



Identifying bibliographic families in records on scholarly monographs

Preliminary findings

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outline

context and theoretical framework

evaluative inquiry

Functional Requirements for Bibliographic Records (FRBR)

exploratory study

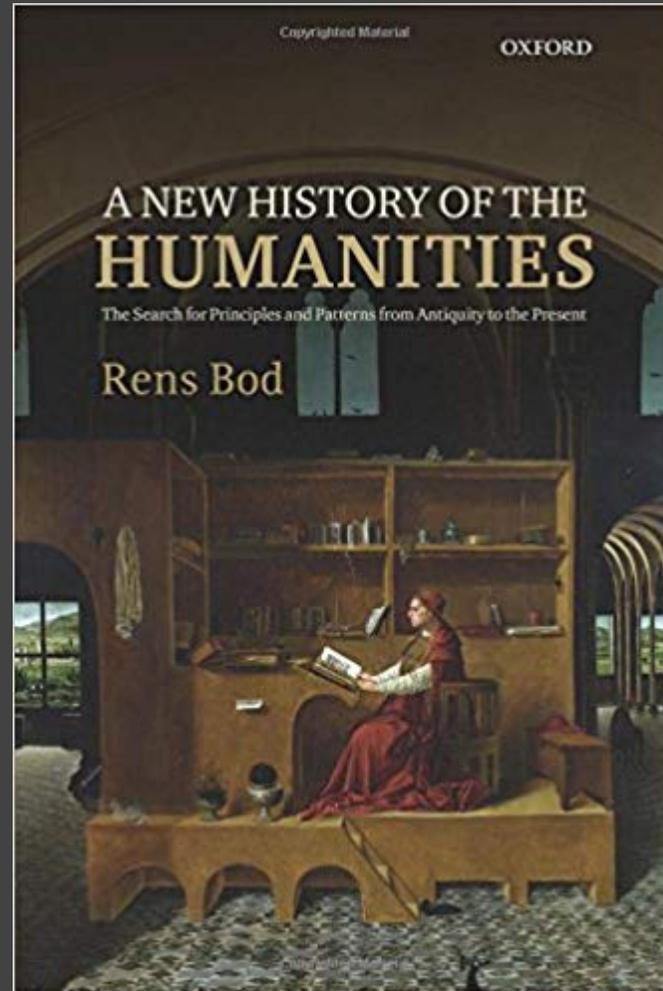


context and theoretical framework

