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FORSCHUNGSZENTRUM

Invenio @ HGF

JuSER

June 17, 2013 | Alexander Wagner |

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Overview

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- History
- Basic Usage
- Installation
- Backend

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Part I: History

June 17, 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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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 (≈ 4500 full text files, ≈ +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] → SFX

→ 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

Der Wissenschaftler:
Einstieg mit gültigem Login (E-Mail)
Eingabe der Publikation (Submit)

VDB-Relevant? yes / no

wenn ja

wenn nein

Institutscollection (Restricted)
Zugriff nur Institutsangehörige

Institutssachbearbeiter(in)
Mitglied der Gruppe „Editor“

- submitten
- editieren
- für Institut freigeben

Öffentlich sichtbar,
keine Statistik.
In Print.

Bibliothek

Bearbeitung und Freigabe
durch die Bibliothek

Öffentlich sichtbar,
Statistik = bisherige VDB

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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- Institute collections (collect and share documents)
- 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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  - 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

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- 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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- 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
- Library Catalogue
- Literature Request
- 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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Institute Collections

JuSER can hold documents beyond own publications

- webbased literature management
- document exchange at the institutes
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- 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

June 17, 2013 | Alexander Wagner

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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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4. Fill in the submit form

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   - take care of the authors
   - Own publication? $\Rightarrow$ VDB-Relevant = yes

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   - take care of the authors
   - Own publication? $\Rightarrow$ VDB-Relevant = yes
5. Add full text
6. Submit it:

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

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Permissions & workflow: quite complex collection structure

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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

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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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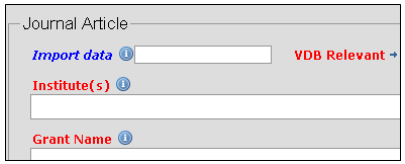

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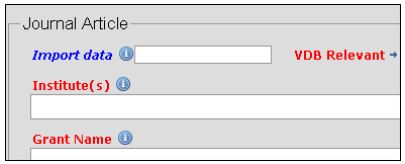

