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JuSER

June 15, 2013 | Alexander Wagner |

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Overview

- History
- Basic Usage
- Installation
- Backend

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Part I: History

June 15, 2013 | Alexander Wagner

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VDB and JUWEL

Publications database **VDB**:

- Centralized database of the scientific output
- $>$ 62.000 entries from $\approx$ 13 years ($\approx +4800/a$)
- Obligatory input[1] (editors at each institute, crosschecked by ZB)

[1] cf. Publication Guidelines

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- Basis for
  - Scientific Report
  - Evaluations
  - Publication lists (e. g. WWW)

[1] cf. Publication Guidelines

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Forschungszentrum Jülich – Publikationen – Iceweasel

File Edit View History Bookmarks Tools Help Search News Bank Uni Bib Comp Cam

w.fz-juelich.de/inm/inm-1/DE/Service/Publikationslisten/publikationslisten_node.html JuSER

Suchbegriff MITARBEITERSUCHE | DEUTSCH | ENGLISH Institutswegweiser

JÜLICH FORSCHUNGSZENTRUM

Institut für Neurowissenschaften und Medizin
Strukturelle und funktionelle Organisation des Gehirns (INM-1)

AKTUELLES FORSCHUNG LEISTUNGEN KARRIERE ÜBER UNS

INM-1 Forschung Publikationen

FORSCHUNG

- Architektonik und Hirnfunktion
- Multimodale Bildverarbeitung
- Modellierung kortikaler Systeme
- Genomic Imaging
- **Publikationen**

SERVICE

- Ansprechpartner
- Mitarbeiter
- Publikationen
- Anfahrt
- Downloads

Zeitschriftenbeiträge 2012

Amunts, K. ; Zilles, K.
Architecture and organizational principles of Brocas region
Trends in cognitive sciences **16,** 418 - 426 (2012) [10.1016/j.tics.2012.06.005]
S·F·X

Bis, J. C. ; et, a.
Common variants at 12q14 and 12q24 are associated with hippocampal volume
Nature genetics **44,** 545 - 551 (2012) [10.1038/ng.2237] S·F·X

Boutros, N. N. ; Gjini, K. ; Eickhoff, S. B. ; Urbach, H. ; Pflieger, M. E.
Mapping repetition suppression of the P50 evoked response to the human cerebral cortex
Clinical neurophysiology **00,** 00 (2012) [10.1016/j.cinph.2012.10.007] S·F·X

In Print

Bzdok, D. ; Laird, A. ; Zilles, K. ; Fox, P. ; Eickhoff, S. B.
An investigation of the structural, connectional, and functional sub-specialization in the human amygdala
Human brain mapping (2012) [10.1002/hbm.22138] S·F·X

Bzdok, D. ; Schilbach, L. ; Vogeley, K. ; Schneider, K. ; Laird, A. R. ; Langner, R. ; Eickhoff, S. B.
Parsing the neural correlates of moral cognition: ALE meta-analysis on morality, theory of mind, and empathy
Brain structure & function **217,** 783 - 796 (2012) [10.1007/s00429-012-0380-y]
S·F·X

PUBLIKATIONEN INM-1

- Publikationen 2011
- Publikationen 2010
- Publikationen 2009
- Publikationen 2008

→ Mehr

VDB and JUWEL

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JUWEL:

- Berlin Declaration for Open Access
- Institutional repository $(\approx 4500$ full text files, $\approx +560/a)$

---

[2] cf. Publication Guidelines

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Longitudinal deformation-based morphometry reveals spatio-temporal dynamics of brain volume changes in patients with corticobasal syndrome - JuSER - Mozilla Firefox

File Edit View History Bookmarks Tools Help Most Visited Search News Uni FR Bib Wiki SRV Chess Comp

juser.fz-juelich.de/record/130981 Startpage (SSL)

admin :: Abmelden

JUSER

JÜLICH FORSCHUNGSZENTRUM

SUCHEN ABSENDEN PERSONALISIEREN HILFE VERWALTUNG

Hauptseite > Longitudinal deformation-based morphometry reveals spatio-temporal dynamics of brain volume changes in patients with corticobasal syndrome

