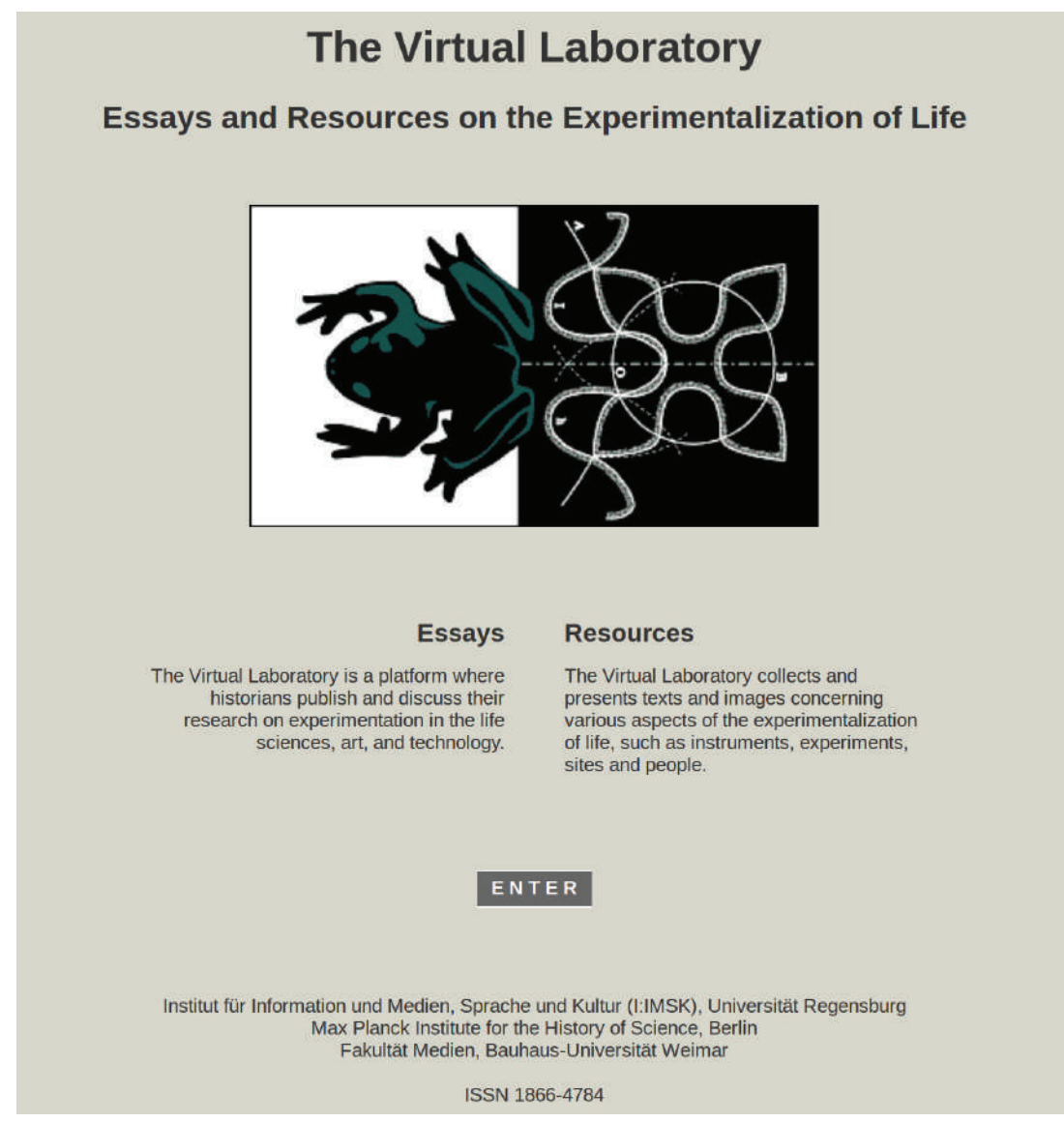


Discourse Analysis as an Information Retrieval Problem



Research Question Development
(1) Related Work Search

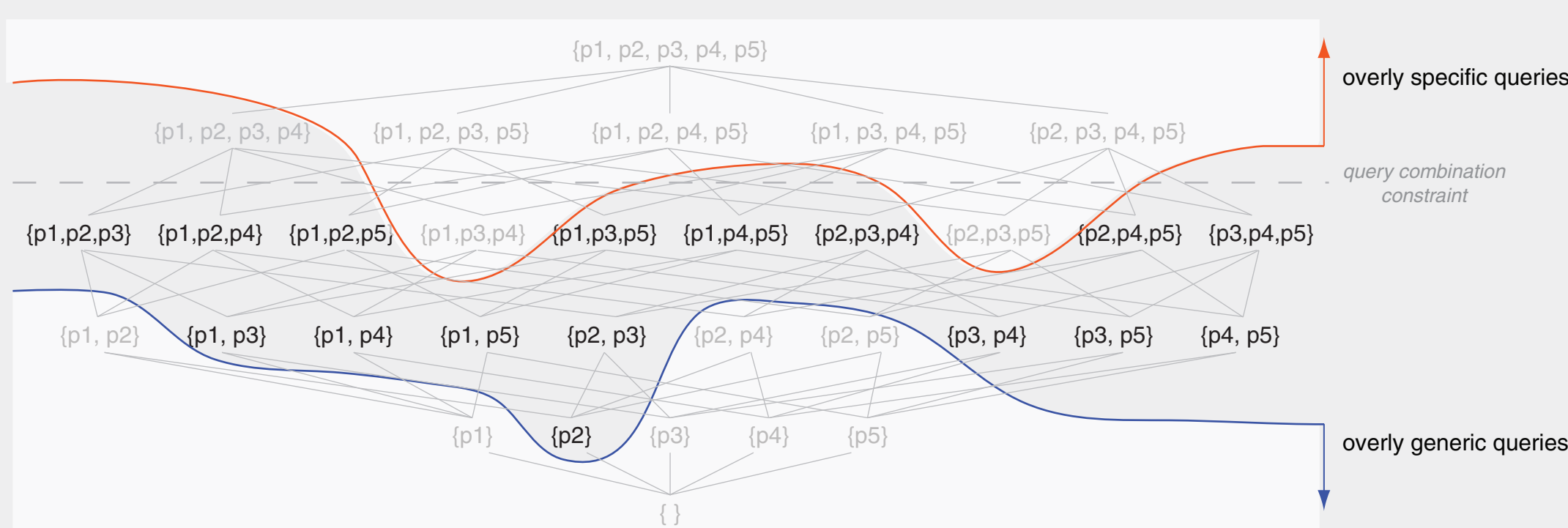
Research Question Modeling
(2) Taxonomy Composition