evaluative inquiry

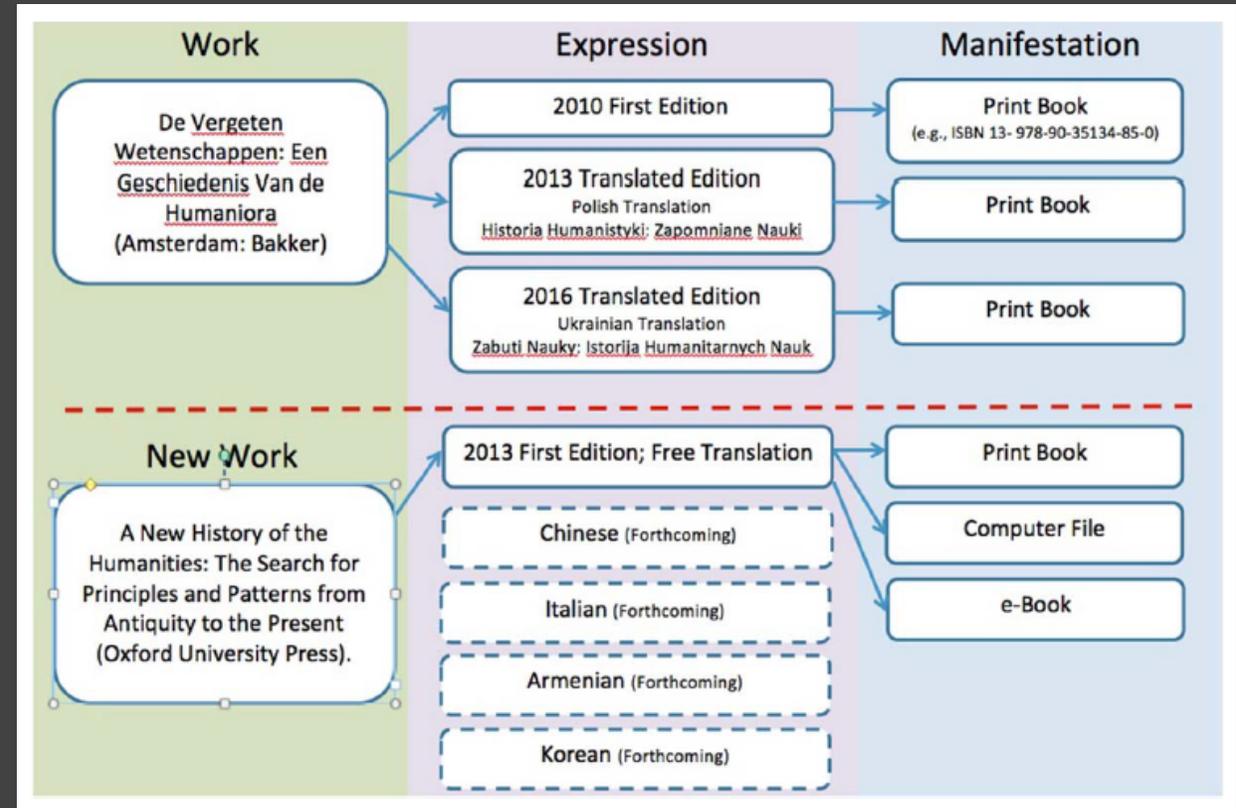
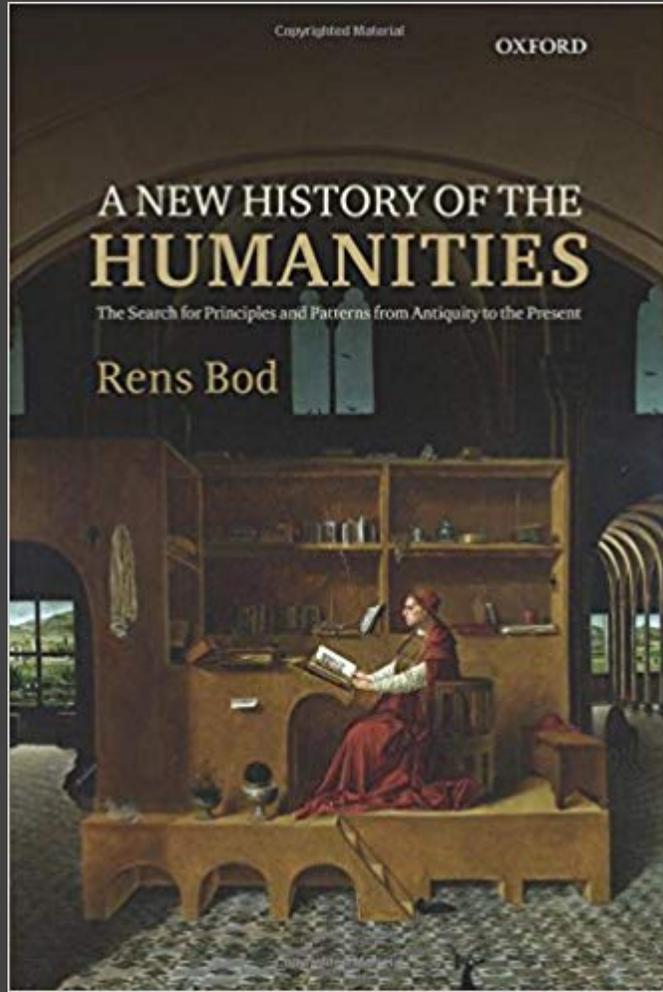
numerical, verbal, and/or visual representations of scholarship that are meant to
‘represent the complexity of actual practice and its engagements,
rather than to reduce for the sake of standardization’

(Fochler and de Rijcke, 2017, p. 34)



