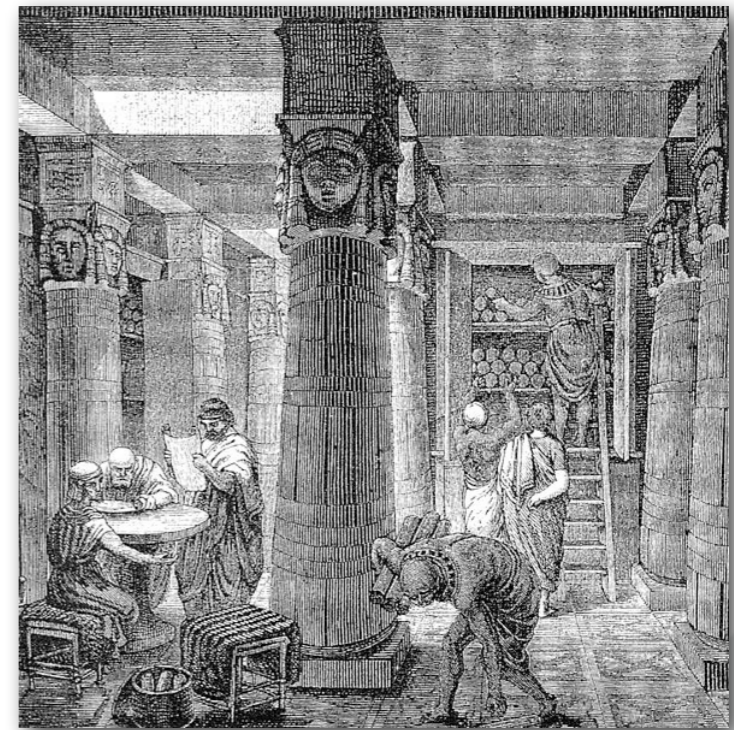
At the bottom of the article page, there is a footer with navigation links: "About", "Contact", "Policies", "Features", "FAQ", and "Powered by INVENIO".

The name

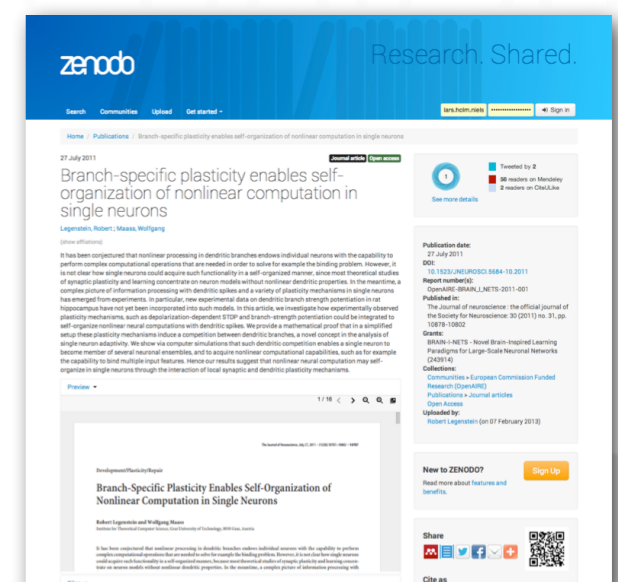
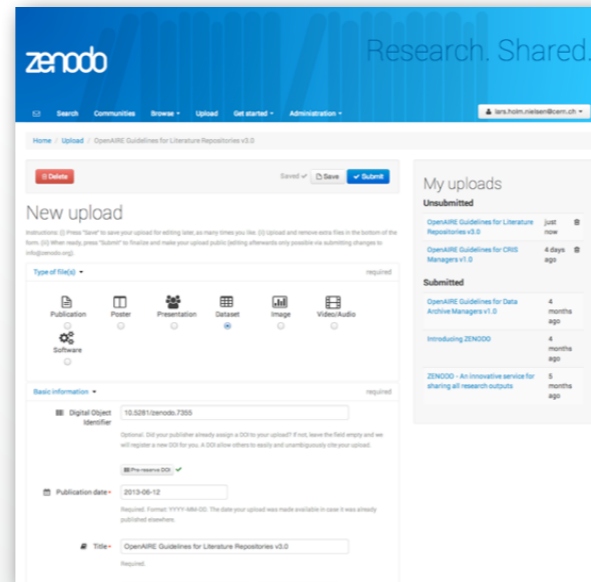
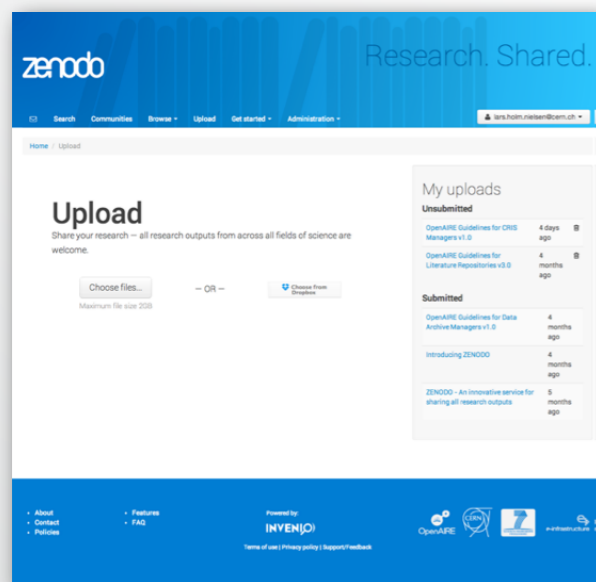
Zenodotus of Ephesus