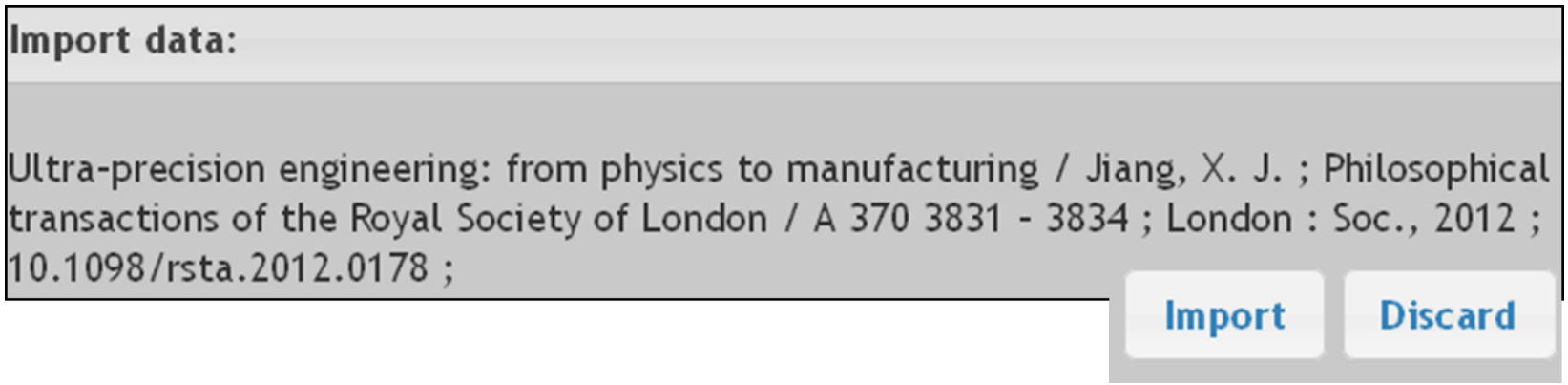

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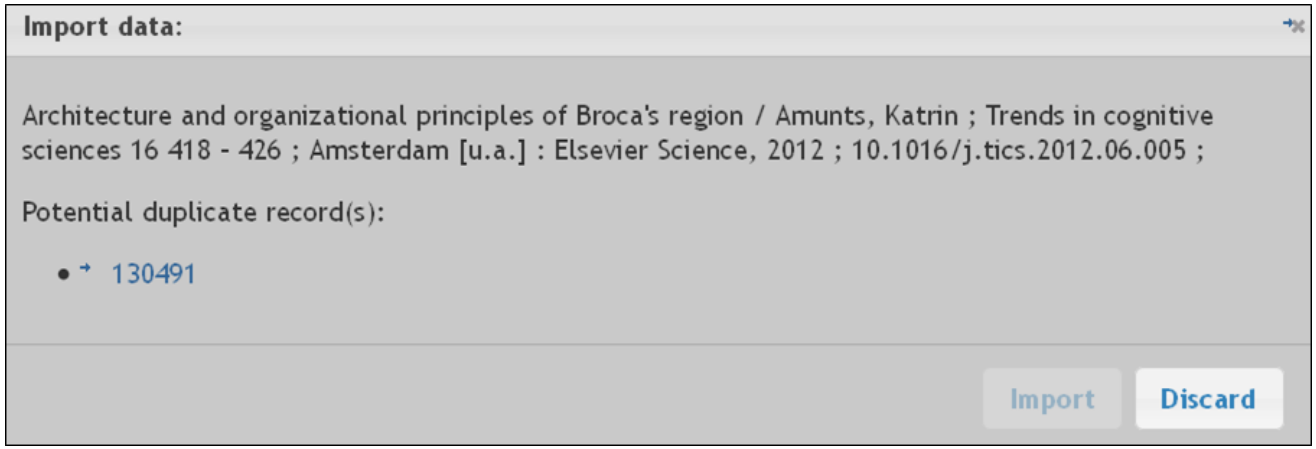
Duplicate entries