Corpus Acquisition
(3) Meta-Data Retrieval

Discourse Analysis
(4) Exploratory Search

Result Synthesis
(5) Physicalization

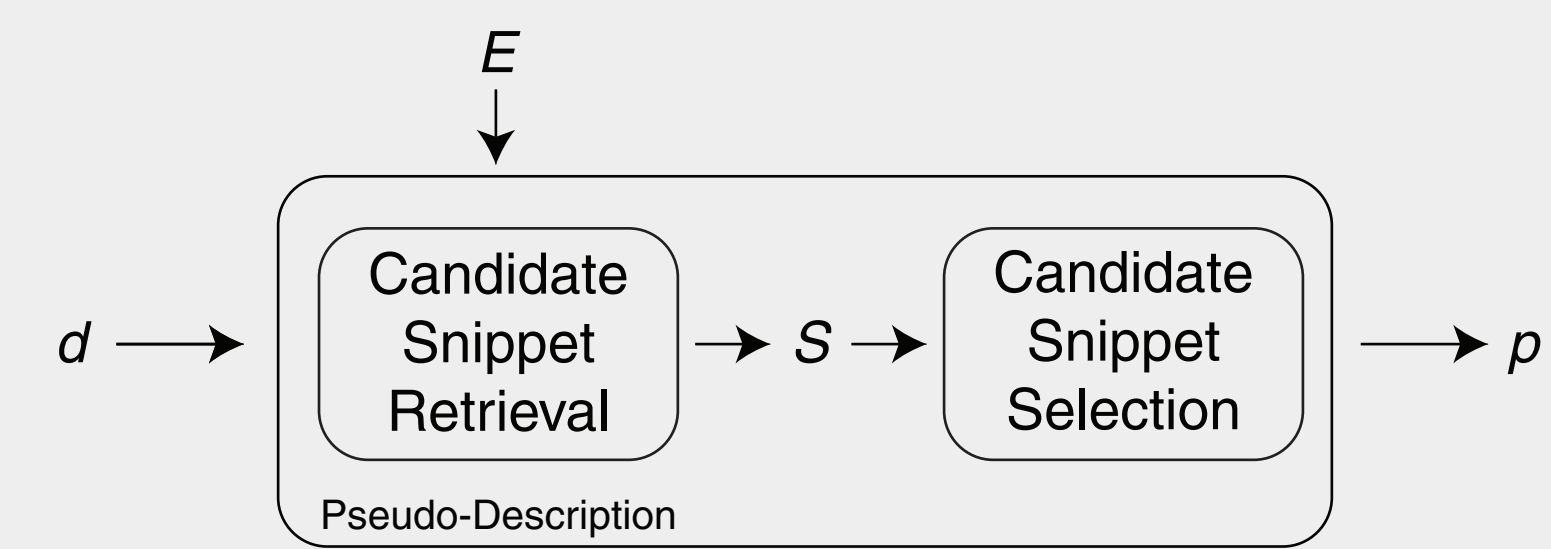
(1) Supporting Scholarly Search with Keyqueries (ECIR 2016)