1 title

10 ISBNs



Source: Zuccala et al. (2018)

books as bibliographic families

(Zuccala et al. 2018, 151)

bibliographic families and
Functional Requirements for Bibliographic Records (FRBR)

work	a distinct intellectual or artistic creation
expression	the intellectual or artistic realization of a <i>work</i>
manifestation	the physical embodiment of an <i>expression</i> of a <i>work</i>
item	a single exemplar of a <i>manifestation</i>

(IFLA Study Group on the Functional Requirements for Bibliographic Records, 2009, p. 13)



exploratory study

Data sources

Four national bibliographic databases for research output

- COBISS (Slovenia)
- CRISTIN (Norway)
- CROSBİ (Croatia)
- VABB-SHW (Flanders, Belgium; VABB-1: only peer-reviewed, VABB-2: all others)

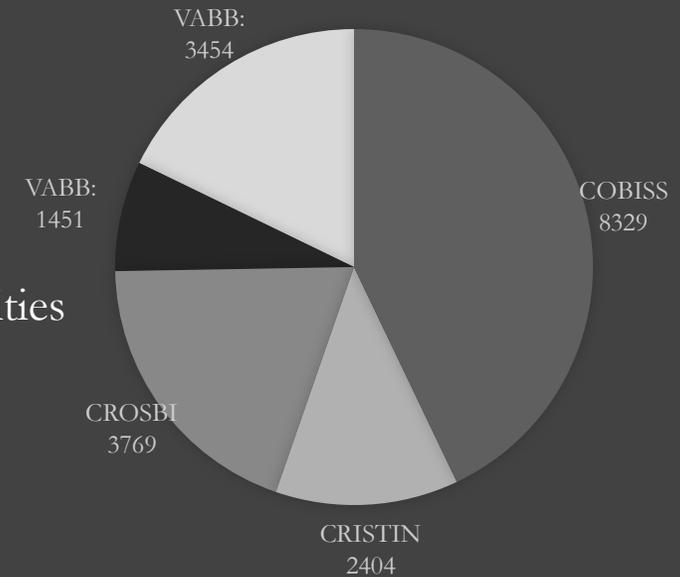
Additional sources for metadata enrichment:

- OCLC WorldCat
- GoodReads

Datasets

Timeframe: 2000-2017
Publication type: scholarly monograph
Authors: researchers
in the social sciences and humanities

19'329 records (19'350 ISBNs)



How to incorporate complexity of books in book metrics?

Approach step-by-step:

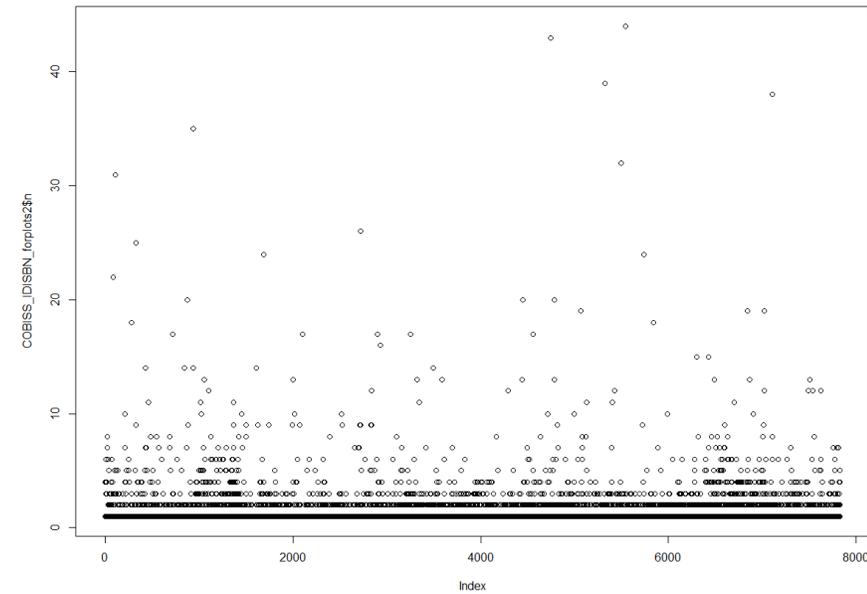
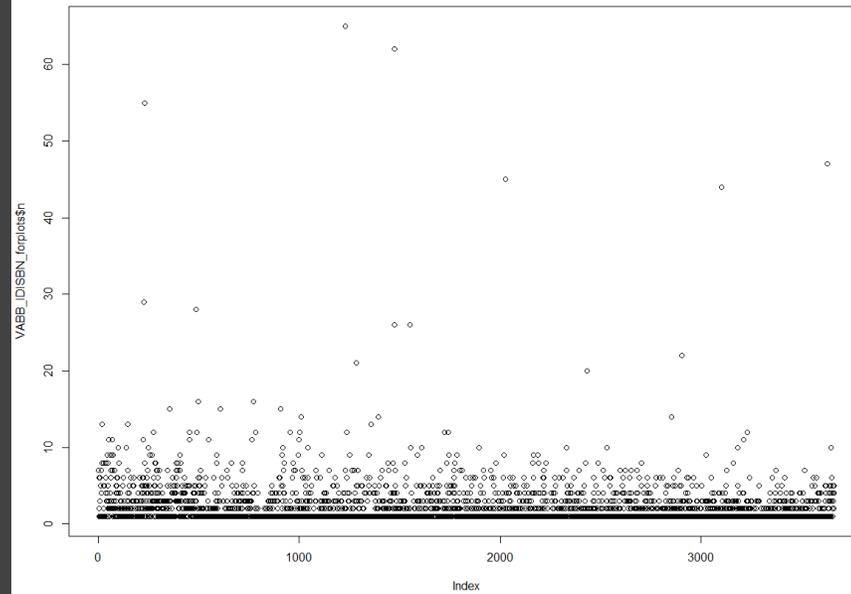
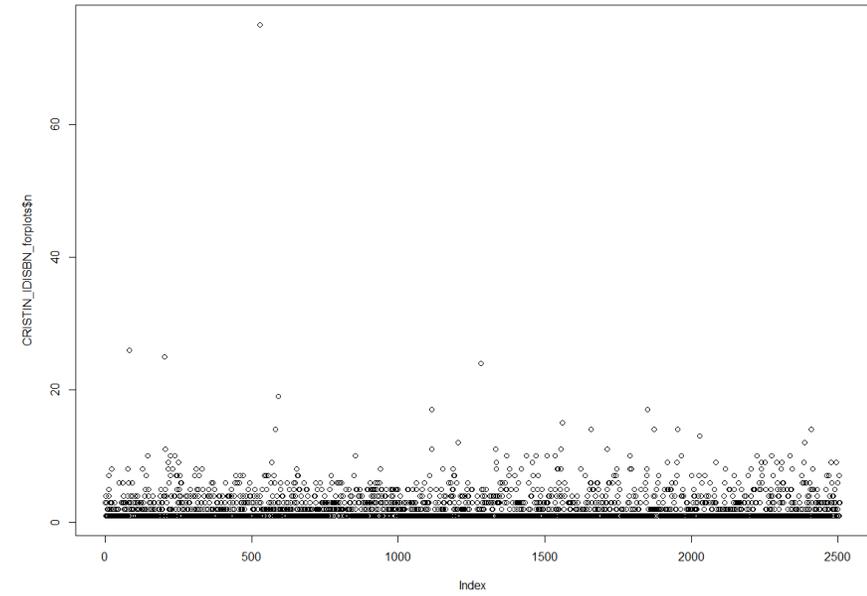
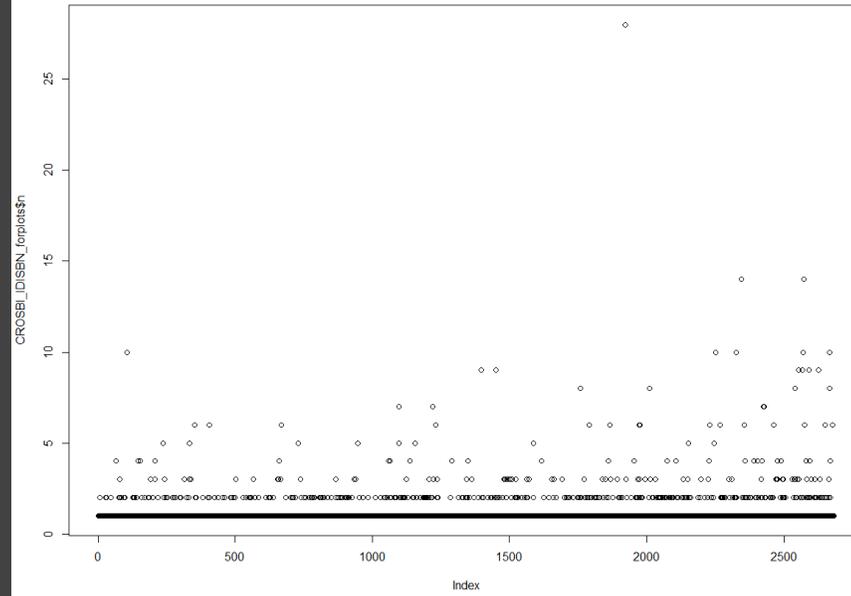
- Delineate a dataset consisting of scholarly monographs in the social sciences and humanities
- Generate a list of unique ISBNs (ISBN 13)
- Retrieve from OCLC WorldCat additional ISBNs
- Retrieve metadata for each ISBN from GoodReads
- Identify and describe bibliographic families