First librarian of the Ancient Library of
Alexandria

First recorded use of metadata



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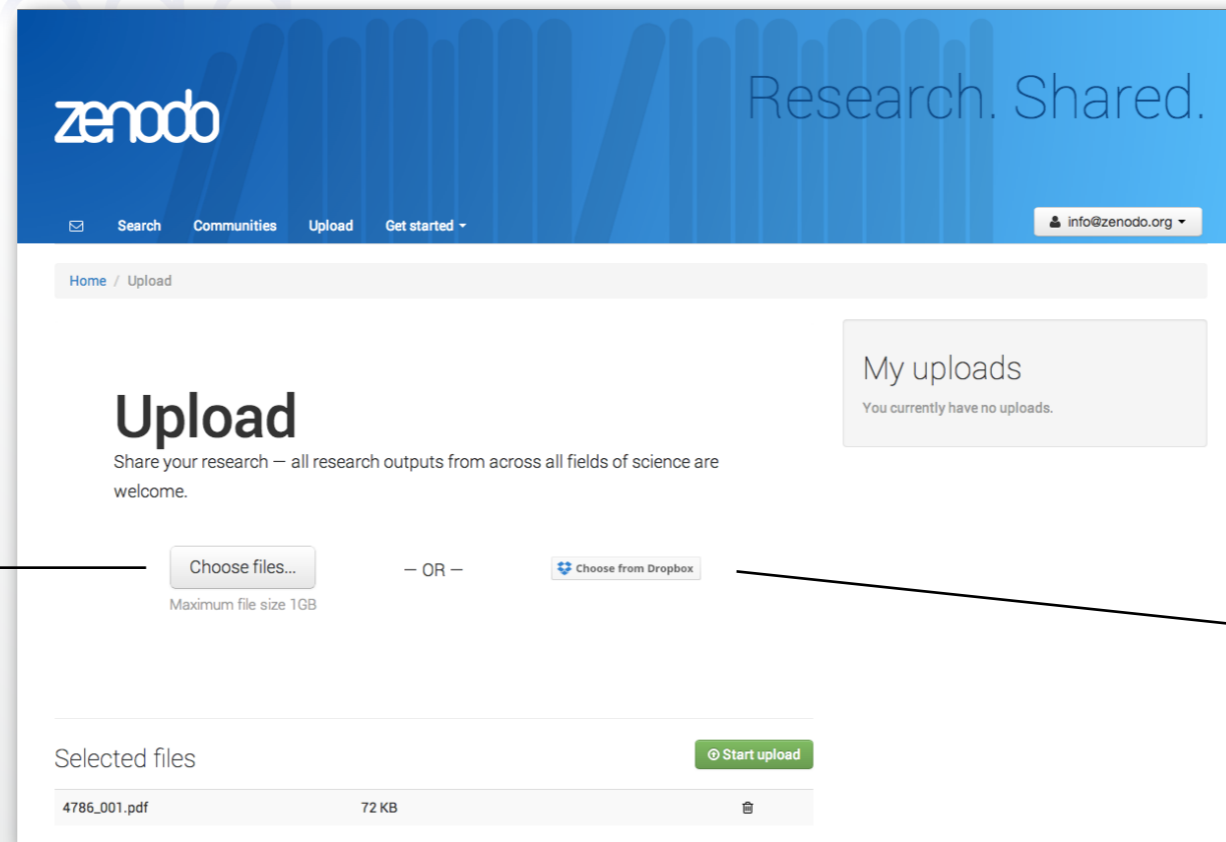


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- Tweeted by 2
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- 2 readers on CiteULike

Article Level Metrics

DOI:
10.5281/zenodo.6785

Citeable. Discoverable.