Generation of **relevant search queries** from a **publication set** for the retrieval of related work.

Algorithm	nDCG@10	rec _c @50	rec _{ir} @10
Nascimento	0.58	0.34	0.16
Sofia Search	0.60	0.33	0.20
Google Scholar	0.60	0.43	0.21
Keyquery Cover	0.62	0.37	0.16
KQC+Sofia+Google	0.65	0.48	0.24

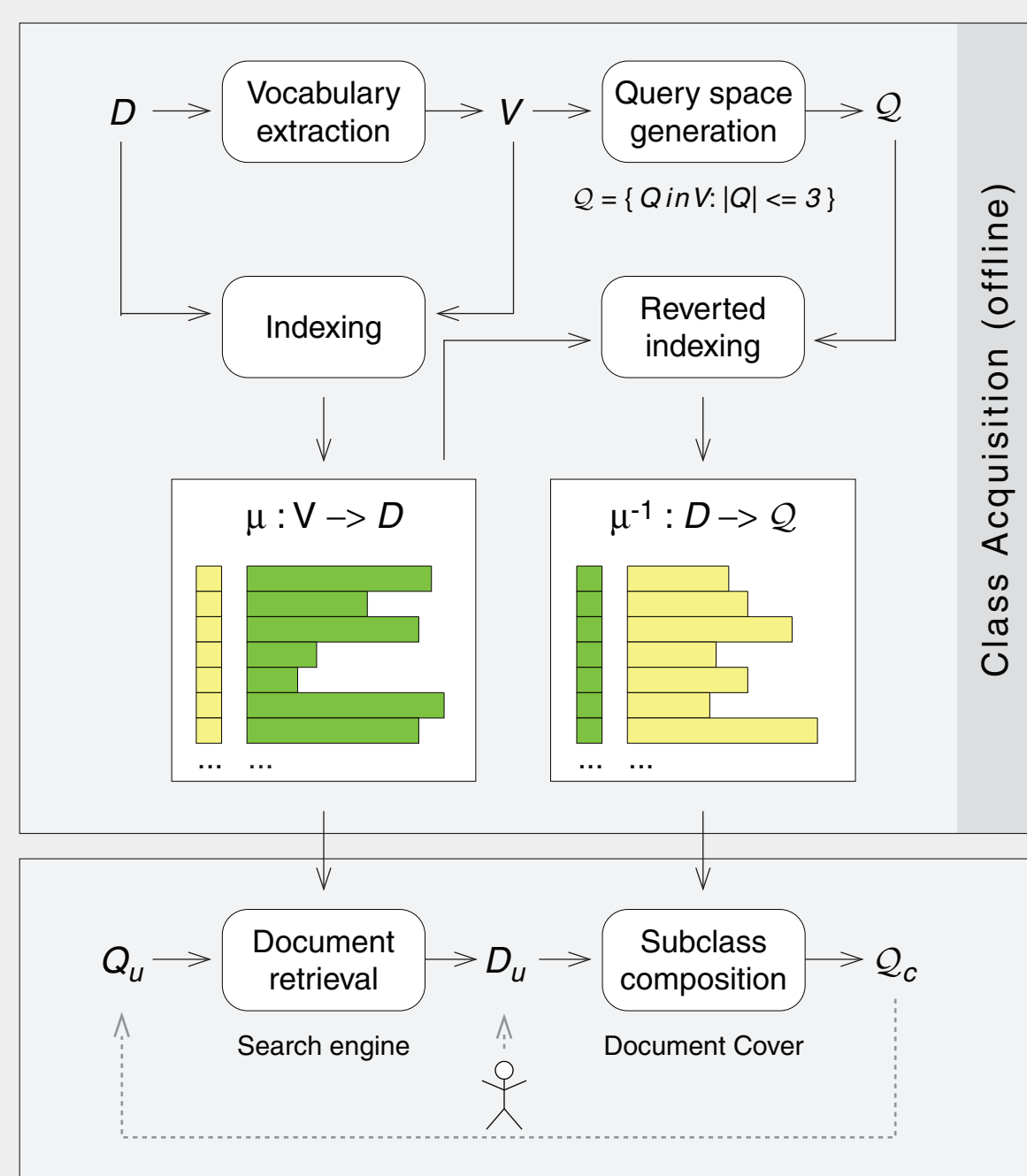
(3) Pseudo Descriptions for Meta-Data Retrieval (ICTIR 2018)



