Publication Report for scheduling Survey

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1 Introduction

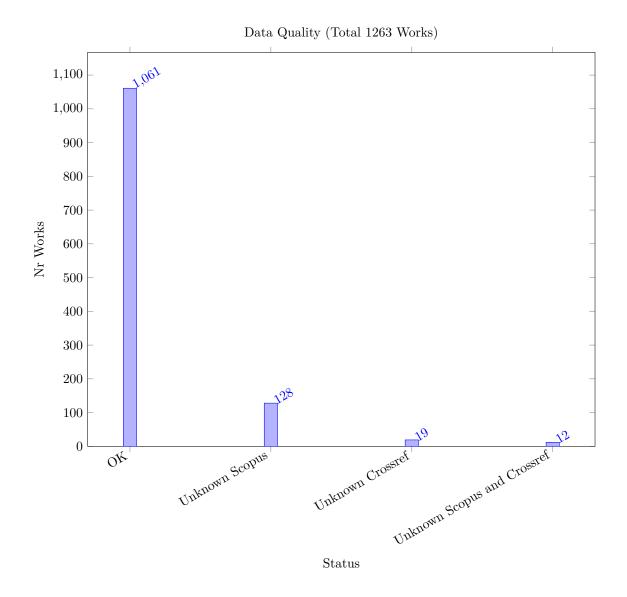
This report is a companion document to the main report generated for the extracted information used in the survey of CP and Scheduling. This document is concerned with some of the summary statistics, and with data quality issues that are highlighted for correction by the authors.

2 Data Quality

This section gives an overall overview of the works covered by the survey. We first look at all works, and consider which entries cannot be full analyzed. We consider the following status outcomes: no DOI, the bib entry does not give a DOI, this typically means that we cannot find the citation and reference counts for the work. A special case is the Thesis type, which typically do not have a DOI assigned by the university. Even entries with a DOI may not be covered, we distinguish entries that are covered by neither Crossref nor Scopus, or entries which are covered by one, but not the other. The OK status indicates that we can find the entry in all our sources.

Note that OpenCitations does not distinguish between a DOI that is not covered, and a DOI for which there are no references or citations. In both cases, an empty list is returned by the query.

We may be able to repair some of the entries by finding a DOI for entries which miss them, or by correcting a mistake in a DOI, where neither Crossref nor Scopus recognizes the entry. Note that the system responses are cached, and missing entries are not repeatedly queried by the system. This means that additions or corrections in the databases that occur after we first queried them for a specific entry are not automatically taken into account. It may be good practice to re-run all queries from time to time to reflect updates in the databases.



Section 2 DATA QUALITY 2

Table 1: Works Unknown to Crossref and Scopus

Key	DOI	Source Group	Year	Nr Citations	Crossref Citations	Scopus Citations	WoS Citations	Range Citations	Range Percentage
abs-2402-00459	10.48550/arxiv.2402.00459	Preprint	2024	0	0	0	null	0	NaN
abs-2305-19888	10.48550/arxiv.2305.19888	Preprint	2023	0	0	0	null	0	NaN
abs-2306-05747	10.48550/arxiv.2306.05747	Preprint	2023	0	0	0	null	0	NaN
abs-2312-13682	10.48550/arxiv.2312.13682	Preprint	2023	0	0	0	null	0	NaN
GokPTGO23	10.1007/s10479-022-04547-	ORJournal	2023	0	0	0	null	0	NaN
abs-2211-14492	10.48550/arxiv.2211.14492	Preprint	2022	0	0	0	null	0	NaN
OrnekOS20	10.1007/s12351-020-00563-	ORJournal	2022	0	0	0	null	0	NaN
OrnekO16	10.23055/ijietap.2016.23.1.1930	OtherJournal	2016	0	0	0	null	0	NaN
OddiRCS11	10.5591/978-1-57735-516-8/ijcai11-332	IJCAI	2011	0	0	0	null	0	NaN
AronssonBK09	10.4230/oasics.atmos.2009.2141	OtherConf	2009	0	0	0	null	0	NaN
KanetAG04	10.1201/9780203489802.ch47	Incoll	2004	0	0	0	null	0	NaN
BeckF98	10.1609/aimag.v19i4.1426	AlJournal	1998	0	0	0	null	0	$_{ m NaN}$

Table 2: Works Unknown to Crossref

Key	DOI	Source Group	Year	Nr Citations	Crossref Citations	Scopus Citations	WoS Citations	Range Citations	Range Percentage
JuvinHHL23	10.4230/lipics.cp.2023.19	CP	2023	0	0	0	null	0	NaN
PovedaAA23	10.4230/lipics.cp.2023.31	$^{\mathrm{CP}}$	2023	0	0	0	null	0	NaN
AalianPG23	10.4230/lipics.cp.2023.6	$^{\mathrm{CP}}$	2023	0	0	0	null	0	NaN
KameugneFND23	10.4230/lipics.cp.2023.20	$^{\mathrm{CP}}$	2023	0	0	0	null	0	NaN
BoudreaultSLQ22	10.4230/lipics.cp.2022.10	$^{\mathrm{CP}}$	2022	0	0	0	null	0	NaN
PopovicCGNC22	10.4230/lipics.cp.2022.34	$^{\mathrm{CP}}$	2022	0	0	0	null	0	NaN
WinterMMW22	10.4230/lipics.cp.2022.41	$^{\mathrm{CP}}$	2022	0	0	0	null	0	NaN
ArmstrongGOS21	10.4230/lipics.cp.2021.16	$^{\mathrm{CP}}$	2021	1	0	1	null	1	100.00
AntuoriHHEN21	10.4230/lipics.cp.2021.14	$^{\mathrm{CP}}$	2021	0	0	1	null	1	100.00
KovacsTKSG21	10.4230/lipics.cp.2021.36	$^{\mathrm{CP}}$	2021	0	0	4	null	4	100.00
LacknerMMWW21	10.4230/lipics.cp.2021.37	$^{\mathrm{CP}}$	2021	0	0	3	null	3	100.00
WangB20	10.3233/faia200114	ECAI	2020	0	0	0	null	0	NaN
BarzegaranZP20	10.4230/oasics.fog-iot.2020.3	OtherConf	2020	0	0	0	null	0	NaN
BridiLBBM16	10.3233/978-1-61499-672-9-1598	ECAI	2016	0	0	0	null	0	NaN
BartakV15	10.5220/0005215701190130	OtherConf	2015	0	0	1	null	1	100.00
TranB12	10.3233/978-1-61499-098-7-774	ECAI	2012	0	0	30	null	30	100.00
PacinoH11	10.5591/978-1-57735-516-8/ijcai11-333	IJCAI	2011	0	0	0	null	0	NaN
OddiRC10	10.3233/978-1-60750-606-5-967	ECAI	2010	0	0	2	null	2	100.00
Hunsberger08	10.3233/978-1-58603-891-5-553	ECAI	2008	0	0	1	null	1	100.00