Results for OCLC WorldCat

	Unit	COBISS	CRISTIN	CROSBİ	VABB-1	VABB-2	Total***
Records identified in WorldCat	#	7835	2281	2713	1374	2310	16438
ISBNs identified in WorldCat	#	7766	2253	2646	1320	2131	16018
	%	89	95	72	91	66	83
Additional ISBNs in WorldCat	#	3940	2907	1738	2534	2313	13394
	%	33	56	40	66	52	46
ISBNs in total	#	11706	5160	4384	3854	4444	29412

83% of ISBNs identified in WorldCat
 46% of all identified ISBNs retrieved from WorldCat

Number of ISBNs
per record



Number of ISBNs per record: summary statistics

	Unit	COBISS	CRISTIN	CROSB	VABB-1	VABB-2	Total***
ISBNs in total	#	11706	5160	4384	3854	4444	29412
ISBNs per record	Mean	1,5	2,2	1,2	2,9	1,5	1,7
	Median	1	1	1	2	1	1
	Min	1	1	1	1	1	1
	Max	44	75	28	65	62	75
	75 th percentile	1	3	1	4	1	2
	95th percentile	4	6	2	7	3	4
	99 th percentile	9	9	5	12	8	9

Further exploration of dataset limited to records with 6 or more ISBNs (n=380)

Number of ISBNs identified in GoodReads

	Unit	COBISS	CRISTIN	CROSBI	VABB-1	VABB-2	Total***
ISBNs in total	#	11706	5160	4384	3854	4444	29412
ISBNs identified in GoodReads	#	2915	2697	441	3009	1412	10415
	%	25	52	10	78	32	35

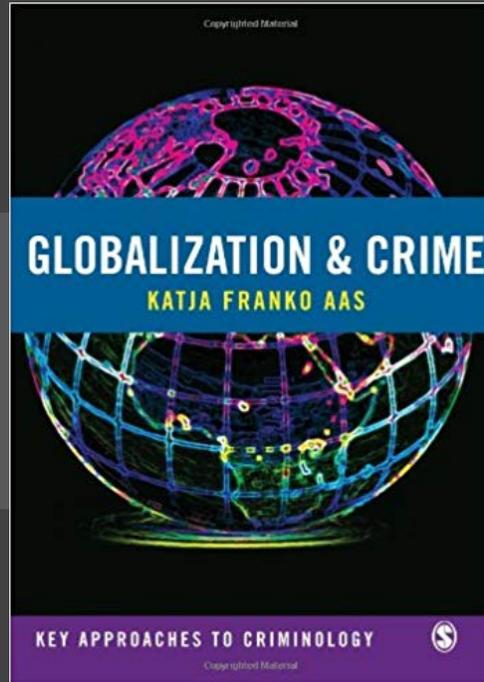
95% of records with 6 or more ISBNs (n=359) identified in GoodReads
 72% of records (n=273) have $\geq 90\%$ of ISBNs identified in GoodReads