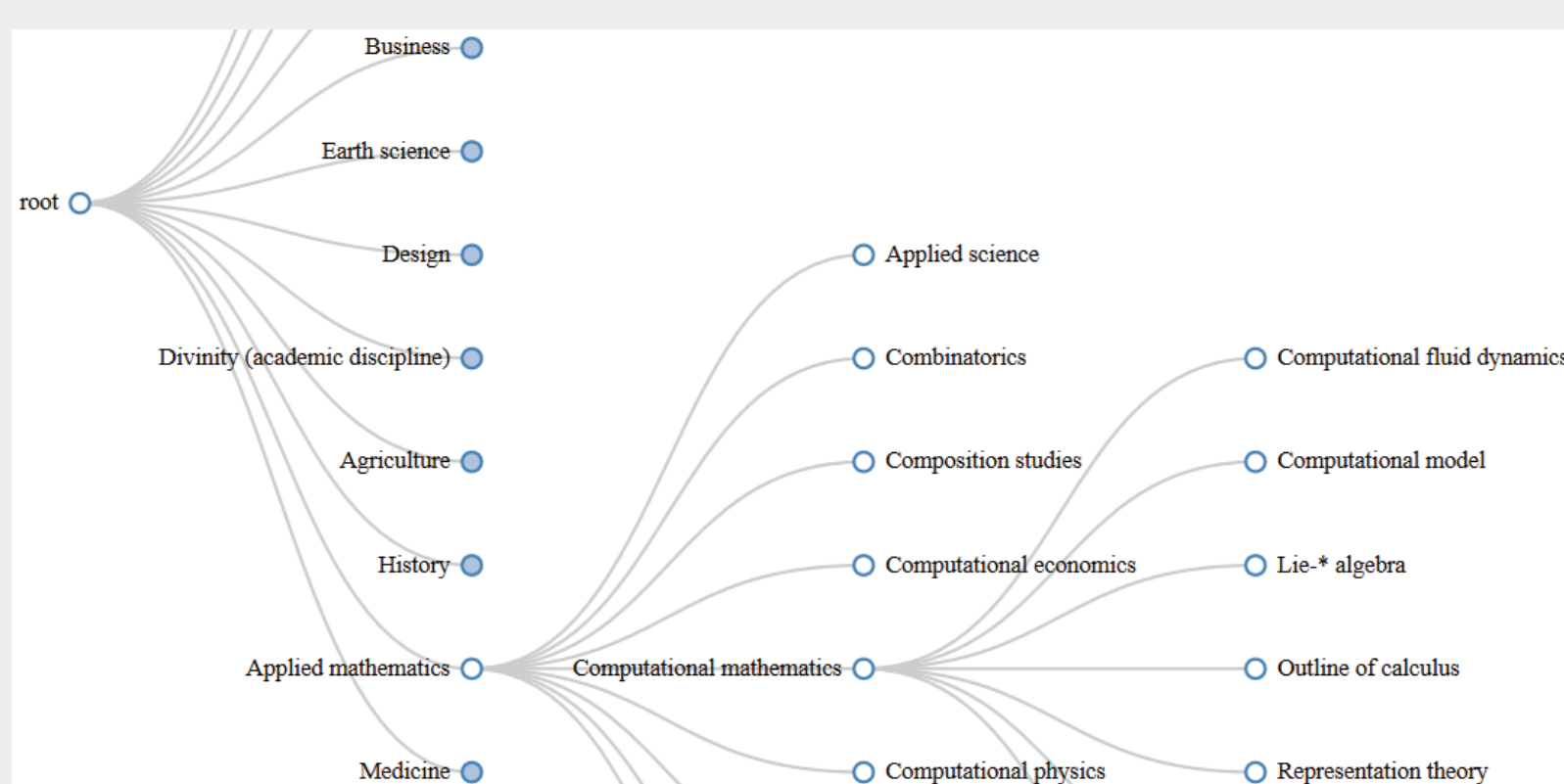
Augmentation of meta-data records with **search result snippets** obtained from a reference search engine to improve retrieval performance.