Grants:
BRAIN-I-NETS - Novel Brain-Inspired Learning Paradigms for Large-Scale Neuronal Networks (243914)

Link with funding information

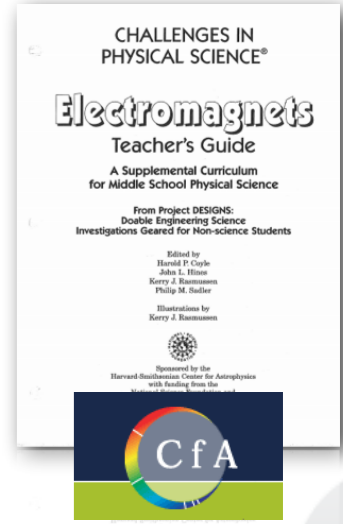
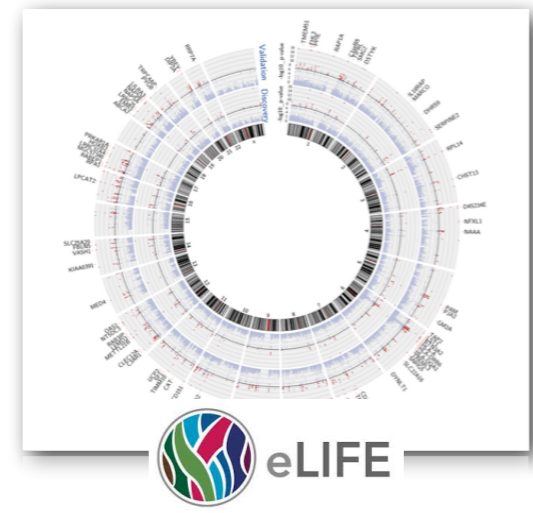
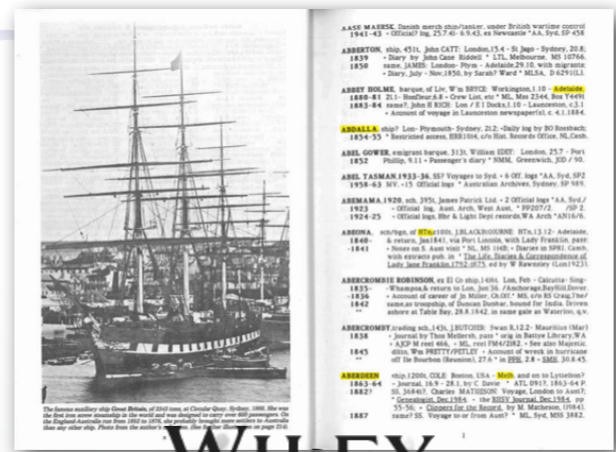
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The screenshot shows a Zenodo article page with the following details:

- Title:** Branch-specific plasticity enables self-organization of nonlinear computation in single neurons
- Authors:** Legenstein, Robert; Maass, Wolfgang
- Publication date:** 27 July 2011
- DOI:** 10.5283/JNEUROSCI.5684-10.2011
- Report number(s):** OpenAIRE-BRAIN_I-NETS-2011-001
- Published in:** The Journal of neuroscience: the official journal of the Society for Neuroscience: 30 (2011) no. 31, pp. 10878-10802
- Grants:** BRAIN-I-NETS - Novel Brain-Inspired Learning Paradigms for Large-Scale Neuronal Networks (243914)
- File:** LegensteinMaass_2011.pdf (1.4 MB)
- Share options:** Twitter, Facebook, LinkedIn, etc.
- Export options:** BibTeX, DataCite, DC, EndNote, NLM, RefWorks, MARC, MARCXML

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European Middleware Initiative

Recent Uploads

- 03 June 2013 Software documentation Open access**
GLITE 3.2 USER GUIDE MANUALS SERIES
 Andrea Scialoja, et al. CERN
 GLITE 3.2 USER GUIDE MANUALS SERIES
 Uploaded by EMI Project Office on 03 June 2013.
- 04 June 2013 Software documentation Open access**
EMI REGISTRY MANUAL
 Memon, Ahmed Shiraz, JUELICH
 EMI REGISTRY MANUAL
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Community collection
European Middleware Initiative

The European Middleware Initiative (EMI) is a close collaboration of the three major middleware providers, ARC, Glite and UNICORE, and other specialized software providers like dCache.