Information | Diskussion | Dateien | Plots

Journal Article FZJ-2012-00157

Longitudinal deformation-based morphometry reveals spatio-temporal dynamics of brain volume changes in patients with corticobasal syndrome

Pieperhoff, Peter* ; Ferrea, Stefano ; Krause, Holger ; Groiss, Stefan Jun ; Elben, Saskia ; Wojtecki, Lars ; Zilles, Karl* ; Amunts, Katrin* ; Schnitzler, Alfons ; Südmeier, M (Corresponding author)

2012
PLoS Lawrence, Kan.

Published in: PLoS one 7 (7) e41873 - [10.1371/journal.pone.0041873] S·F·X

Pubmed; OPEN ACCESS Pubmed Central Fulltext;
Web of Science (WOS); Citing articles (WOS); Related articles (WOS)

Report No.: FZJ-2012-00157

Abstract: Corticobasal syndrome (CBS) is a rare neurodegenerative disorder characterized by a progressive and asymmetric manifestation of cortical and basal-ganglia symptoms of different origin.
The spatio-temporal dynamics of cerebral atrophy in CBS is barely known. This study aimed to longitudinally quantify the individual dynamics of brain volume changes in patients with CBS as compared

Contributing Institute(s):

1. Strukturelle und funktionelle Organisation des Gehirns (INM-1)
2. Zentralbibliothek (ZB)

Research Program(s):

1. 332 - Imaging the Living Brain (POF2-332) (Gesundheit)

Appears in the scientific report 2012

Database coverage:

Due to reporting requirements: 3 step document flow

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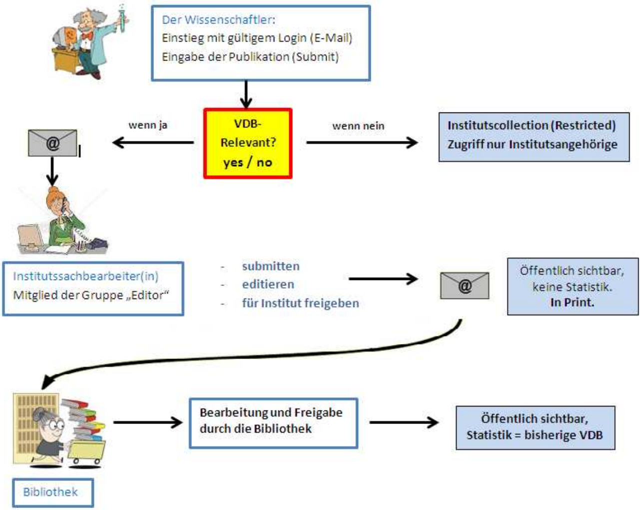
Due to reporting requirements: 3 step document flow



Thanks to H. Lexis

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JuSER – Main features

- Import interfaces (improve data quality, ease up input)

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- Exports to BibTeX/EndNote (Integrate with citations management)

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- Add full texts

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- Normalize as much as possible (Key: Authorities)

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- Institute collections (collect and share documents)
- Add full texts
- Normalize as much as possible (Key: Authorities)
  - Authors (tell apart Meier and Meier)
  - Institutes
  - Journals
  - Projects (POF, EU, . . .)
  - . . .

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  - Authors (tell apart Meier and Meier)
  - Institutes
  - Journals
  - Projects (POF, EU, . . .)
  - . . .

. . . Users don’t need to care about technical details . . .