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

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

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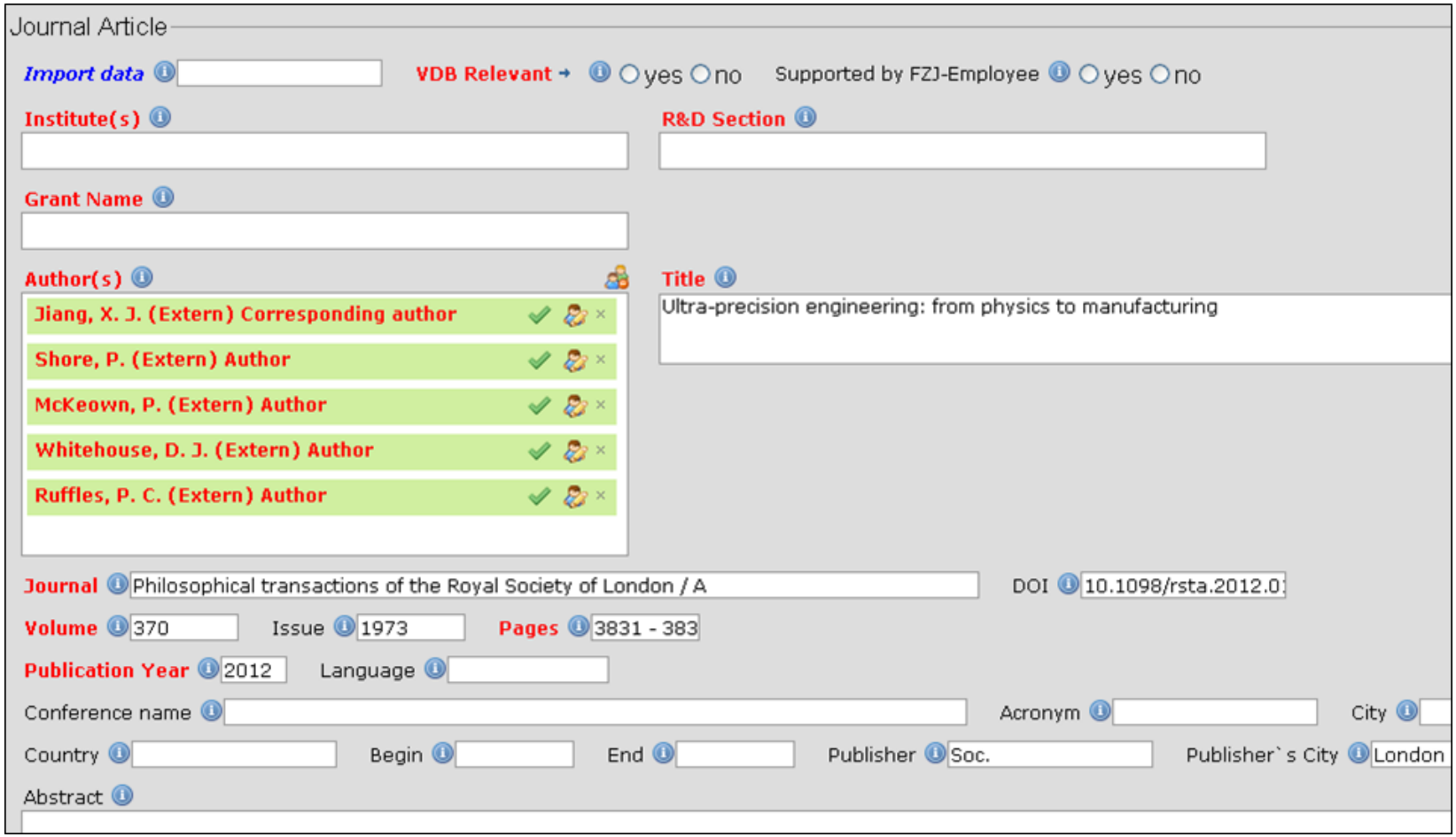
E. g. DOI Import



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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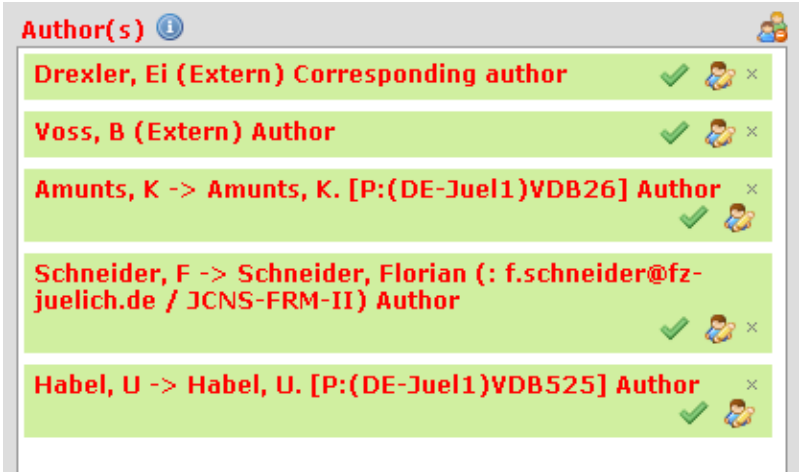
Author input and association



