PUB Developer Documentation

Release 2.0

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Contents:

EMBED PERSONAL PUBLICATION LIST

1. Find your personal ID at the Directory of Staff and Departments.

2. Visit your personal publication page at PUB `http://pub.uni-bielefeld.de/person/{ID}`.

3. Use the filters on the right hand side to modify your list.

4. Click "Embed as" to choose your embedding method.

SEARCH API

The REST API provides an easy way for exporting and embedding your publications. The service is located at

> `http://pub.uni-bielefeld.de/publication` for publications

and at

> `http://pub.uni-bielefeld.de/data` for research data.

Note: Only GET requests are supported.

Param- eter	Values	Description
`q`	See section on CQL	Contextual Query Language
`start`	integers, starting from 0	used for pagination, record number to start from
`limit`	integers	maximum number of publications
`sort`	`{fieldName}.{asc|desc}`	uses the fieldName for sorting, if sortable, default is publishingYear.desc
`ftyp`	`js iframe ajx`	embed list as javascript, iframe or static html
`listyle`		`<ul>` tag will have a class attribute, use for your own css classes
`fmt`	`dc dc_json ris json yaml bibtex rdf mods rtf`	Specify an export format, do no use in combination with ftyp
`style`		citation style of the publication list

2.1 Example queries

get all CITEC publications (id=8014655)

`http://pub.uni-bielefeld.de/publication?q=department=8014655`

sort by year, ascending

`http://pub.uni-bielefeld.de/publication?q=department=8014655&sort=publishingYear.asc`

display record no. 100 – 200

`http://pub.uni-bielefeld.de/publication?q=department=8014655&start=100&limit=100`

get all CITEC publications in 2011 and embed as javascript, use APA as citation style

`http://pub.uni-bielefeld.de/publication?q=department=8014655 AND publishingYear=2011&limit=1000&ftyp=js&style=apa`

2.2 Content Negotiation

PUB provides persistent links to scholary works at Bielefeld University. Typically, these URIs link to a html landing page decribing the resource and facilitating access, if available, to the self-archived Open Access copy, the publisher version and other sources referencing the scholary source (e.g. disciplinary repositories such as arXiv and Europe PubMed Central). PUB collects and curates bibliographic metadata about scholary works at Bielefeld University. All publications are linked to reliable data describing person and organizations at the university. For this purpose, PUB unifies official data sources, nameley the Authentication and Authorization Infrastructure and the Staff and Department Directory (PEVZ) at Bielefeld University. In particular, PEVZ IDs support browsing and search on staff and department lists which returns faceted results for rapid retrieval of desired information for scholary works. In addition to standard protocols and formats from the Open Repository and Digital Library Community, PUB Content Negotiation can be used to request a particular representation of the metadata describing

- a publication `http://pub.uni-bielefeld.de/publication/{id}`

- a person `http://pub.uni-bielefeld.de/person/{ID}`.

A PUB URI normally redirects to the `text/html` presentation of a resource. For example, the URI

`http://pub.uni-bielefeld.de/publication/1609190`

redirects to a landing page describing the article, "An Arabidopsis thaliana T-DNA mutagenized population (GABI-Kat) for flanking sequence tag-based reverse genetics". Content negotiated requests to http://pub.uni-bielefeld.de that ask for a content type which isn't "text/html" will be redirected to the correspondung representation requested.

For example, a client that wishes to receive BibTeX would make a request with an accept header listing "application/x-bibtex".

```
$ curl -LH "Accept: application/x-bibtex" http://pub.uni-bielefeld.de/publication/1609190
$ { @article{1609190,
  abstract    = {The GABI-Kat population of T-DNA ...},
  author      = {Rosso, MG and Li, Y and Strizhov, N and Reiss, B and Dekker, K and Weisshaar, Bernd
  issn        = {0167-4412},
  journal     = {Plant Molecular Biology},
  language    = {English},
  number      = {1},
  pages       = {247--259},
  publisher   = {KLUWER ACADEMIC PUBL},
  title       = {An Arabidopsis thaliana T-DNA mutagenized population (GABI-Kat) for flanking sequen
  url         = {http://dx.doi.org/10.1023/B:PLAN.0000009297.37235.4a},
  volume      = {53},
  year        = {2003},
}}
```

PUB supports a number of metadata content types, which are common to publications, researcher and research units.