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Collections

- Publicationsdatabase: Publications from Jülich

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Collections

- Publicationsdatabase: Publications from Jülich
- Documents in Print:
  - approved by institutes editor
  - not approved by the library
  - e. g. papers just available Online (missing bibliographic data e. g. pages, volume)

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  - already visible on institutes web pages
- OpenAccess repository JUWEL
- Institute Collections:
  - Institutes private workspace
  - e. g. drafts, collected literature, journal clubs . . .
  - Access for members of the institue only
- Authorities

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JuSER - JuSER - Mozilla Firefox
File Edit View History Bookmarks Tools Help
Search News Uni FR Bib Wiki SRV Chess Comp Tiny
juser.fz-juelich.de/?ln=en
JuSER
admin :: logout
JUSER
JÜLICH
FORSCHUNGSZENTRUM
SEARCH SUBMIT PERSONALIZE HELP ADMINISTRATION
Search 128,357 records for:
any field
Search Browse
Search Tips :: Advanced Search
Narrow by collection:
Publications database (64,428)
Documents in print (102)
JUWEL (2,583)
Institute Collections (56,073)
B (0) BFC (0) BR (0) BSG (0) DSB (0) ETN (0) F (0) FA.PARTEC (0) FD (0)
FGZ (0) FS (0) G (0) GRS (0) IAS (1,293) IBG (5,945) IBN (2,184) IBOC (0)
ICS (6,201) IEK (15,949) IKM (0) IKP (3,759) IMET (19) INB (2,982) INM (3,894)
ITS (0) JARA (0) JCNS (1,992) JSC (4,013) JULAB (0) KME (0) M (0) MOD (0)
N (0) NIC (222) O (0) P (0) PGI (11,089) PTJ (0) R (0) REV (0) S (0) SL (0)
T (0) TB (0) UE (0) UK (0) US (0) VB (1) VS (0) WTR (0) ZAT (461) ZB (394)
ZC (0) ZCH (869) ZEL (936)
Authorities (63,269)
Grants (15,266) Institutions (2) Institutes (437) People (18,108) Periodicals (29,391)
Publication types (35) Statistics keys (25) Controlled vocabulary (7)
Focus on:
Document types (64,538)
Articles (17,733) Books (7,429)
Events (75) Other Resources (0)
Patents (2) Presentations (43,026)
Reports (868) Theses (2,138)
Unpublished (0)
QUICK LINKS
Central Library
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Reading Room
Publishing House
Subject Information Portal
Recent additions
In Print

Institute Collections

JuSER can hold documents beyond own publications

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Institute Collections

JuSER can hold documents beyond own publications

- webbased literature management
- document exchange at the institutes
- centralized collection of papers
- easy export to formatting tools (BibTEX, EndNote)
- commenting (individual and in group)

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- centralized collection of papers
- easy export to formatting tools (BibTEX, EndNote)
- commenting (individual and in group)

- Institute collections require proper login
- Non-VDB relevant items do not show up on the webpage
- ZB does not care about usage

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Part II: Basic Usage

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Submit

1. Log in (LDAP based)
2. Select Submit from the main menu (http://juser.fz-juelich.de/submit)
3. Select document type

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   - take care of the authors
   - Own publication? ⇒ VDB-Relevant = yes

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5. Add full text
6. Submit it:

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6. Submit it:
   - “Finish & Release” (proceed to next level in workflow)
   - “Postpone” (generates `TEMPENTRY`)

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   - "Postpone" (generates `TEMPENTRY`)

Permissions & workflow: quite complex collection structure

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Book Submit New Record page: 1 SUMM

Book

Import data VDB Relevant yes no Supported by FZJ-Employee yes no

Institute(s) R&D Section

Grant Name Report Number

Author(s) Title

Publication Year Language

Conference name Acronym City

Country Begin End

ISBN Extent

Edition Publisher Publisher`s City Series

Volume

Abstract

Additional Information

Please upload your full text Durchsuchen...

Finish & Release Postpone

Field designations

Red: mandantory for a full bibliographic description

Black: might not all apply

Blue: save manual work!

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Field designations

Red: mandantory for a full bibliographic description

Black: might not all apply

Blue: save manual work!

Import data

. . . is always available and allows to fetch data from external or internal sources.