Table 3: Works Unknown to Scopus

Key	DOI	Source Group	Year	Nr Citations	Crossref Citations	Scopus Citations	WoS Citations	Range Citations	Range Percentage
Euler2024	10.1007/978-3-031-60597-017	CPAIOR	2024	0	0	0	null	0	NaN
Barral2024	10.1007/978-3-031-60597-0_3	CPAIOR	2024	0	0	0	null	0	NaN
Thomas2024	$10.1007/978 - 3 - 031 - 60599 - 4_13$	CPAIOR	2024	0	0	0	null	0	NaN

Kev	DOI	Source Group	Year	Nr Citations	Crossref Citations	Scopus Citations	WoS Citations	Range Citations	Range Percentage
Houten2024	10.1007/978-3-031-60599-4 15	CPAIOR	2024	0	0	0	null	0	NaN
Infantes2024	10.1007/978-3-031-00393-413	CPAIOR	2024	0	0	0	null	0	NaN
Caballero23	10.1007/978-3-031-00397-021 10.1007/s10601-023-09357-0	Constraints	2024	0	0	0	null	0	NaN
NaderiBZ23	10.2139/ssrn.4494381	Preprint	2023	0	0	0	null	0	NaN
GunerGSKD23	10.1080/00207543.2023.2226772	Other Journal	2023	0	3	0	null	3	100.00
IklassovMR023	10.1080/00207545.2025.2220772 10.24963/ijcai.2023/594	IJCAI	2023	0		0		0	NaN
Lyons2023	10.3390/analytics2030036	OtherJournal	2023	0	0	0	null null	0	NaN
Blev2023	10.1007/978-3-031-24907-5 68	OtherConf	2023	0	0	0	null	0	NaN
	, =			0	0	0		0	
Akan2023	10.33714/masteb.1324266	OtherJournal	2023	-	0	0	null	-	NaN
Abreu2023	10.1007/978-3-031-36121-0_9	OtherConf	2023	0	0	0	null	0	NaN
HebrardALLCMR22	10.24963/ijcai.2022/643	IJCAI	2022	0	0	0	null	0	NaN
NaderiBZ22	10.2139/ssrn.4140716	Preprint	2022	0	0	0	null	0	NaN
JuvinHL22	10.2139/ssrn.4068164	Preprint	2022	0	0	0	null	0	NaN
NaderiR22	10.1287/ijoo.2021.0056	ORJournal	2022	6	7	0	null	7	100.00
KotaryFH22	10.1609/aaai.v36i7.20685	AAAI	2022	1	2	0	null	2	100.00
Ouellet2022	10.1609/aaai.v36i4.20296	AAAI	2022	1	0	0	null	1	100.00
QinWSLS21	10.1109/tase.2019.2947398	OtherJournal	2021	16	19	0	null	19	100.00
GeibingerMM21	10.1609/aaai.v35i7.16789	AAAI	2021	1	1	0	null	1	100.00
KletzanderMH21	10.1609/aaai.v35i13.17408	AAAI	2021	2	2	0	null	2	100.00
Pinarbasi21	10.1080/0305215x. 2021.1921171	OtherJournal	2021	5	6	0	null	6	100.00
Strak2021	10.5937/tehnika2102239s	OtherJournal	2021	0	0	0	null	0	NaN
Eiter2021	$10.24963/\mathrm{kr}.2021/27$	OtherConf	2021	6	7	0	null	7	100.00
Rodler2021	$10.24963/\mathrm{kr}.2021/72$	OtherConf	2021	1	1	0	null	1	100.00
GodetLHS20	10.1609/aaai.v34i02.5510	AAAI	2020	1	1	0	null	1	100.00
FallahiAC20	10.1504/ijams.2020.10026882	OtherJournal	2020	0	0	0	null	0	NaN
KletzanderM20	10.1609/icaps.v30i1.6688	ICAPS	2020	2	2	0	null	2	100.00
AbidinK20	10.1016/j.cor.2020.105069	ORJournal	2020	11	14	0	null	14	100.00
Danzinger2020	10.1609/icaps.v30i1.6681	ICAPS	2020	2	2	0	null	2	100.00
NishikawaSTT19	10.15803/ijnc.9.2 131	OtherJournal	2019	3	3	0	null	3	100.00
BlazewiczEP19	10.1007/978-3-319-99849-7	Incoll	2019	41	38	0	null	41	100.00
SenderovichBB19	10.1609/icaps.v29i1.3504	ICAPS	2019	2	2	Õ	null	2	100.00
PinarbasiAY19	10.1108/aa-12-2018-0262	OtherJournal	2019	16	18	Õ	null	18	100.00
AlakaPY19	10.1007/s00500-019-04294-8	OtherJournal	2019	16	0	0	null	16	100.00
PachecoPR19	10.24963/ijcai.2019/161	IJCAI	2019	1	1	0	null	1	100.00
BhatnagarKL19	10.24963/ijcai.2019/803	IJCAI	2019	1	1	0	null	1	100.00
RiahiNS018	10.1609/icaps.v28i1.13895	ICAPS	2018	4	4	0	null	4	100.00
AgussurjaKL18	10.1609/icaps.v2611.13693 10.1609/aaai.v32i1.12086	AAAI	2018	4	4	0	null	4	100.00
TranVNB17a	10.1009/aaa1.v3211.12000 10.24963/ijcai.2017/726	IJCAI	$\frac{2018}{2017}$	1	1	0	null	1	100.00
Laborie2017	10.1609/icaps.v27i1.13844	ICAPS	2017	2	2	0	null	2	100.00
				10	12	0			
Gonzlez2017	10.1609/icaps.v27i1.13809	ICAPS	2017			0	null	12	100.00
Bonfietti16	10.3233/ia-160095	AlJournal	2016	0	0 9	0	null	0	NaN
TranDRFWOVB16	10.1609/socs.v7i1.18390	OtherConf	2016	7	-		null	9	100.00
FrankDT16	10.1609/icaps.v26i1.13780	ICAPS	2016	4	5	0	null	5	100.00
KinsellaS0OS16	10.1609/aaai.v30i2.19079	AAAI	2016	1	2	0	null	2	100.00
Abdul-Niby2016	10.48084/etasr.627	OtherJournal	2016	4	4	0	null	4	100.00
Siala15	10.1007/s10601-015-9213-y	Constraints	2015	4	3	0	null	4	100.00
Kameugne15	10.1007/s10601-015-9227-5	Constraints	2015	0	0	0	null	0	NaN
LimBTBB15a	10.1609/aaai.v29i1.9236	AAAI	2015	3	3	0	null	3	100.00
Oliveira2015	10.14807/ijmp.v6i1.262	OtherJournal	2015	2	1	0	null	2	100.00
Bzdyra2015	10.4028/www.scientific.net/amm.791.70	OtherJournal	2015	5	5	0	null	5	100.00
FriedrichFMRSST14	10.1007/978-3-319-28697-6_23	OtherConf	2014	3	3	0	null	3	100.00
LipovetzkyBPS14	10.1609/icaps.v24i1.13666	ICAPS	2014	5	5	0	null	5	100.00
LudwigKRBMS14	10.1609/aaai.v28i2.19030	AAAI	2014	1	1	0	null	1	100.00