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

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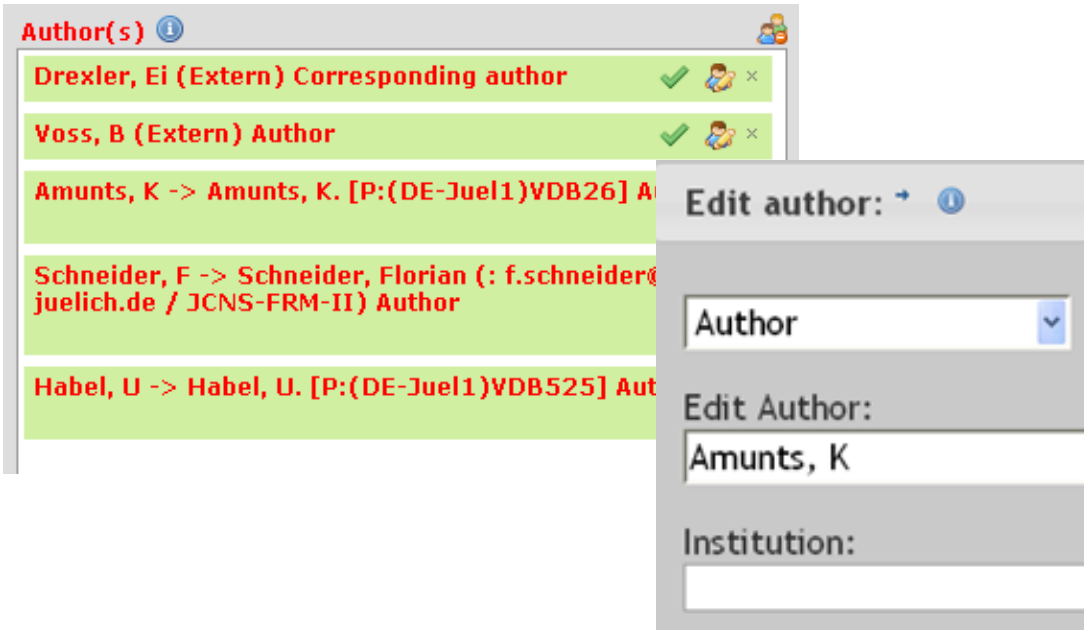
Author input and association



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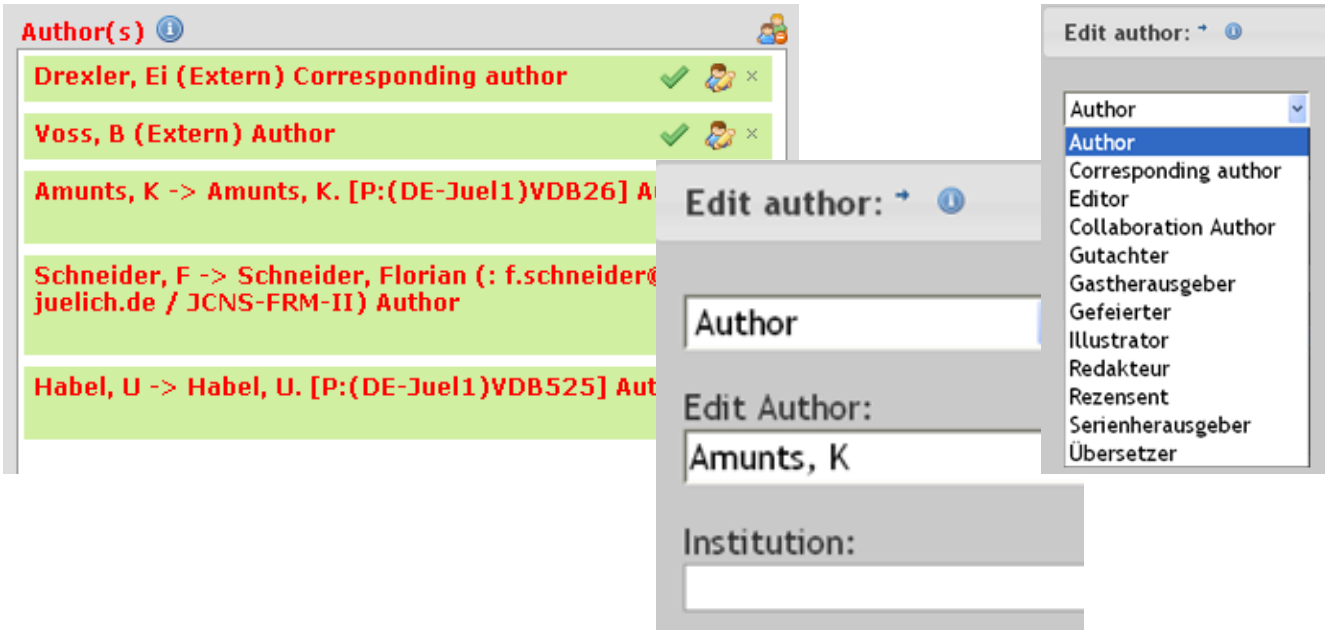