PS: ⓘ is the manual (Wiki-based, german and english)

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Import HowTo

- DOI: insert doi or dx.doi.org-url (e. g. 10.1016/j.physletb.2006.11.038)
- `pubmed` : copy as displayed (e. g. PMID: 20923669)
- `arXiv.org` : copy as displayed (e. g. arxiv:hep-ph/0610431)
- inspire: use URL
- own: `recid:` + record-Id or `037__a` (e. g. recid:FZJ-2013-00499)
- ISBN: use the ISBN-field for this import

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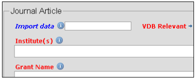

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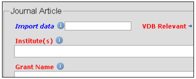

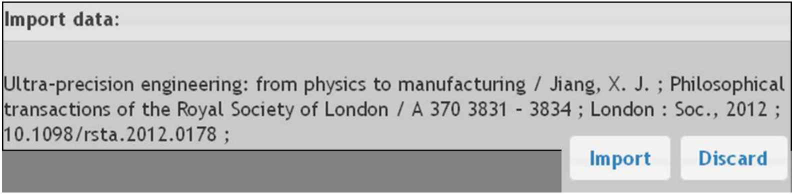

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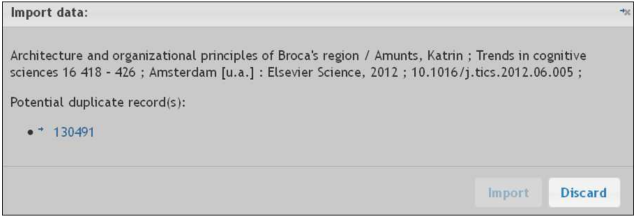
Duplicate entries



At import via doi, pmid, arXiv. . . JuSER

- can identify potential duplicates
- refuses the import
- shows links to the potential dupes

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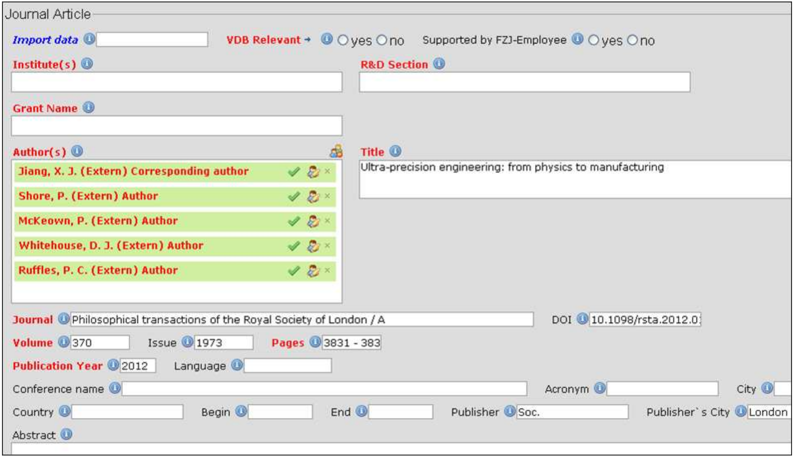
E. g. DOI Import


Journal Article

Import data VDB Relevant → ○yes ○no Supported by FZJ-Employee ○yes ○no

Institute(s) R&D Section

Grant Name

Author(s) Title

Jiang, X. J. (Extern) Corresponding author

Shore, P. (Extern) Author

McKeown, P. (Extern) Author

Whitehouse, D. J. (Extern) Author

Ruffles, P. C. (Extern) Author

Title: Ultra-precision engineering: from physics to manufacturing

Journal: Philosophical transactions of the Royal Society of London / A DOI: 10.1098/rsta.2012.0

Volume: 370 Issue: 1973 Pages: 3831 - 383

Publication Year: 2012 Language

Conference name Acronym City

Country Begin End Publisher: Soc. Publisher`s City: London

Abstract

Most red fields are filled in already!

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Authors

Upon import

authors are a mere guesses by the system. Check them!