Section 2 DATA QUALITY 4

Key	DOI	Source Group	Year	Nr Citations	Crossref Citations	Scopus Citations	WoS Citations	Range Citations	Range Percentage
ChunS14	10.1609/aaai.v28i2.19013	AAAI	2014	3	3	0	null	3	100.00
Silva2014	10.1590/2238-1031.jtl.v8n4a9	OtherJournal	2014	2	2	0	null	2	100.00
Levine2014	10.1609/icaps.v24i1.13672	ICAPS	2014	18	20	ő	null	20	100.00
Lozano2014	10.1145/2666357.2597815	OtherJournal	2014	3	2	ő	null	3	100.00
Banaszak2014	10.1515/fman-2015-0014	OtherJournal	2014	8	8	0	null	8	100.00
BonfiettiLM13	10.1609/icaps.v23i1.13608	ICAPS	2013	1	í	0	null	1	100.00
LombardiM13	10.1609/icaps.v23i1.13580	ICAPS	2013	3	0	0	null	3	100.00
TranTDB13	10.1609/icaps.v23i1.13552	ICAPS	2013	2	2	0	null	2	100.00
MalapertCGJLR13	10.1609/icaps.v23i1.13575	ICAPS	2013	0	0	0	null	0	NaN
Zoulfaghari2013	10.4018/jaec.2013040103	OtherJournal	2013	5	5	0	null	5	100.00
Guimarans2013	10.4018/978-1-4666-2461-0.ch007	Inbook	2013	1	1	0	null	1	100.00
Janosikova2013	10.26552/com.c.2013.1.39-43	OtherJournal	2013	0	0	0	null	0	NaN
Kelareva2012	10.1609/icaps.v22i1.13494	ICAPS	2012	11	14	0	null	14	100.00
BajestaniB11	10.1609/icaps.v21i1.13450	ICAPS	2011	2	2	0	null	2	100.00
Milano11	10.1002/9780470400531.eorms0473	Inbook	2011	0	0	0	null	0	NaN
Lizarralde2011	10.3917/proj.007.0089	OtherJournal	2011	1	1	0	null	1	100.00
Laborie2011	10.1007/978-3-642-23592-4_6	Inbook	2011	2	2	0	null	2	100.00
Baptiste09	10.1007/978-3-642-04244-7_1	CP	2009	0	0	0	null	0	NaN
MonetteDH09	10.1609/icaps.v19i1.13356	ICAPS	2009	9	10	0	null	10	100.00
Lorterapong2009	10.4203/ccp.74.8	OtherConf	2009	2	2	0	null	2	100.00
MercierH08	10.1287/ijoc.1070.0226	InformsJC	2008	32	33	0	null	33	100.00
AggounMV08	10.1007/978-0-387-74759-0_396	Inbook	2008	0	0	0	null	0	NaN
Terashima-Marn2008a	10.1007/978-3-540-88636-5_39	OtherConf	2008	5	5	0	null	5	100.00
Banaszak2008	10.7494/dmms.2008.2.2.5	OtherJournal	2008	4	4	0	null	4	100.00
Limtanyakul07	10.1007/978-3-540-77903-265	OtherConf	2007	2	2	0	null	2	100.00
2007	10.1007/978-3-540-32220-713	Inbook	2007	0	0	0	null	0	NaN
NeronABCDD06	10.1007/978-0-387-33768-57	Inbook	2006	3	3	0	null	3	100.00
RussellU06	10.1016/j.cor.2004.09.029	ORJournal	2006	22	22	0	null	22	100.00
Trilling2006	10.3182/20060517-3-fr-2903.00340	OtherJournal	2006	25	25	0	null	25	100.00
OddiPCC05	10.1007/0-387-27744-77	OtherConf	2005	3	3	0	null	3	100.00
Bartak2005	10.4018/978-1-59140-450-7.ch010	Inbook	2005	3	3	0	null	3	100.00
Vazacopoulos2005	10.1007/0-387-26281-4_12	Inbook	2005	3	3	0	null	3	100.00
Zhang2005	10.1109/icmlc.2004.1380769	OtherConf	2005	1	0	0	null	1	100.00
DannaP04	10.1007/978-1-4419-8917-8_2	Inbook	2004	2	2	0	null	2	100.00
AjiliW04	10.1007/978-1-4419-8917-8_6	Inbook	2004	4	4	0	null	4	100.00
AggounV04	10.1007/978-3-540-24734-015	Inbook	2004	7	7	0	null	7	100.00
HenzMT04	10.1016/s0377-2217(03)00101-2	EJOR OtherJournal	2004	44 1	47 0	0	null	$\frac{47}{1}$	100.00
Tsang03 DomdorfPH03	10.1023/a:1024016929283	Inbook	$\frac{2003}{2003}$	0	0	0	null null	0	100.00 NaN
	10.1007/978-3-642-18965-4_31 10.1017/cbo9780511615320		2003	385	374	0		385	
Apt03	/	Background		აგე 3	374	0	null	385 3	100.00 100.00
Sadykov2003 Timpe2003	10.2139/ssrn.988640 10.1007/978-3-662-05607-3 5	Preprint Inbook	$\frac{2003}{2003}$	2	2	0	null null	2	100.00
ElkhyariGJ02	10.1007/978-3-002-03007-3_3 10.1007/3-540-46135-3 49	CP	2003	1	1	0	null	1	100.00
ZhuS02	10.1007/3-540-47961-9 69	OtherConf	2002	0	0	0	null	0	NaN
MilanoORT02	10.1287/ijoc.14.4.387.2830	InformsJC	2002	0	14	0	null	14	100.00
Hooker02	10.1287/1joc.14.4.295.2828	InformsJC	2002	95	93	0	null	95	100.00
Hentenryck02	10.1287/ijoc.14.4.293.2626 10.1287/ijoc.14.4.345.2826	Background	2002	49	50	0	null	50	100.00
EastonNT02	10.1287/100.14.4.343.2620	OtherConf	2002	48	50 50	0	null	50 50	100.00
Varnier2002	10.1109/icsmc.1996.561432	OtherConf	2002	0	0	0	null	0	NaN
Richard2002	10.1109/tcshic.1990.301432 10.1109/etfa.1995.496763	OtherConf	2002	4	4	0	null	4	100.00
Petith2002	10.1109/etfa.1995.496057	OtherConf	2002	0	0	0	null	0	NaN
BaptistePN01	10.1109/661a.1995.490057	Book	2002	297	302	0	null	302	100.00
BosiM2001	10.1007/978-1-4015-1479-4 10.1002/1097-024x(200101)31:1<17::aid-spe355>3.0.co;2-l	Other Journal	2001	3	302	0	null	302	100.00
D0011112001	10.1002/1001-024A(200101/01.1<11aid-5pc000/0.0.co,2=1	Cuicigouillai	2001	3	3	0	11411	3	100.00