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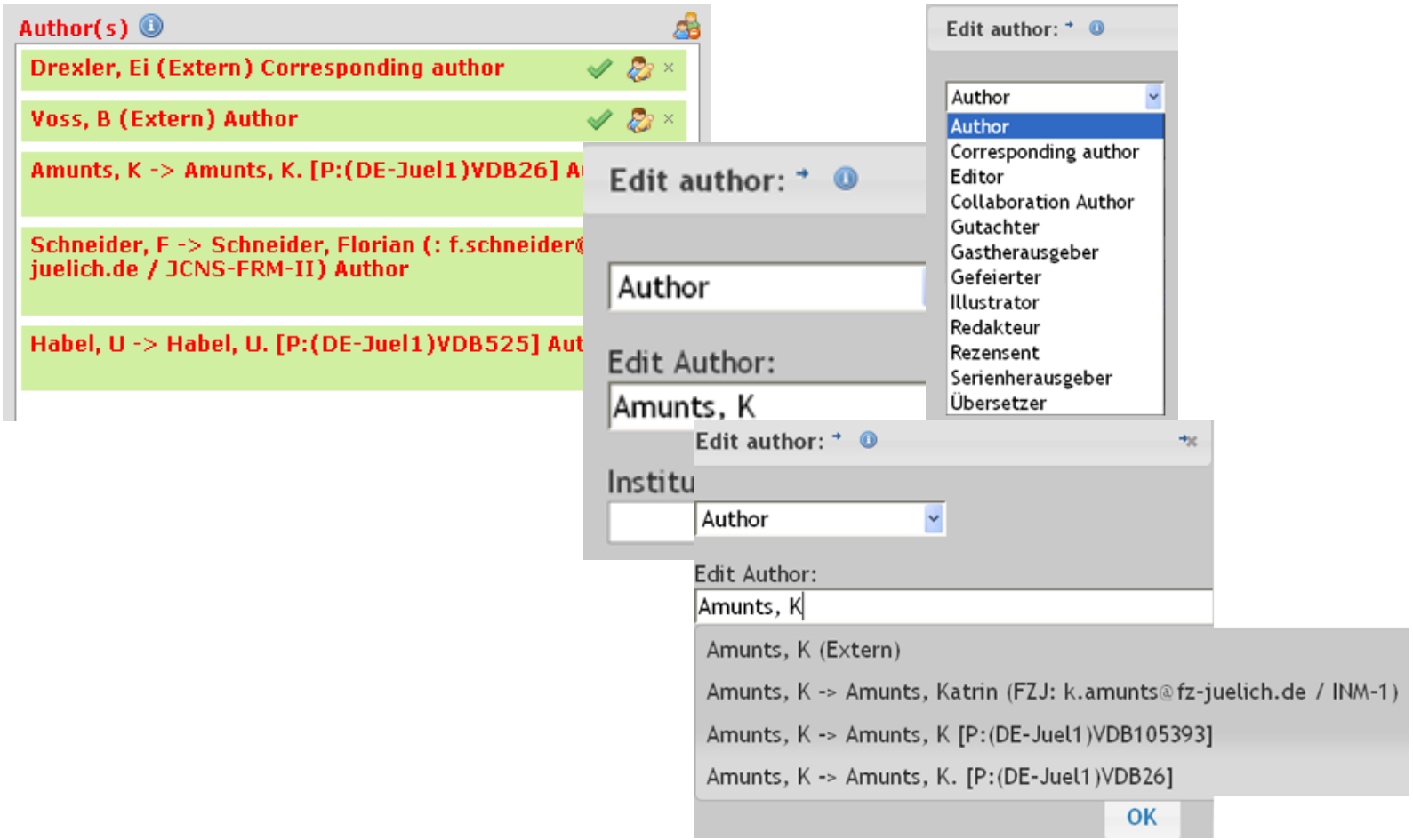