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Authors

Upon import

authors are a mere guesses by the system. Check them!

- : confirm the guess
- : correct a wrong guess
- : remove an entry
- : clear the whole list

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Authors

Upon import

authors are a mere guesses by the system. Check them!

- : confirm the guess
- : correct a wrong guess
- : remove an entry
- : clear the whole list

- Associate only authors that show an email address/institute
- If unsure, leave them red

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Author input and association

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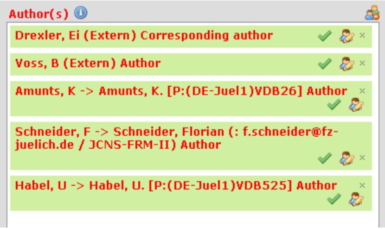
Author input and association



Note: ZB covers publication costs if the *corresponding author* is from Jülich.

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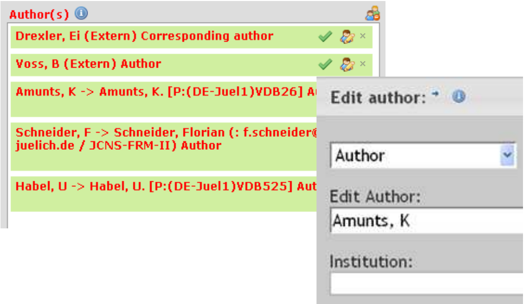
Author input and association



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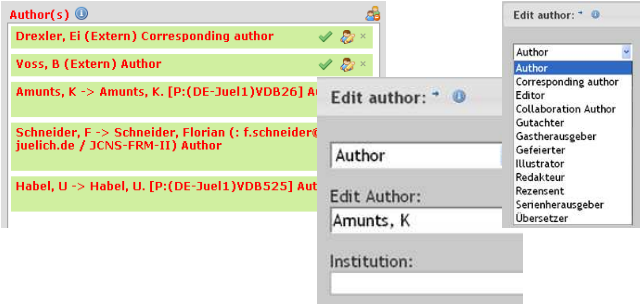

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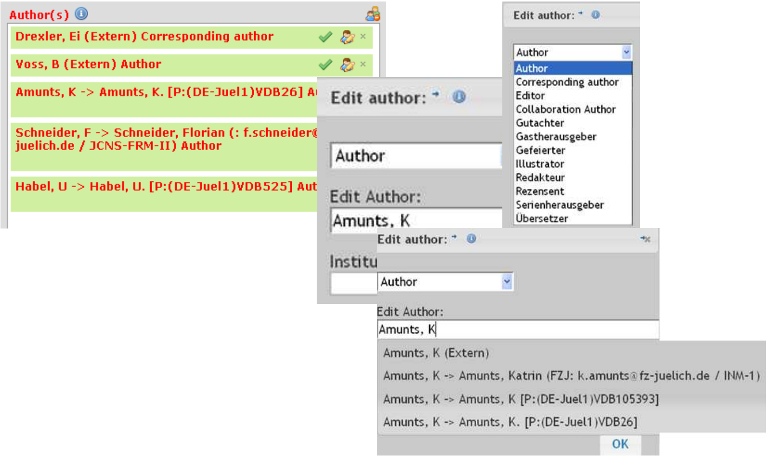

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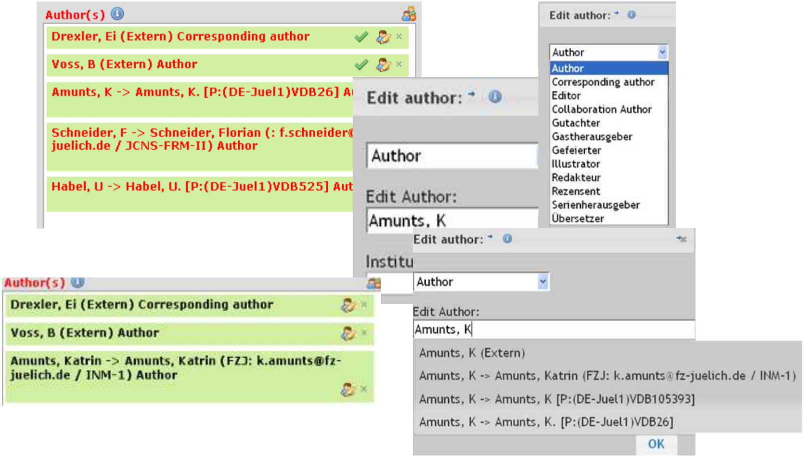

