



An Extended Systematic Mapping Study on Modeling Languages for Industry 4.0

The data collection

Overview

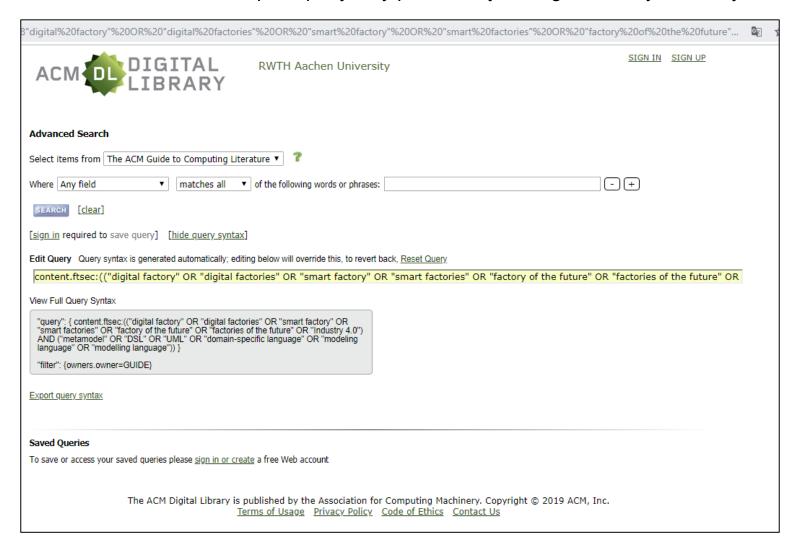
Slide 2

Total Papers

- Google Scholar: 971 + 606 papers = 1577
- IEEE Xplore: 151 + 104 papers = 255
- ACM DL: 104 + 34 papers = 138
- SpringerLink: 240 + 102 papers = 342
- Scopus 504 papers
- Web of Science 32 papers= 2848 papers
- Removed 561 duplicates = 2287 papers left
- Removed 1369 papers by criteria = 918 papers left
- Read and considered irrelevant 570 papers = 348 papers left
- Yields 348 relevant papers

ACM Digital Library: Restrictions and Query

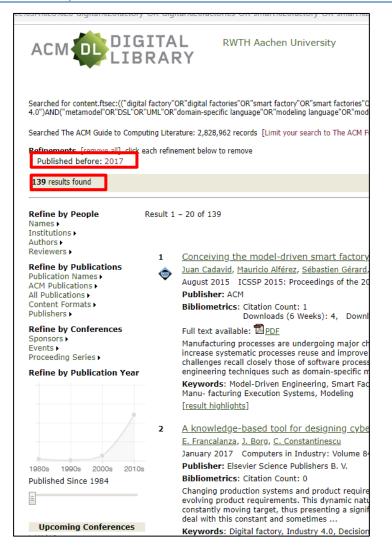
Full text search with complex query only possible by editing the Query manually

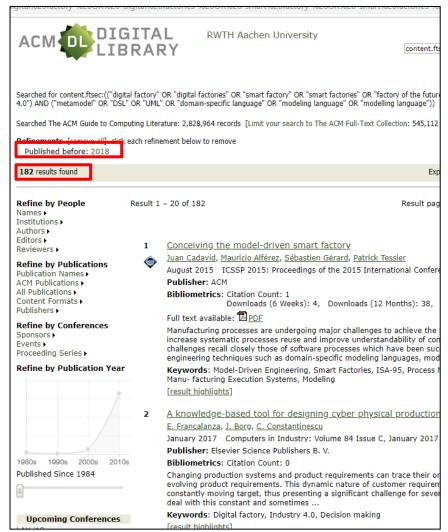


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Slide 4

ACM Digital Library: Results of 2017 and 2018

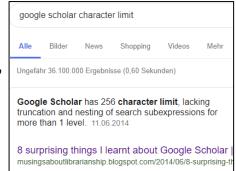


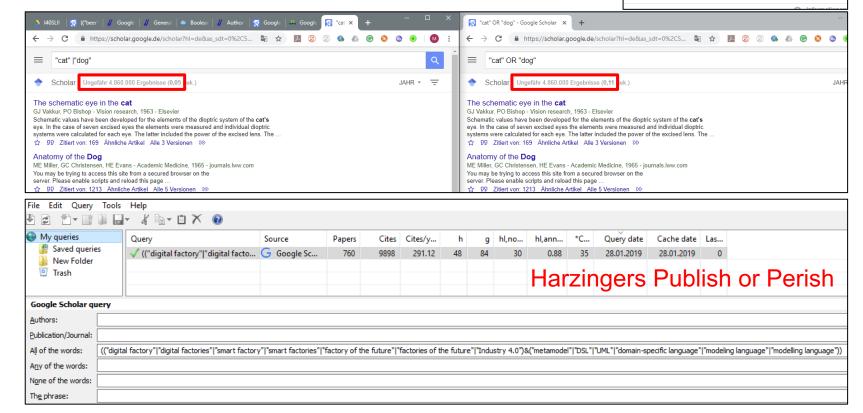


Please note that these and the following figures were created significantly after the submission and hence the illustrated numbers of results do not match exactly.