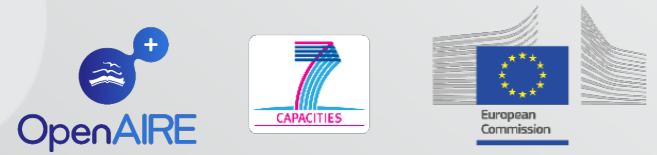
The project's mission is to

1. deliver a consolidated set of middleware components for deployment in EGI (as part of the Unified Middleware Distribution - PRACE and other DCIs, and the interoperability and ration with emerging computing

Graphical representations for carbon dioxide:

- CO2_118-300nm_in.jpg
- CO2_118-300nm_loq.jpg
- CO2_168-298K_118-200nm_in.jpg
- CO2_168-298K_118-200nm_loq.jpg
- CO2_2.056-155nm_in.jpg
- CO2_2.056-155nm_loq.jpg
- CO2_2.056-2.450nm_in.jpg
- CO2_2.056-2.450nm_loq.jpg
- CO2_3.666-4.657nm_in.jpg
- CO2_80-118nm_in.jpg
- CO2_evaluation_0.125-201.6nm_loq.jpg
- CO2_evaluation_0.125-62.4nm_in.jpg
- CO2_evaluation_118.5-153.6nm_in.jpg
- CO2_evaluation_163.5-201.6nm_in.jpg
- CO2_evaluation_52.5-118.7nm_in.jpg

Structure	Author(Year)	Temperature	Wavelength range	Information
CO2	Barnett(1979)	298K	2.056-2.450nm	Details Data
CO2	Barnett(1979)	298K	58-4nm	Details Data
CO2	BirionTan(1978)	298K	20.7-68.5nm(e.s)	Details Data
CO2	CarrieSamson(1965)	298K	30-100nm	Details Data
CO2	Chan(1963)	298K	61-145nm(e.s)	Details Data
CO2	Cook(1966)	298K	60-89.5nm	Details Data
CO2	Heimer(1970)	190K	166-180nm	Details Data
CO2	Hirschbach(15)			Details Data
CO2	Husakov(200)			Details Data
CO2	Ilyakov(200)			Details Data



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1 **06 May 2013** Other Open access

Testing

Nielsen, Lars Holm

Testing

Uploaded by Lars Havard on 06 May 2013.

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Harvesting API:
OAI-PMH Interface

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European Middleware Initiative

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06 May 2013 Technical note Open access
AMGA Manual
Hwang, Soon Wook
AMGA is a distributed catalog of metadata, that is key/value pairs describing research data. [...]
Uploaded by EMI Project Office on 08 May 2013.

08 November 2010 Presentation Open access
EMI-Data, dCache.org and standards
Fuhmann, Patrick
Uploaded by EMI Project Office on 07 May 2013.

03 November 2010 Presentation Open access
More NFS 4.1 / pNFS
Fuhmann, Patrick
Uploaded by EMI Project Office on 07 May 2013.

03 November 2010 Presentation Open access
VOMS/VOMRS convergence
Ceccanti, Andrea
Uploaded by EMI Project Office on 07 May 2013.

02 November 2010 Presentation Open access
EMI Support for EEF Requirements
Meglio, Alberto Di
Uploaded by EMI Project Office on 07 May 2013.

02 November 2010 Presentation Open access
AAI Overview
White, John
Uploaded by EMI Project Office on 07 May 2013.

28 October 2010 Presentation Open access
The European Middleware Initiative - Delivering Key Technologies to Distributed Computing Infrastructures
Riedel, Morris
Uploaded by EMI Project Office on 07 May 2013.

26 October 2010 Presentation Open access
EMI-ES: Status
Schuller, Bernd
Uploaded by EMI Project Office on 07 May 2013.

26 October 2010 Presentation Open access
EMI roadmap (development plan)
Konya, Balazs

Community collection
European Middleware Initiative

The European Middleware Initiative (EMI) is a close collaboration of the three major middleware providers, ARC, gLite and UNICORE, and other specialized software providers like dCache.