Note: ZB covers publication costs if the *corresponding author* is from Jülich.

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Own publications

Author association

allows easy extraction of individual and exact publication lists.

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Own publications

Author association

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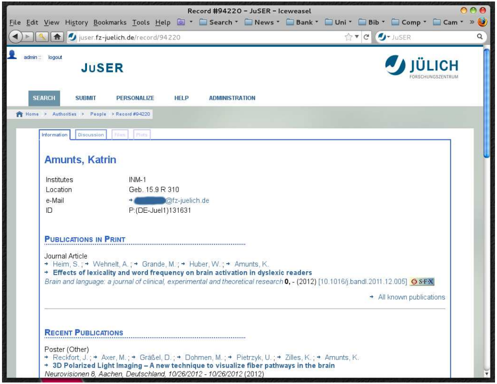

Claim work (required only once!)

1. Log in
2. Navigate to: Authorities / People (http://juser.fz-juelich.de/collection/People)
3. Search for own name (e. g. `'Hofmann, D'`)
4. Note the IDs in question (e. g. `P:(DE-Juel1)VDB63458` and `P:(DE-Juel1)129471`)
5. Open details and check the records found by the link
   `All known publications` (below the list of recent publications)
6. notify `juser@fz-juelich.de`

   (e. g. if the above two people are the same, we need both ids to join them)

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Claim work (required only once!)

1. Log in
2. Navigate to: Authorities / People (http://juser.fz-juelich.de/collection/People)
3. Search for own name (e. g. `'Hofmann, D'`)
4. Note the IDs in question (e. g. `P:(DE-Juel1)VDB63458` and `P:(DE-Juel1)129471`)
5. Open details and check the records found by the link
   `All known publications` (below the list of recent publications)
6. notify `juser@fz-juelich.de`

   (e. g. if the above two people are the same, we need both ids to join them)

To search own publications use `aid:` and own ID in quotes (“”)

e. g. `aid:“P:(DE-Juel1)133794”`

Want only first authorships? Use `fai` instead of `aid`.

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Part III: Installation

June 15, 2013 | Alexander Wagner

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Repositories @ HGF

Roll out and desaster recovery

the same code on at least 5 different instances and keep it consistent by avoiding manual configuration.

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Repositories @ HGF

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Repositories @ HGF

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- git: `hgf-invenio` (centrally kept at DESY)
  - overlay for our instances (our additions)
  - our patches (no replacements!)
  - directory structure like `/opt/invenio`
  - setup routines for roll-out (e. g. collections, rolles, doctypes. . .)
  - instances configs

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sets up the whole instance at each partner in the proper layout including all global (hgf) and local configs

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- enables desaster recovery
- allows setup of an identical test environment

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Invenio @ HGF

Part IV: Backend

June 15, 2013 | Alexander Wagner

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HGF “specifics”

Broad areas of research

some INVENIO-HEP-specifics just don’t work

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- Normalize all you can get
  - to be handled by uses & librarians, not programmers
  - vitally important: Authorities

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HGF-Modules

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Every unwritten line of code is a good line of code!