Section 2 DATA QUALITY 5

2.1 Range of Citation Counts

10.1287/mnsc.16.1.93

PritskerWW69

We get citation counts for the works included in the survey from different sources. OpenCitations provides the set of papers citing a reference, but only if both have DOIs. Crossref gives a count of how many papers cite a reference, they include some papers without DOI. Scopus gives a citation count, but does not give access to the actual citations. In this table we show the works with the largest range of citation count, excluding all background works. A typical issue is that one source does not cover the work, and has a zero count. An alternative is where papers with many citations give a slightly different count depending on which links are included in their database.

Background

1969

513

518

0

null

518

100.00

The results seem to indicate the using multiple sources is required, to avoid leaving out works that are not covered by one specific source. Note that the WoS numbers are only present for a few works, we show them, but do not include them in computing range.

NrCrossref Scopus WoS Range Range Key DOI Source Group Year Citations Citations Citations Citations Citations Percentage Demeulemeester1992 10.1287/mnsc.38.12.1803 **ORJournal** 1992 384 387 100.00 387 0 null BaptistePN01 10.1007/978-1-4615-1479-4 Book 2001 297 302 0 null 302 100.00 Hooker00 10.1002/9781118033036 Book 2000 186 186 0 null 186 100.00 BensanaLV99 10.1023/a:1026488509554 Constraints 1999 100 150 null 150 100.00 JainM99 10.1016/s0377-2217(98)00113-1 **EJOR** 1999 495 503 630 null 135 21.43 Elmaghraby1992 **ORJournal** 10.1287/mnsc.38.9.1245 1992 119 121 0 null 121 100.00

Table 4: Works with largest Range of Citation Counts

Generated: July 31, 2024

Key	DOI	Source Group	Year	Nr Citations	Crossref Citations	Scopus Citations	WoS Citations	Range Citations	Range Percentage
		*							
SakkoutW00	10.1023/a:1009856210543	Constraints	2000	73	0	105	null	105	100.00
Icmeli1993	10.1108/01443579310046454	OtherJournal	1993	98	99	0	null	99	100.00
Hooker02	10.1287/ijoc.14.4.295.2828	InformsJC	2002	95	93	0	null	95	100.00
Smith-Miles2009	10.1145/1456650.1456656	OtherJournal	2009	302	307	395	null	93	23.54
MintonJPL92	10.1016/0004-3702(92)90007-k	AlJournal	1992	437	440	525	null	88	16.76
BaptistePN99	10.1023/a:1018995000688	ORJournal	1999	73	0	85	null	85	100.00
Younes2003	10.1613/jair.1136	OtherJournal	2003	54	55	128	null	74	57.81
OhrimenkoSC09	10.1007/s10601-008-9064-x	Constraints	2009	128	128	198	null	70	35.35
Henz01	10.1287/opre.49.1.163.11193	ORJournal	2001	65	68	0	null	68	100.00
RodosekWH99	10.1023/a:1018904229454	ORJournal	1999	54	0	67	null	67	100.00
Schiex1994	10.1142/s0218213094000108	OtherJournal	1994	65	66	0	null	66	100.00
ArtiguesDN08	10.1002/9780470611227	Book	2008	64	60	0	null	64	100.00
BlazewiczDP96	10.1016/0377-2217(95)00362-2	EJOR	1996	348	357	412	null	64	15.53
BaptisteP00	10.1023/a:1009822502231	Constraints	2000	46	0	62	null	62	100.00
BeldiceanuC94	10.1016/0895-7177(94)90127-9	OtherJournal	1994	168	169	223	null	55	24.66
Wallace96	10.1007/bf00143881	Constraints	1996	88	89	138	null	50	36.23
NuijtenP98	10.1023/a:1009687210594	OtherJournal	1998	42	0	50	null	50	100.00
EastonNT02	10.1007/978-3-540-45157-0 6	OtherConf	2002	48	50	0	null	50	100.00
Fisher1985	10.1287/inte.15.2.10	OtherJournal	1985	468	473	517	null	49	9.48
Yang2000	10.1109/72.839016	OtherJournal	2000	37	0	48	null	48	100.00
Laborie03	10.1016/s0004-3702(02)00362-4	AlJournal	2003	128	129	175	null	47	26.86
HenzMT04	10.1016/s0377-2217(03)00101-2	EJOR	2004	44	47	0	null	47	100.00
HookerO03	10.1007/s10107-003-0375-9	OtherJournal	2003	325	333	371	null	46	12.40
BeckR03	10.1023/a:1021849405707	ORJournal	2003	30	0	45	null	45	100.00
AchterbergBKW08	10.1007/978-3-540-68155-7 4	CPAIOR	2008	80	80	125	null	45	36.00
LaborieRSV18	10.1007/s10601-018-9281-x	Constraints	2018	159	178	203	null	44	21.67
BlazewiczEP19	10.1007/978-3-319-99849-7	Incoll	2019	41	38	0	null	41	100.00
Michel2012	10.1007/978-3-642-29828-8 15	CPAIOR	2012	47	48	87	null	40	45.98
Laborie09	10.1007/978-3-642-01929-6 12	CPAIOR	2009	53	52	91	null	39	42.86
Zhu2006	10.1287/ijoc.1040.0121	InformsJC	2006	79	85	118	null	39	33.05
Gent1996	10.1007/3-540-61551-2 74	CP	1996	54	56	93	null	39	41.94
MengZRZL20	10.1016/j.cie.2020.106347	OtherJournal	2020	115	133	152	null	37	24.34
JainG01	10.1287/ijoc.13.4.258.9733	InformsJC	2001	284	284	321	null	37	11.53
KendallKRU10	10.1016/j.cor.2009.05.013	ORJournal	2010	183	186	220	161	37	16.82
SadehF96	10.1016/0004-3702(95)00098-4	AlJournal	1996	95	97	131	null	36	27.48
He2019	10.1007/s10845-019-01518-4	OtherJournal	2019	25	0	36	null	36	100.00
MercierH08	10.1287/ijoc.1070.0226	InformsJC	2008	32	33	0	null	33	100.00
PerronSF04	10.1007/978-3-540-30201-8 35	CP	2004	34	34	67	null	33	49.25
SchildW00	10.1023/a:1009804226473	Constraints	2000	23	0	32	null	32	100.00
BeckW07	10.1613/jair.2080	OtherJournal	2007	29	31	61	null	32	52.46
Lindauer2015	10.1613/jair.4726	OtherJournal	2015	53	58	84	null	31	36.90
TranB12	10.3233/978-1-61499-098-7-774	ECAI	2012	0	0	30	null	30	100.00
Thorsteinsson01	10.1007/3-540-45578-7 2	CP	2001	67	68	97	null	30	30.93
HarjunkoskiMBC14	10.1016/j.compchemeng.2013.12.001	OtherJournal	2014	388	393	418	null	30	7.18
1101,4111001111111111111111111111111111	10.1010/J.compenemeng.2010.12.001	C SHOLOGULHAL	2011	550	555	110	11411	30	1.10