Globalization and Crime
by Katja Franko

1

11 ISBNs

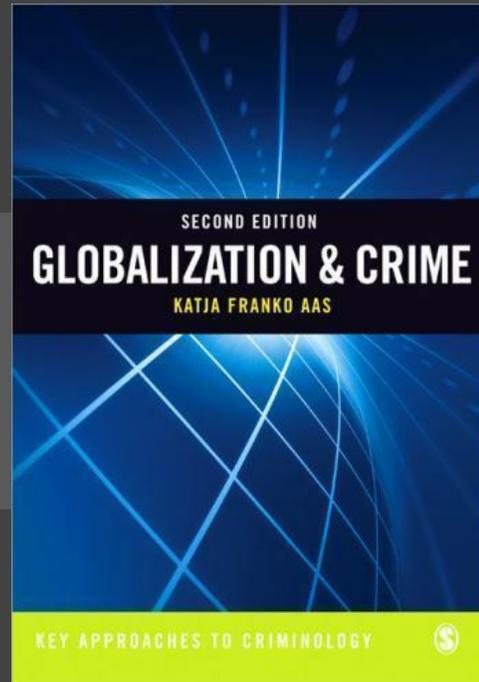
First edition



2007:
Hardcover
Paperback
Ebook

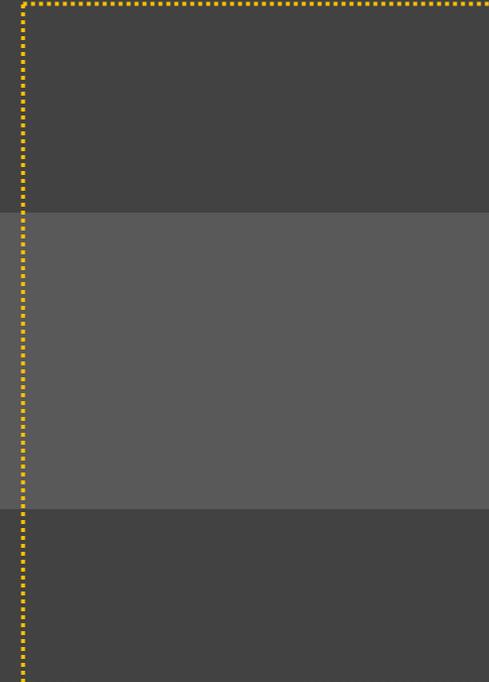
2010:
ebook

Second edition



2013:
Hardcover
Paperback
Ebook

Third edition



2020:
Hardcover
Paperback

Conclusions

Currently available metadata on scholarly monographs are not suitable for the use of ‘bibliographic families’

- FRBR framework typically is not used or not fully implemented
- Diversity of bibliographic control practices for scholarly monographs

Most titles published with 1 ISBN (!380 versus 19’329)

Potential other uses of the notion ‘bibliographic family’:

- Global visibility of local scholarly publishing (e.g. presence in WorldCat)
- Historical case studies on specific author, title, etc.

Thank you!

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References

Fochler, M. and de Rijcke, S. (2017), “Implicated in the Indicator Game? An Experimental Debate”, *Engaging Science, Technology, and Society*, Vol. 3, p. 21.

IFLA Study Group on the Functional Requirements for Bibliographic Records. (2009), *Functional Requirements for Bibliographic Records*, International Federation of Library Associations and Institutions, Munich, p. 142.

Zuccala, A., Breum, M., Bruun, K. and Wunsch, B.T. (2018), “Metric assessments of books as families of works”, *Journal of the Association for Information Science and Technology*, Vol. 69 No. 1, pp. 146–157.