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Authorities: Types of Records

- People e. g. authors

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  - individualize(!) local authors
  - entries are real people, not names (distinguish Wagner, A. and Wagner, A.)
  - connect to local institutes (incl. history)
  - allow interchange of records (e. g. Jülich with RWTH Aachen and MLZ)

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  - complex topography in names (e. g. loops)

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  - horizoncal as well as vertical connections
  - different types (POF (HGF-specific), EU, DFG, . . .)
  - flexibly extensible by librarians
  - visibility in websubmit depending on instance

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  - allow for classifications (e. g. POF level)

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- rich, browserbased GUI: (AJAX and CSS)

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- use encoding scheme for returns (allow processing in loops)
- define hidden subfields to keep structures (e. g. repeatable fields)
- invisibly enrich data from the backend (e. g. IDs, DDC, statistics keys. . .)

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New stuff for Websubmit

- repeatable fields (tokeninputs)

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Handling

Add hidden fields for all visible fields and do the fancy stuff there.
Pass on string encoded JSON structures.

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Backend

Expose records in JSON structures to JavaScript

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  - use webbased frontend if possible
  - use pythonic BFE only for complex stuff
  - complex returns as ready to use text (i. e. escape substructures to strings)

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  1. Field/Subfield: `I245__a`
  2. Structure: `I536__`

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  1. Field/Subfield: `I245__a`
  2. Structure: `I536__`
- innerrecordlinks: return from the backend (e. g. `536__` and `913__`)

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Generate People Records

Use the local phone book (=LDAP, avoid privacy issues)

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Use the local phone book (=LDAP, avoid privacy issues)

- LDAP harvesting (once a night, currently cron)
- unique IDs over time (email not suitable: limited TTL, recycling for common names)
- allow for arbitrary IDs
- allow for multiple IDs per entity (0247_ vs. 035__a)
- allow usage of IDs from several sources

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Goal

Implement ORCiD linkup with automagic registration/fetching

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Statistics

Use Marc `915__`

Upon journal association: keys $\rightarrow$ bibliographic records

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Statistics

Use Marc 915__

Upon journal association: keys $\rightarrow$ bibliographic records

- Pythonic beancounters (use `intbitsets`)

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Statistics

Use Marc `915__`

Upon journal association: keys $\rightarrow$ bibliographic records

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- allow live Web query (if fast enough)

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- allow complex queries

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- allow complex queries, e. g.
  - output per institute and/or program
  - all JCR covered journal articles with external authors
  - all `Scopus` listed articles from John Smith (director of Inst X)
  - …

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  - all `Scopus` listed articles from John Smith (director of Inst X)
  - …
- CLI is enough, but should be easily adoptable

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Statistics

Use Marc `915__`

Upon journal association: keys $\rightarrow$ bibliographic records

- Pythonic beancounters (use `intbitsets`)
- allow live Web query (if fast enough)
- allow complex queries, e. g.
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- generate structures outputs (for spreadsheet, literature management)

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Statistics/2: Bibliometrics

Mainly in Jülich: JuSER is source for bibliometric evaluations

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- link up with `Web of Science`(just another ID ⇒ 0247_)
- semiautomatic `Web of Science`-ID assignments (doi2ut)
- specific exports
- planned: direct link to workflow tools

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In principle

. . . all queries can be done in the Webfrontend

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OpenAccess

- Aquire more fulltexts

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- OAI-Harvesting for BASE and friends

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Next Steps

- Upgrade from 1.0 to 1.1 or, more likely, 1.2 (fix OAI Server!)
- Feed Google Scholar (how?)
- Get pending instances online:
  - RWTH Aachen
  - MLZ
- At Jülich: implement crossharvesting (RWTH ↔ FZJ ↔ MLZ)
- Add workflow for “vita” (workflows for special collections)

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JÜLICH FORSCHUNGSZENTRUM

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Continually refactor/check code to get ready to give back

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Project partners

Deutsches Elektronensynchrotron, Zentralbibliothek

Forschungszentrum Jülich, Zentralbibliothek

GSI Helmholtzzentrum für Schwerionenforschung, Biblitohek + Kern-IT

RWTH Aachen, Hochschulbibliothek

Maier-Leibniz-Zentrum, Garching

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Questions?

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Zentralbibliothek

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