Perspectives of Open Citations for Specialized Information Services

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Specialized Information Services (FID) at UB Frankfurt

Currently seven specialized information services (FID)
- Commonality: Provisioning of focused community with literature and databases
- Differences
  - Directions, target groups and sizes
  - Functionalities: catalog, community support, text and data mining, etc.

Bibliographic information are not considered yet but desirable:
- Additional information for the user (before reading the publication)
- Enables bibliographic services
- Overall an interesting extension area for FIDs
An Example: FID Jewish Studies

Ronit Meroz

The Spiritual Biography of Rabbi Simeon bar Yochay
An Analysis of the Zohar’s Textual Components
Extraction of references: current literature

Mixed bibliographies: Hebrew and Latin

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<th>Das Buch Bahir, ein Schriftdenkmal aus der Frühzeit der Kabbala auf Grund der kritischen Neuaugabe / von Gerhard Scholom</th>
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<td>Beteilig:</td>
<td>Scholem, Gershom (Hrsg.)</td>
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Bibliography

Frankfurt, Universitätsbibliothek J. C. Senckenberg, Zentralbibliothek (ZB)

| Signatur: | 12.220.81 |
| Ausleihterhaltbarkeit: | normal ausleihbar |
Extraction of references: retro-digitisation

Possible bibliographic services

- Citations as an indicator for the impact of a publication / author / topic
  - Improvement of discovery services
  - Temporal aspects should be respected
- Additional information about authors and collaborations
- Eases the state of the art overview
- Enable different kinds of visualizations

https://clarivate.libguides.com/woscc/citationnetwork
Co-Author Graph

https://commons.wikimedia.org/wiki/File:Co_author_graph.png
Analysis of most cited venues

Microsoft Academic Graph, 2018
https://github.com/Azure-Samples/academic-knowledge-analytics-visualization/tree/master/src/AcademicAnalytics/09.%20Conference%20Top%20Citing%20Venues
To have fun, we need data

Challenges
- How to get/extract bibliographic information?
- How to achieve a high quality?
- How to create a large data set of citations?

In the best case: Citation data is available from publishers, CrossRef, etc. → Probably only for newer publications

Data extraction from digitized documents (at least digitized bibliographies)
- High degree of automation desirable
- Automatic methods for the initial extraction
- Manual work
  - Errors correction
  - Enhancements

Join forces
- FIDs cover special areas of interest → Starting point for collaboration
- Collaborative working → Technical support for collaboration
- Sharing of results → Link Open Data
- Technical Infrastructure → Centralized vs. decentralized

LOC-DB could be the point of departure for a joined effort
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