- RDF XML (application/rdf+xml)

- MODS (application/mods+xml)

- OAI XML (application/oaidc+xml)

- OAI JSON (application/oaidc+json)

- RIS (application/x-research-info-systems)

- BibTeX (text/x-bibtex)

- JSON (application/json)

- YAML (text/x-yaml)

- CSL JSON (application/vnd.citationstyles.csl+json)

OAI HARVESTING SERVICE

For a nice introduction see the OAI-PMH-Primer.

protocol

> OAI-PMH, v2.0

base url `http://pub.uni-bielefeld.de/oai`

3.1 Example queries

get information about this repository

`http://pub.uni-bielefeld.de/oai?verb=Identify`

list export formats supported by this repository

`http://pub.uni-bielefeld.de/oai?verb=ListMetadataFormats`

list records for an export format

`http://pub.uni-bielefeld.de/oai?verb=ListRecords&metadataPrefix=oai_dc`

retrieve the next batch of records based on a resumptionToken (found in the output of the previous command)

`http://pub.uni-bielefeld.de/oai?verb=ListRecords&resumptionToken=!!!oai_dc!200`

list sets provided by this repository

`http://pub.uni-bielefeld.de/oai?verb=ListSets`

list records from a set

`http://pub.uni-bielefeld.de/oai?verb=ListRecords&set={setName}`

SRU SEARCH SERVICE

SRU is a standard XML-focused search protocol for Internet search queries, utilizing CQL (Contextual Query Language), a standard syntax for representing queries. The base url of this service is `http://pub.uni-bielefeld.de/sru`.

Note: You can find more on SRU at http://www.loc.gov/standards/sru/index.html.

4.1 Example queries

search for "analysis" in the basic index

`http://pub.uni-bielefeld.de/sru?version=1.1&operation=searchRetrieve&query=analysis`

search for "analysis" in title and 2012 in publishing year

`http://pub.uni-bielefeld.de/sru?version=1.1&operation=searchRetrieve&query=mainTitle=analys` `AND publishingYear=2012`

sort on publishing year, descending

`http://pub.uni-bielefeld.de/sru?version=1.1&operation=searchRetrieve&query=analysis&sortKey`

sort on publishing year, ascending

`http://pub.uni-bielefeld.de/sru?version=1.1&operation=searchRetrieve&query=analysis&sortKey`

start from record no. 100 and display 200

`http://pub.uni-bielefeld.de/sru?version=1.1&operation=searchRetrieve&query=analysis&startRe`

CQL

CQL, the Contextual Query Language, is a formal language for representing queries to information retrieval systems. This standard was developed by the Library of Congress and is widely used in the area of digital libraries. More information on CQL can be found at http://www.loc.gov/standards/sru/cql/index.html.

5.1 Available indexes

fields	operators	description
title	any, all, =, <>, >, exact	Searches the title of the publication
abstract	any, all, =, <>	Searches the abstract field
keyword	any, all, =, <>, exact	Searches the keyword field
keywords	-> see keyword	-> see keyword
issn	any, =, <>, exact	Journal/series identifier
eissn	-> see issn	-> see issn
isbn	any, =, <>, exact	Publication identifier
conference	any, =, <>, exact	Searches conference names
extern	=, <>, exact	1 if not a UniBi publication
fundedbyubi	=, <>, exact	1 if publication is funded by Publikationsfonds
qualitycontrolled	=, exact, <>	1 or 0
popularscience	=, exact, <>	1 or 0
ecfunded	=, exact, <>	Funded by the European Commission (1 or 0)
publicationidentifier	=, exact, <>	Searches fields isbn, eissn and issn
id	=, exact, <>, >, <, <=, >=, any	The unique PUB ID
externalidentifier	=, <>, exact	Searches external identifier types (eg. "medline", "isi")
reportnumber	=, exact, <>	Search for report numbers
patentnumber	=, exact, <>	Search for patent numbers
publishingyear	>, <, >=, <=, within, =, exact, <>, any	Publishing year of the publication
author	any, all, =, <>, exact	Author by name (author="weisshaar") or by BIS-ID (author=8
editor	any, all, =, <>, exact	-> see author
person	any, all, =, <>, exact	Searches fields author, editor and translator (-> see author)
supervisor	any, all, =, <>, exact	Searches all thesis supervised by a person via BIS-ID (supervis
orcid	=, <>, exact	Search publications by the ORCID of the author/editor.
department	=, exact, <>, any, all, >,	Search department by name (department="Fakultät für Biologi
language	=, <>, exact	Will find both, the iso version and the long version
documenttype	=, exact, <>, any	See the list of publication types for admissible types.
datelastchanged	>, <, >=, <=, =, exact, <>	Date in the form yyyy-MM-dd HH:mm:ss or yyyy-MM-dd HH
publicationstatus	=, exact, <>	See the list of publication statuses for admissible statuses.
fulltext	=, exact, <>	If 1, publications contain fulltext
publication	any, all, =, exact, <>	Searches journal title, proceeding title etc.

Table 5.1 – continued from previ

fields	operators	description
publisher	any, all, =, <>, exact	Search publishers
ddc	=, exact, <>	Search for level 2 ddc classes
volume	=, exact, <>	Search for volume

LISTS

6.1 Publication types

- Book
- Conference
- Conference Proceeding / Paper
- Dissertation
- Encyclopedia Article
- Journal Article
- Journal
- Newspaper Article
- Patent
- Preprint
- Report
- Research Data
- Translation
- Working Paper
- Bielefeld Doctoral Thesis
- Bielefeld Bachelor Thesis
- Bielefeld Master Thesis
- Bielefeld Post-Doctoral Habilitation

6.2 Publication status

- published
- inpress
- submitted
- unpublished