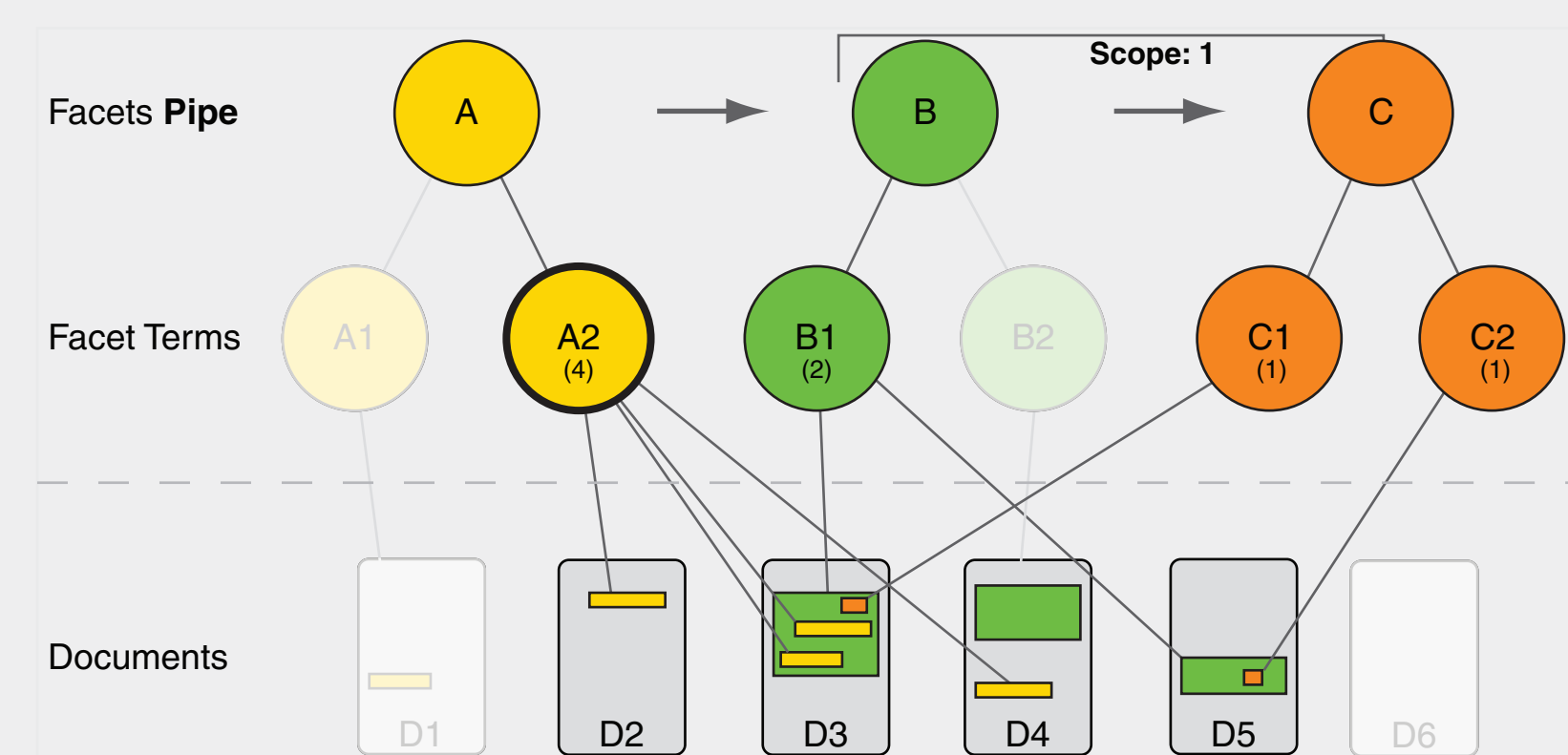
(2) Dynamic Taxonomy Composition via Keyqueries (JCDL 2014)