Google Scholar via Harzingers "Publish or Perish": Restrictions and Query

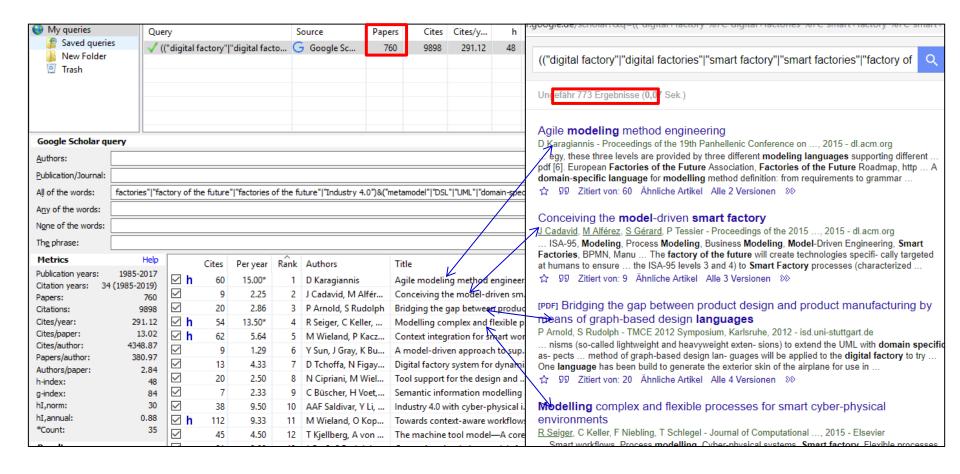
- 256 Character limit → Replace "AND " with "&" and "OR " with "|"
- (("digital factory"|"digital factories"|"smart factory"|"smart factories"|"factory of the future"|"factories of the future"|"Industry 4.0") & ("metamodel"|"DSL"|"UML"|"domain-specific language"|"modeling language"))





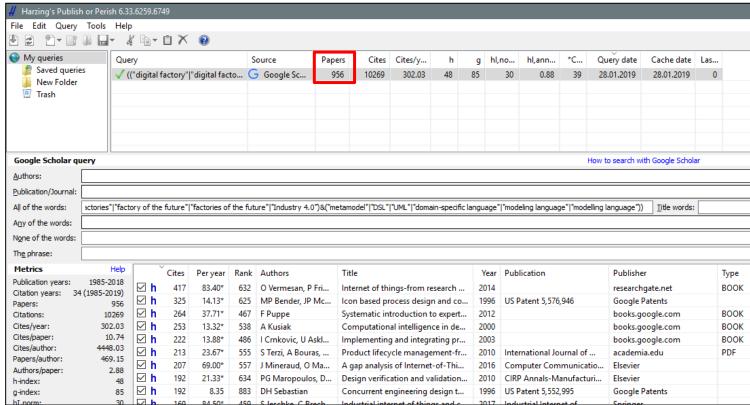
Scholar 2017

Slide 6



Scholar 2018

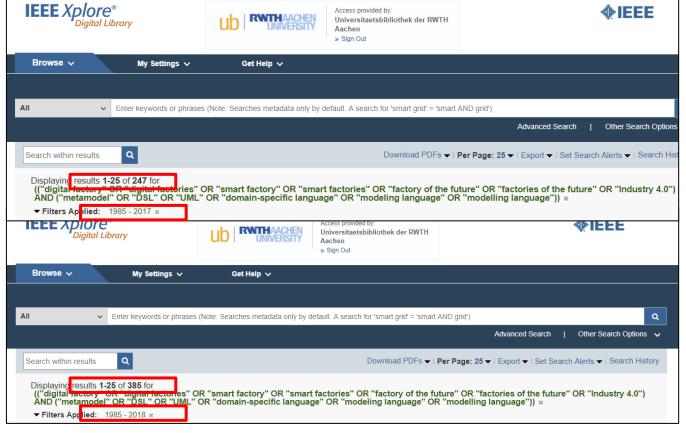




IEEE Xplore: Restrictions and Query

40 Search terms (no issue)

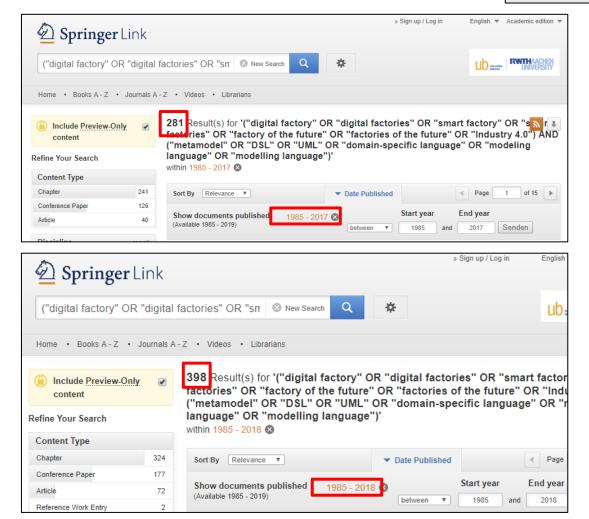




SpringerLink: Restrictions and Query

No restrictions: copied and pasted query into search field





Scopus: Restrictions and Query

No restrictions



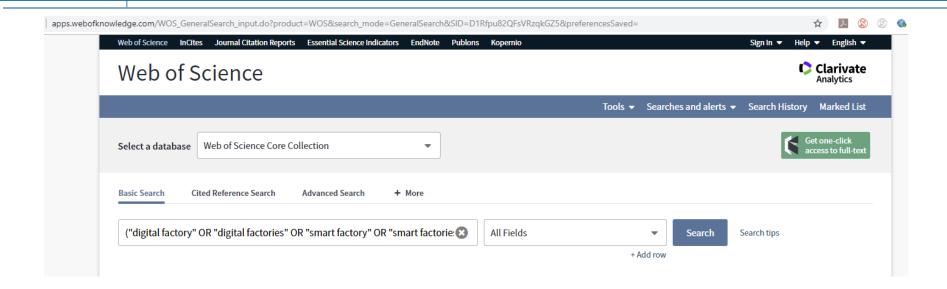
Scopus: Results of 2017 and 2018



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Web of Science



Web of Science



Web of Science