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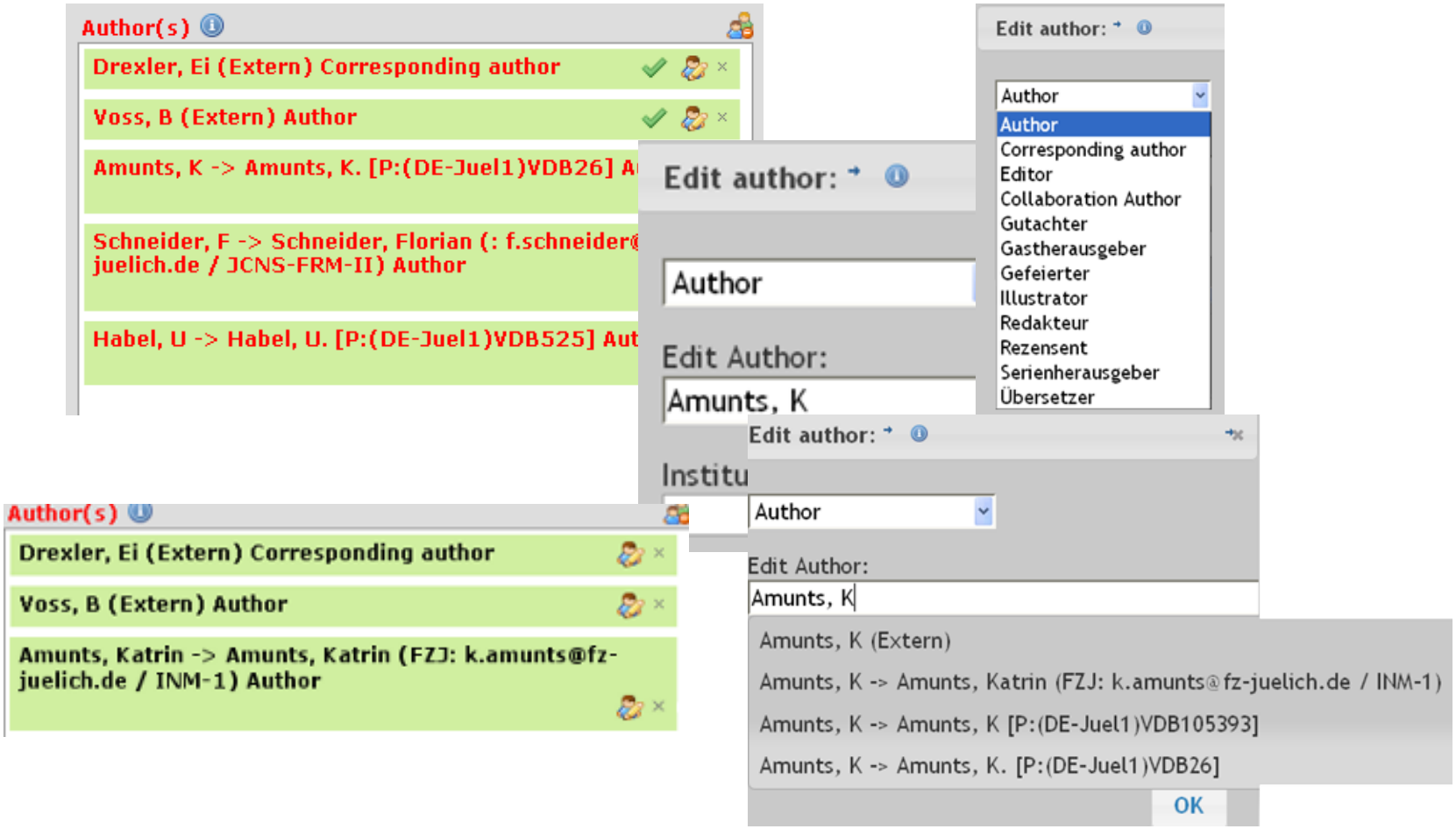

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Author association

allows easy extraction of individual and exact publication lists.