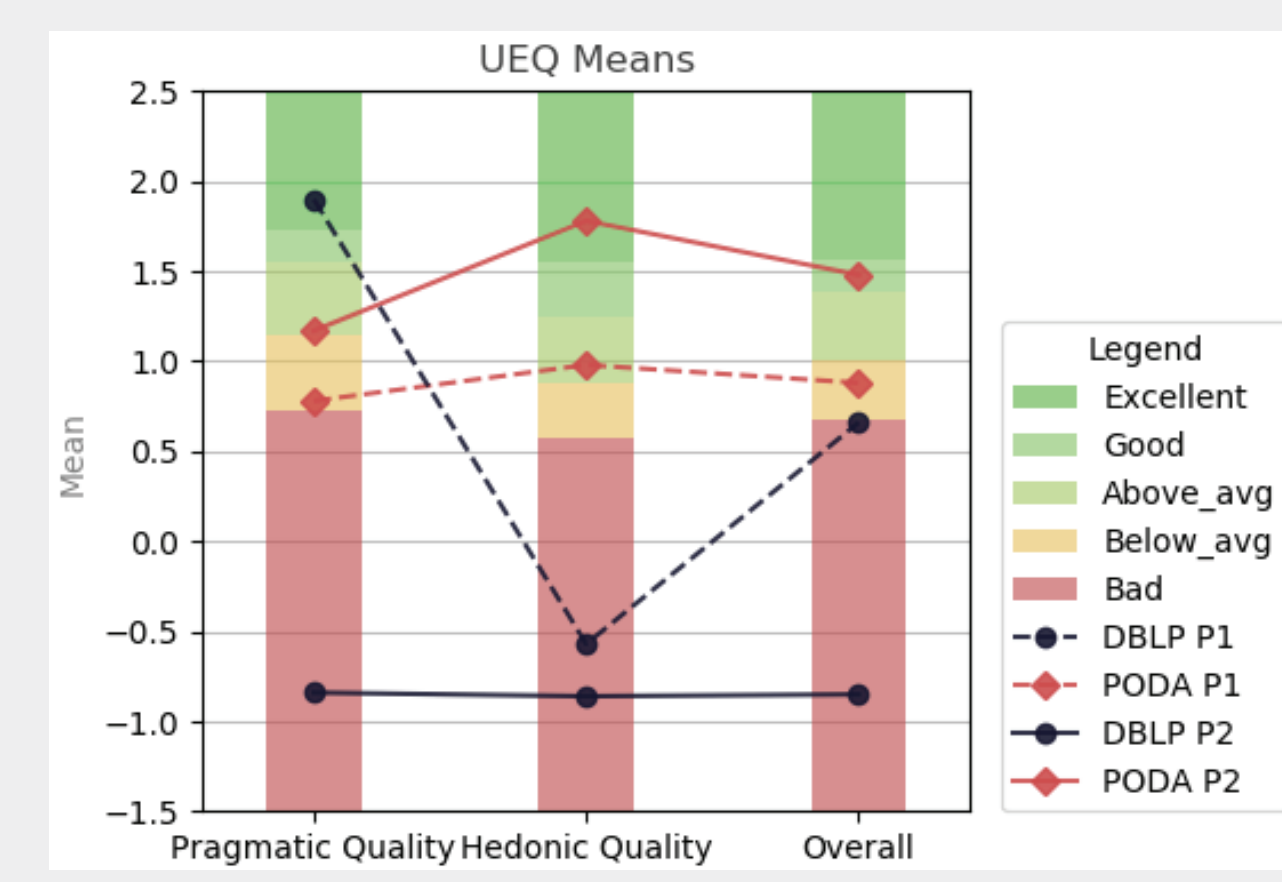
Iterative **clustering** of document collections into topic taxonomies **with** the use of **search queries**.



(4) Exploratory Search Pipes with Scoped Facets (ICTIR 2019)



Faceted search system designed for the exploration of **content-level** relationships in document collections.



(5) Philosophical Corpora. From Digital Texts to Tangible Sculptures (ZfDG to appear)

Demonstration of the aesthetic and epistemic potential of **explicit spatialization** and **data physicalization** in the digital humanities.