The project's mission is to

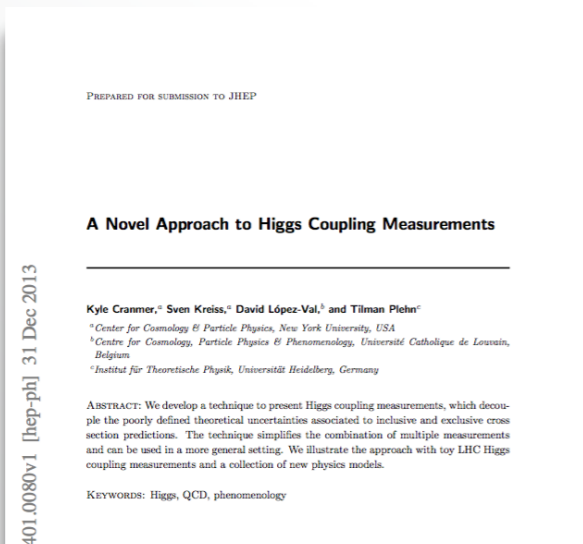
1. deliver a consolidated set of middleware components for deployment in EGI (as part of the Unified Middleware Distribution - UMD), PRACE and other DCIs,
2. extend the interoperability and integration with emerging computing models,
3. strengthen the reliability and manageability of the services and establish a sustainable model to support,
4. harmonise and evolve the middleware, ensuring it responds effectively to the requirements of the scientific communities relying on it.

Title: European Middleware Initiative
Curated by: EMI Project Office
Curation policy: Not specified
Created: 2013-05-07
Harvesting API: OAI-PMH interface

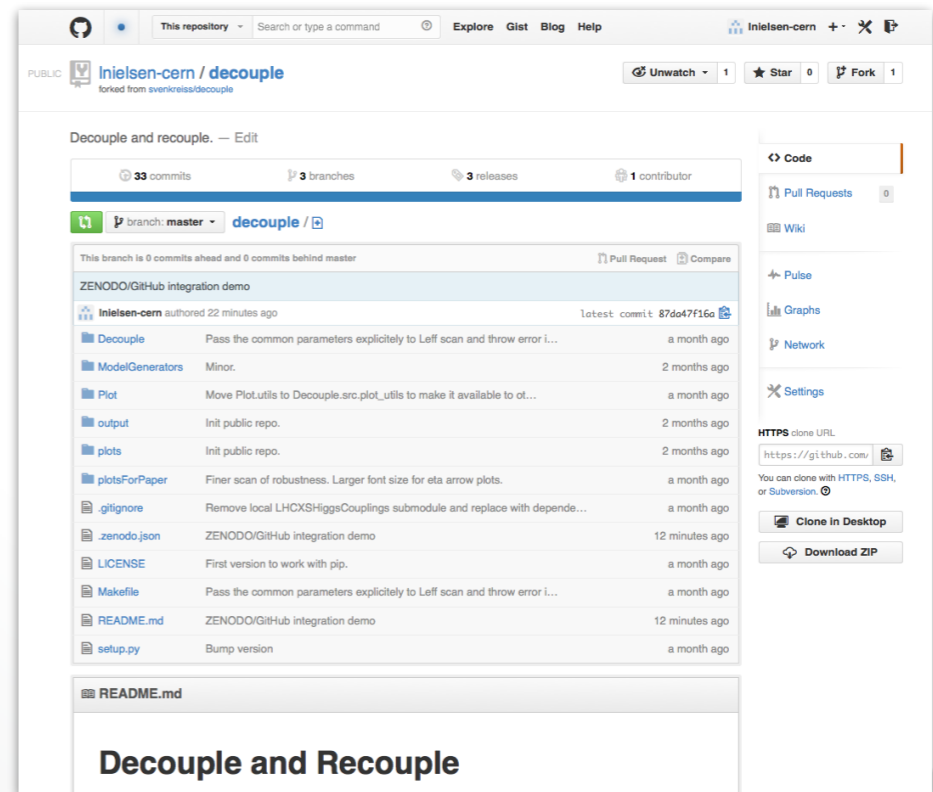
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- The community curator is notified, and will either accept or reject your upload (see community curation policy above).
- If your upload is rejected by the curator, it will still be available on ZENODO, just not in this community.

Software preservation



[25] K. Cranmer, S. Kreiss, D. López-Val, T. Plehn,
<https://github.com/svenkreiss/decouple>.



GitHub meets Zenodo

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Get started

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Select the repository you want to preserve, and toggle the switch below to turn on automatic preservation of your software.