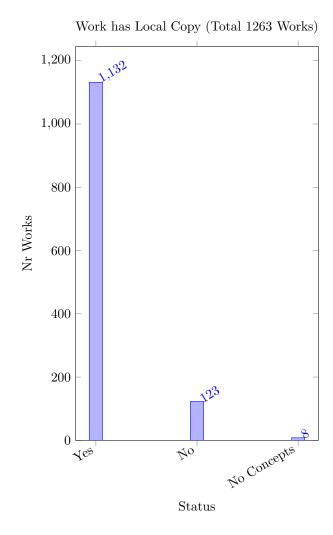
We only have Web of Science data in a few bibtex entries, we here try to evaluate their citation numbers on those bib entries which are from WoS.

Table 5: Works with WoS Citation Counts

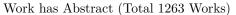
Key	DOI	Source Group	Year	Nr Citations	Crossref Citations	Scopus Citations	WoS Citations	Range Citations	Range Percentage
KendallKRU10	10.1016/j.cor.2009.05.013	ORJournal	2010	183	186	220	161	37	16.82
MeskensDL13	10.1016/j.dss.2012.10.019	OtherJournal	2013	103	102	116	103	14	12.07
RasmussenT07	10.1016/j.ejor.2005.10.063	EJOR	2007	60	62	71	53	11	15.49
Ribeiro12	10.1111/j.1475-3995.2011.00819.x	OtherJournal	2012	48	52	54	41	6	11.11
ElfJR03	10.1016/s0167-6377(03)00025-7	OtherJournal	2003	41	41	45	34	4	8.89
Trick03	10.1007/978-3-540-45157-0_4	OtherConf	2003	22	24	39	34	17	43.59
RasmussenT06	10.1007/1175737515	CPAIOR	2006	10	12	19	11	9	47.37
FelizariAL09	10.1016/s1570-7946(05)80013-6	OtherConf	2009	7	7	12	1	5	41.67
MagataoAN05	10.1016/s1570-7946(05)80013-6	OtherConf	2005	7	7	12	12	5	41.67
RasmussenT09	10.1007/s10479-008-0384-4	ORJournal	2009	9	9	9	8	0	0.00
Trick11	10.1007/978-1-4419-1644-015	Incoll	2011	2	2	5	5	3	60.00
LiuLH19a	10.5220/0007252300290039	OtherConf	2019	3	3	4	4	1	25.00
SuCC13	10.1016/j.cie.2013.02.021	OtherJournal	2013	2	2	4	1	2	50.00
ZengM12	10.1016/j.cor.2011.10.004	ORJournal	2012	3	3	4	3	1	25.00
GhandehariK22	10.1016/j.apm.2022.01.001	OtherJournal	2022	4	4	4	3	0	0.00
BulckG22	10.1007/s10951-021-00717-3	OtherJournal	2022	2	3	3	3	1	33.33
Perron05	10.1007/1156475167	CP	2005	1	1	2	1	1	50.00
LiuLH18	10.1007/978-3-030-05918-7_7	OtherConf	2018	2	2	1	1	1	50.00
MeskensDHG11	n/a	OtherConf	2011	0	0	0	null	0	NaN
NaqviAIAAA22	10.32604/cmc.2022.019653	OtherJournal	2022	0	0	0	0	0	NaN
KonowalenkoMM19	10.1109/tla.2019.8932340	OtherJournal	2019	0	0	0	0	0	NaN

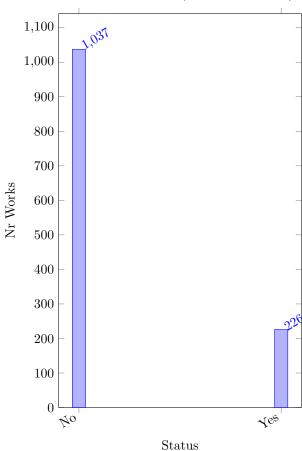
2.2 Local Copies

The tool relies on local pdf copies of works to perform a detailed analysis of the content of the work. We have collected our own private copies of works for that purpose. The following plot shows how many entries do not have a local copy, or which do not extract any concepts from the local copy. A detailed list of all missing entries is given in the main report. Note that in some cases we use an open access version of the work, which might differ slightly from the published version.



