

Distributed Open Access Reference Citations Service

Michael Maune
Carl von Ossietzky University, Oldenburg
and Institute for Science Networking Oldenburg

Introduction



- Developed as back-end-service
- Aggregating meta-data from institutional repositories
- Enriching meta-data
- Discovering the citation-graph
- CSN as first test-community
- Runtime: 18 months (DFG-Funded)

Project partners



- Volker Mellert
 - Carl von Ossietzky University, Oldenburg (CvO)
- Eberhard R. Hilf
 - Institute f
 ür Science Networking Oldenburg GmbH (ISN)
- Peter Schirmbacher and Frank Havemann
 - Berlin school for information and library science (IBI), Humboldt-University Berlin
- Wolfgang Christen
 - Institute of Chemistry (IfC), Humboldt-University Berlin

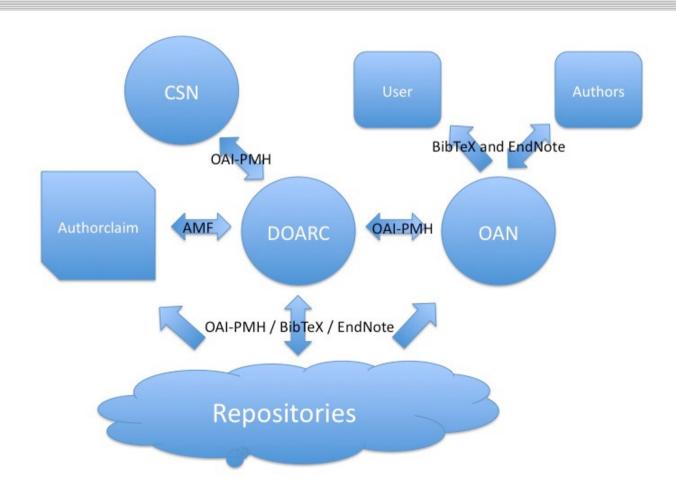
Aims and concept



- Integrating and developing tools for literature management
 - Exchange of meta-data
 - Enrich of meta-data
- Interactive visualization of documentrelations
 - Reference-analysis

Embedding into the Network





Michael Maune, Carl von Ossietzky University, ISN

Cooperation with OANetwork



- OAN as user-interface and data-provider
- Usage of OAN technology
 - Fulltext-crawler
 - Dublicate-checker
 - Classificator
- Exchange of metadata between OAN and DOARC

Content relation of documents



- Field-specific definition
 - Identifying field-specific word-combinations
 - Building field-specific fingerprints
 - Assigning new documents to fields
- Field-specific thesaurus
 - Usage of lexical analysis
 - Identifying thematically similar documents

Cooperation with AuthorClaim.org



- AuthorClaim database is synced with DOARC
 - Small set of meta-data (title, authors, url)
 - Information about claimed and unclaimed documents
- Information of claimed and unclaimed documents used in user-interface
 - Encourage authors to use AuthorClaim





- Usage of the Author Contribution Information System (ACIS)
 - Author registers to the system
 - Sets up a list of acronyms
 - Claims affiliation with institutions
 - Gets displayed a list of possible publications
 - Claims/rejects the listed papers

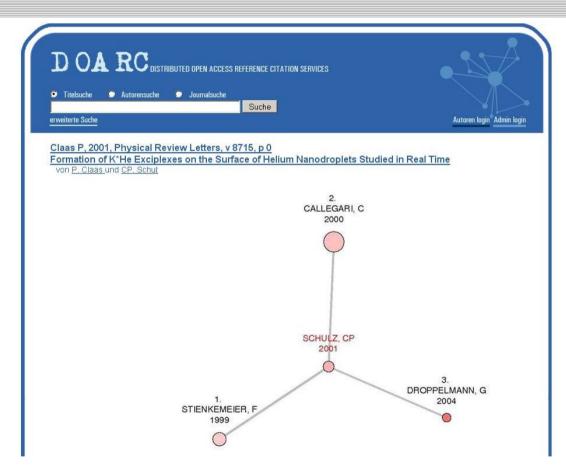
Benefits



- Added value for authors by claiming their publications
- Increasing the data-space on both sides
 - More documents for authors to claim
 - More documents for readers to find
- Increasing the quality of meta-data

Citation Networking





Size of nodes = number of citings

Color of nodes= relevance

Strength of link = similarity

http://doarc.projects.isn-oldenburg.de

Network-graphs of papers



- Different dimensions of probability
 - Bibliographic coupling
 - Co-citing
 - Lexical coupling
- Different ways to visualize the similarity
 - Network-graphs
 - Sortable lists

Data import and coverage



- Data im-/export in different ways
 - OAI-PMH
 - BibTeX/EndNote
 - Author-Publication-Lists
 - Proprietary Provider-APIs
- Get the biggest possible set of meta-data
- Aggregate and enrich this meta-data

Aims of DOARC



- Higher usage of OA-documents resulting from better visibility
- Supporting Authors in action
 - Finding thematically relevant publications
 - Simple usage of metadata (Import/Export)
 - OA-publishing with complete meta-data

Author- and user-tools



- Support through the whole writing process
 - Making it easy to find relevant papers
 - Add papers to a reference-list
 - Exporting this reference-list in preferred format
 - Upload the document incl. reference-list
 - Enter further meta-data
- Export own publication-list

Prospects and future



- Expanding data-space
- Expand from german OA-sources to international sources
- Further enhancing the referenceextraction-tools



- Project-site
 http://www.isn-oldenburg.de/projects/doarc2/
- Contact me maune@isn-oldenburg.de
- Our Institute
 http://www.isn-oldenburg.de