Go to GitHub and create a release. ZENODO will automatically download a .zip package of all new releases and register a DOIs for them.

After your first release, you can get a DOI badge to include in your GitHub README file.

More question? Check out the FAQ.

Innielsen-cern/altantis-conf OFF

Innielsen-cern/dictdiffier OFF

Innielsen-cern/decouple ON

Innielsen-cern/flask-bower-grunt OFF

Innielsen-cern/flask-cache OFF

This repository - Search or type a command - Explore Gist Blog Help Innielsen-cern

Decouple and recouple. — Edit

33 commits 3 branches 3 releases 1 contributor

branch: master decouple

This branch is 0 commits ahead and 0 commits behind master

ZENODO/GitHub integration demo

Innielsen-cern authored 22 minutes ago latest commit 87da47f16c

- Decouple Pass the common parameters explicitly to Left scan and throw error L... a month ago
- ModelGenerators Minor. 2 months ago
- Plot Move Plot.utils to Decouple.src.plot_utils to make it available to ot... a month ago
- output Init public repo. 2 months ago
- plots Init public repo. 2 months ago
- plotsForPaper Finer scan of robustness. Larger font size for eta arrow plots. a month ago
- glignone Remove local LHCKSHiggsCouplings submodule and replace with depende... a month ago
- zenodo.json ZENODO/GitHub integration demo 12 minutes ago
- LICENSE First version to work with pip. a month ago
- Makefile Pass the common parameters explicitly to Left scan and throw error L... a month ago
- README.md ZENODO/GitHub integration demo 12 minutes ago
- setup.py Bump version a month ago

README.md

Decouple and Recouple

DOI 10.5281/zenodo.8345

v1.1.3

07a2526 zip tar.gz

Releases

```

"name": "Plehn, Tilman",
"affiliation": "Institut für Theoretische Ph
}],
"description": "This repository contains the soft
"access_right": "open",
"license": "mit-license",
"related_identifiers": [{
  "identifier": "arXiv:1401.0080",
  "relation": "isCitedBy"
}]

```

.zenodo.json

ON

DOI 10.5281/zenodo.8345

DOI Badge



Safety

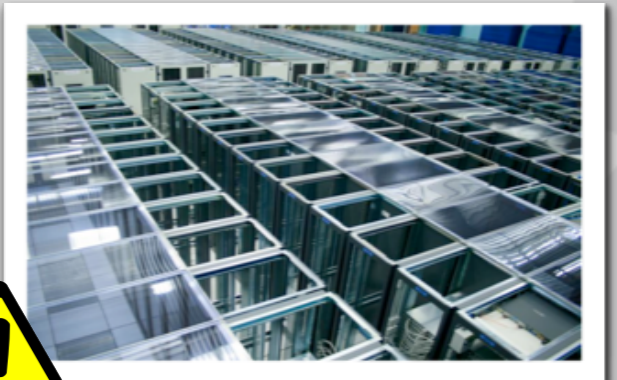
INVENIO

<http://www.invenio-software.org>

<http://github.com/zenodo>



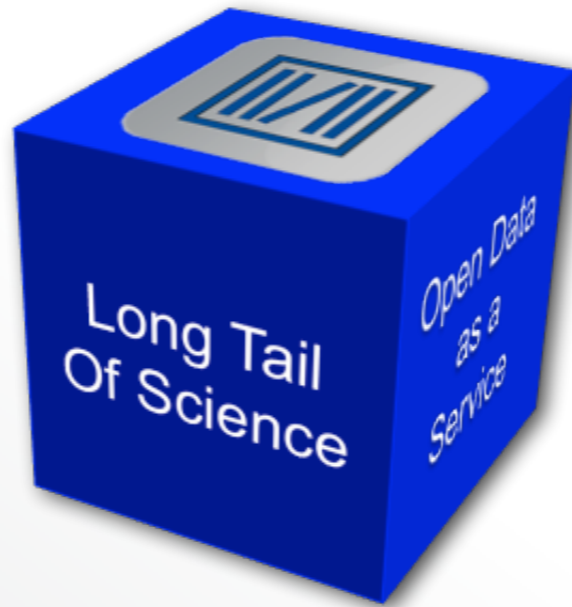
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Bit Rot



Sustainability



Easy to use

DropBox/GitHub integration
Drag-n-drop deposition
Programmable API

Low barriers

Little fixed metadata

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