2.3 Presence of Abstracts





2.4 Orphan Files

The following list shows entries for which we have a pdf file in the works directory, but the name of hte file does not match any key in the bibliography. These orphans should be resolved, either by correcting the name, or adding a bib entry for the work, or by removing the file, if it is not required.

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If there are no files listed, then all pdf files in the works directory correspond to a bib entry, and no clean-up is required.

Table 6: Orphan Files

Key File

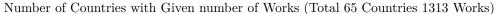
2.5 Missing Publisher

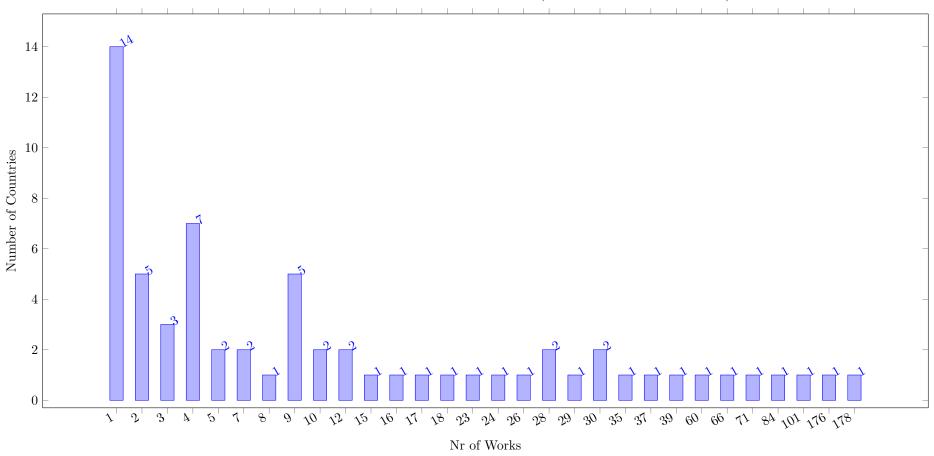
Table 7: Missing Publisher

				Nr	Crossref	Scopus	WoS	Range	Range
Key	DOI	Source Group	Year	Citations	Citations	Citations	Citations	Citations	Percentage

Generated: July 31, 2024

3 Works by Location



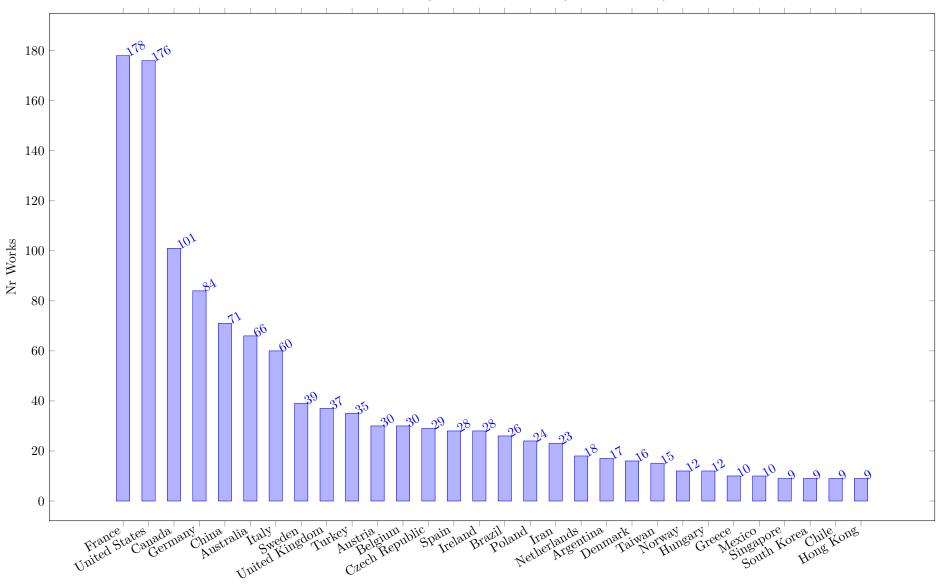


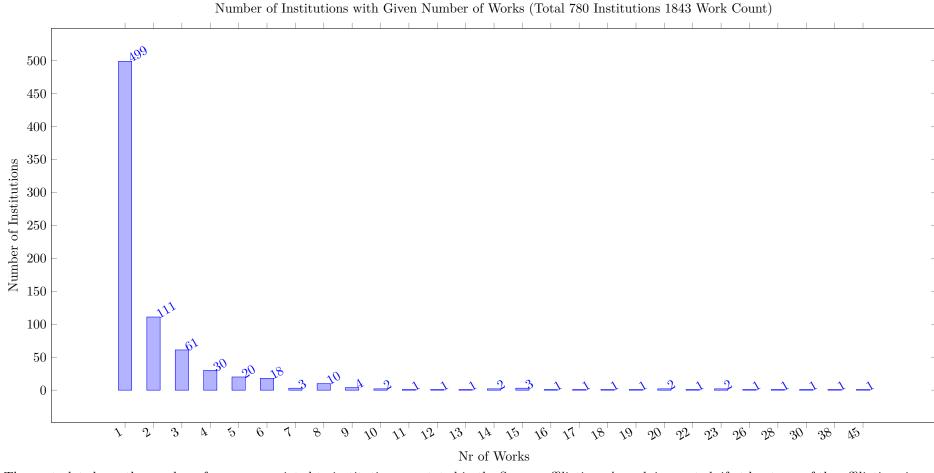
This section analyzes papers by affiliation, which is given by the Scopus data only. Only works which are covered by Scopus are included. We first present the number of papers by country. A paper is counted in this analysis (once), if at least one of the affiliations is from the country. Multiple affiliations from the same country only count once. The 30 countries with the largest counts are shown.

Note that one work will be counted for multiple countries, if the affiliations are from different countries. So the sum of the bar heights typically exceeds the total number of works considered.