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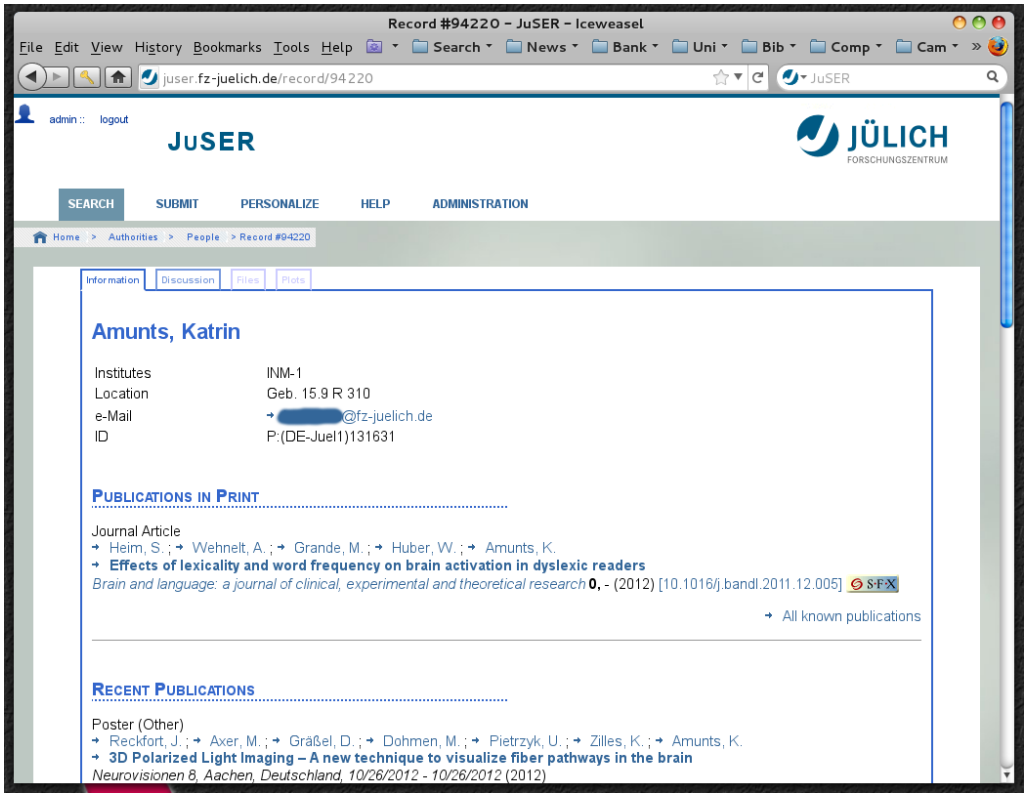

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Claim work (required only once!)

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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Invenio @ HGF

Part III: Installation

June 17, 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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  - used for base system
  - applied by `configure/make/make install`
- 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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InstallInvenio

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- no need to mouse click in the GUI
- enables desaster recovery
- allows setup of an identical test environment

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Invenio @ HGF

Part IV: Backend

June 17, 2013 | Alexander Wagner

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HGF “specifics”

Broad areas of research

some -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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Other functions

Always try to use INVENIO functions like alerts, baskets, ...

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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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Authorities: Types of Records

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  - allow harvesting of records generated
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  - allow for classifications (e. g. POF level)

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Frontend

- rich, browserbased GUI: (AJAX and CSS)

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- avoid program logic (backend has to deliver ready to use data)
- 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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  - authors
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  - statistics keys

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  - Identfiers
  - statistics keys

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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- no repeatable subfields simplifies JSON

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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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  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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- 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 → 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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- allow live Web query (if fast enough)
- 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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  - ...
- CLI is enough, but should be easily adoptable
- generate LaTeX-based reports
- generate structured 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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Mainly in Jülich: JuSER is source for bibliometric evaluations

- 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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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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