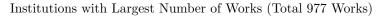
Generated: July 31, 2024

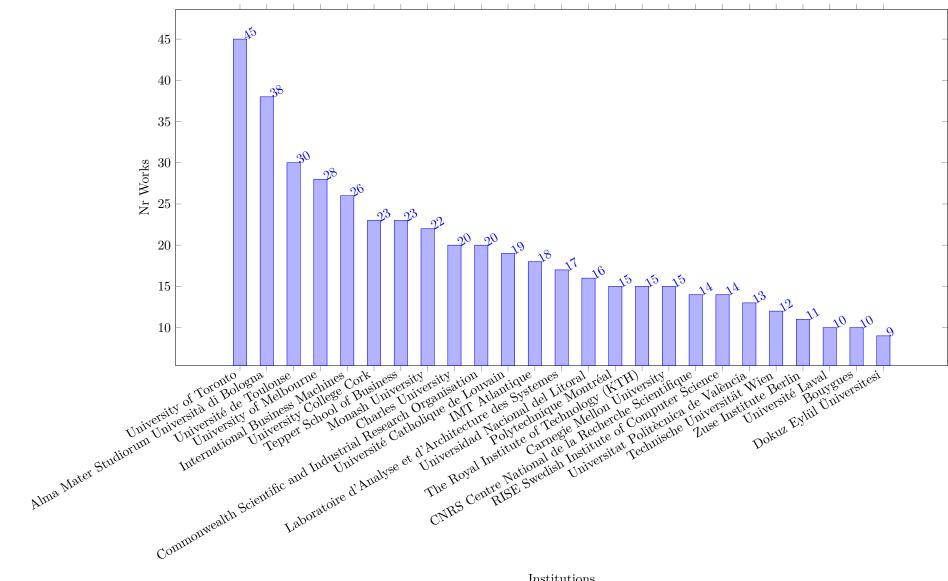
Countries with Largest Number of Works (Total 977 Works)





The next plot shows the number of papers associated to institutions, as stated in the Scopus affiliation. A work is counted, if at least one of the affiliations is from a given institution. Due to the format of the Scopus data, we cannot fractionally assign a paper based on the author affiliations, each paper is counted one for every institution for which an affiliation is given. If some author has multiple affiliations listed, we (mis)count the work for each of them.





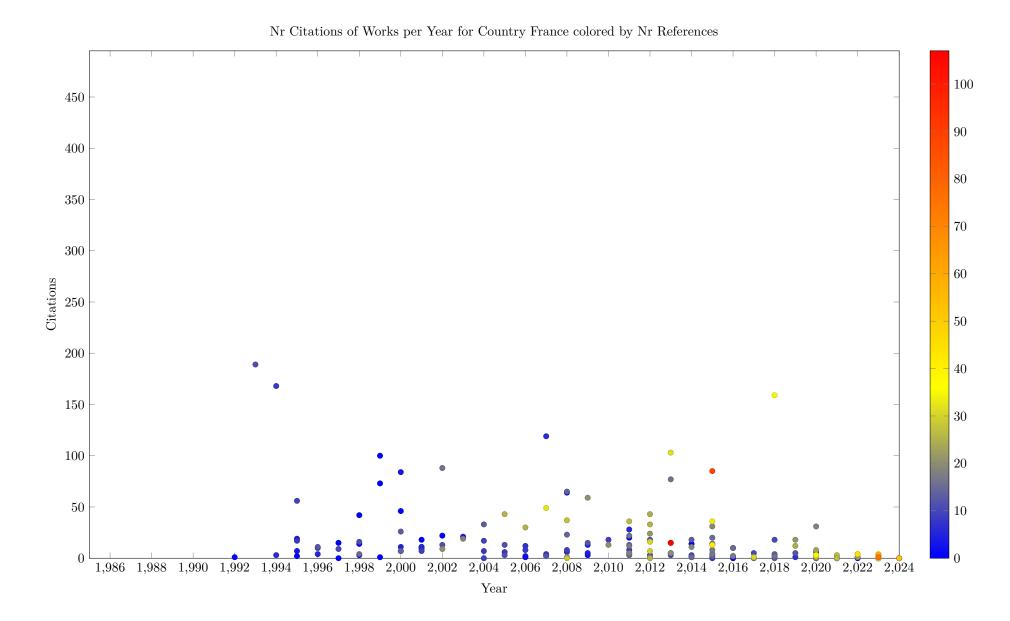
Institutions

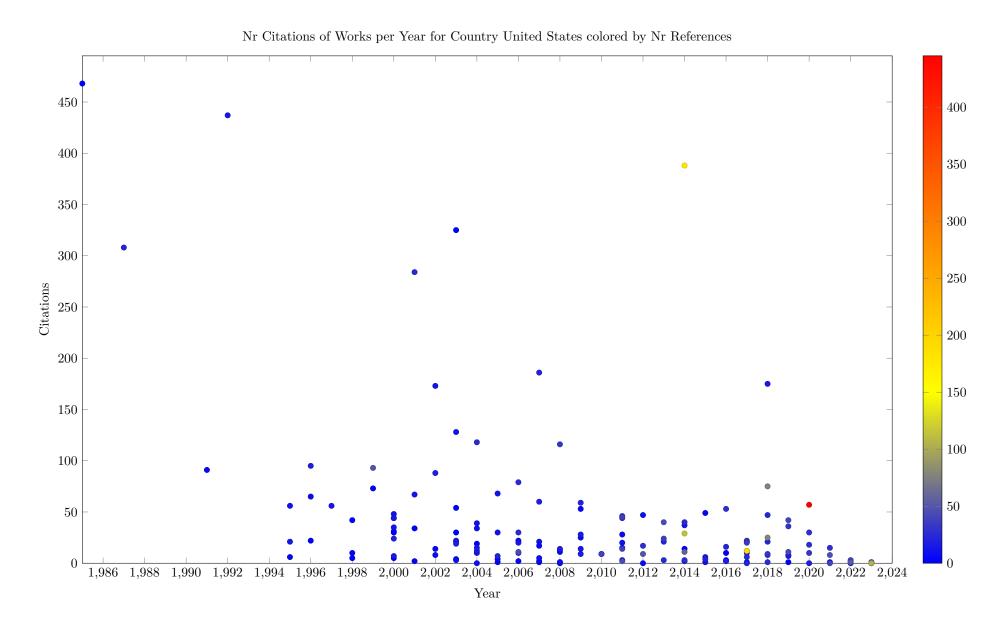
The following plots show for the top 30 countries when the works included were published, and how many citations (OpenCitation count) each paper had.

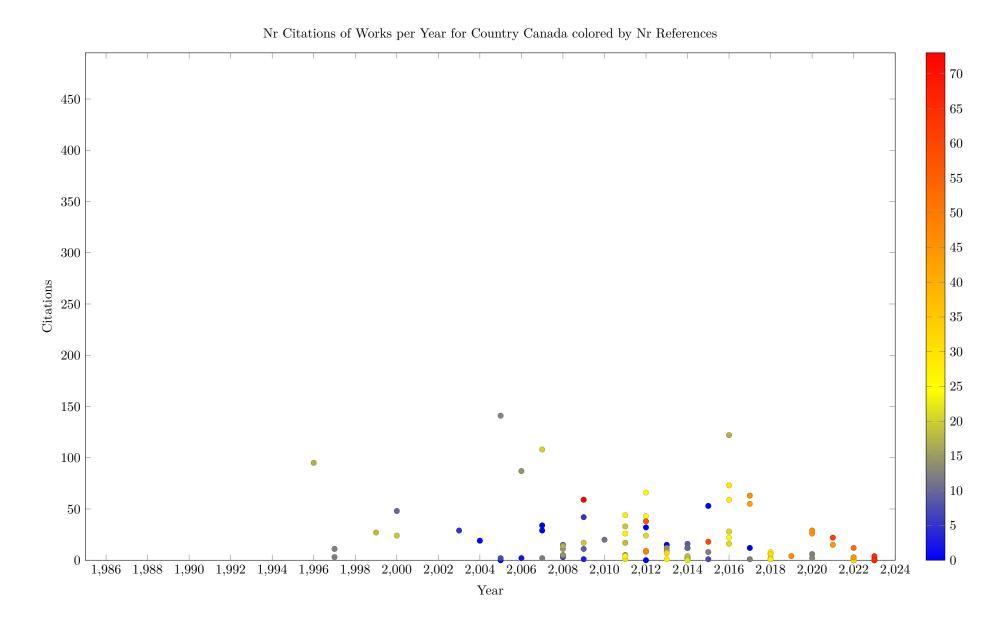
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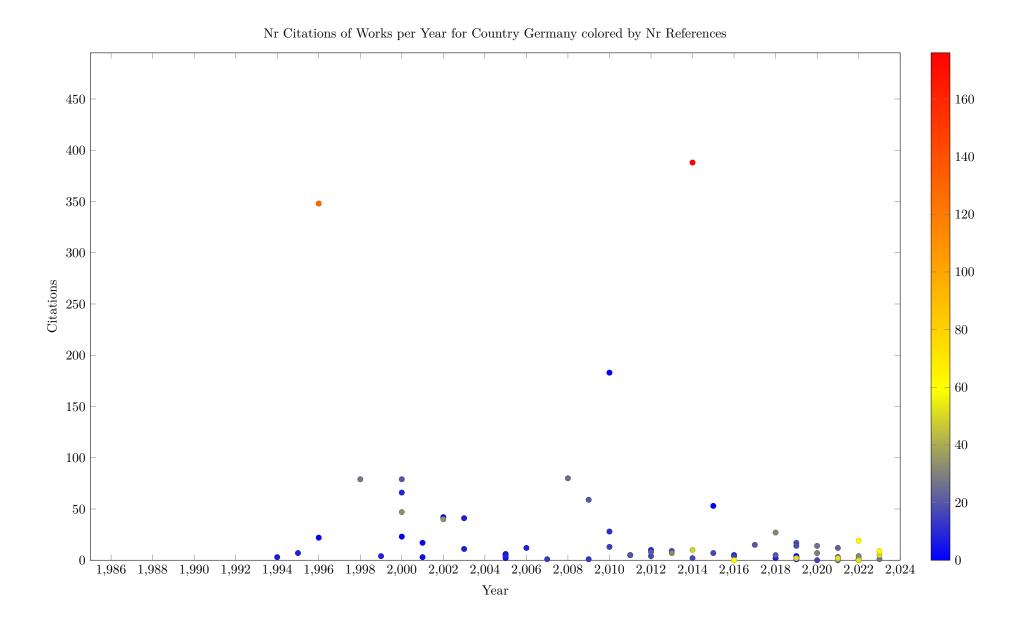
The scatter plots are colored by the number of references (OpenCitation count), this help to identify surveys more easily. The plot gives an indication in which period the work from the country falls, and how influential the published works are. The x and y ranges of all plots are uniform to allow comparison between plots.

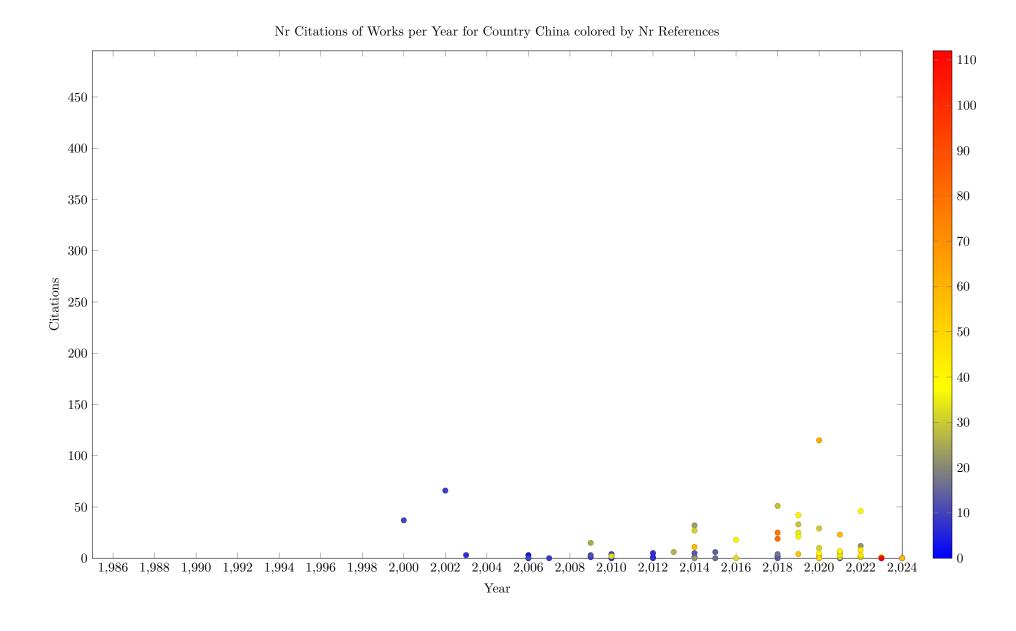
It would be nice to have tooltips on the plots, so identify specific works in the plots. This is currently not supported by the framework library used.

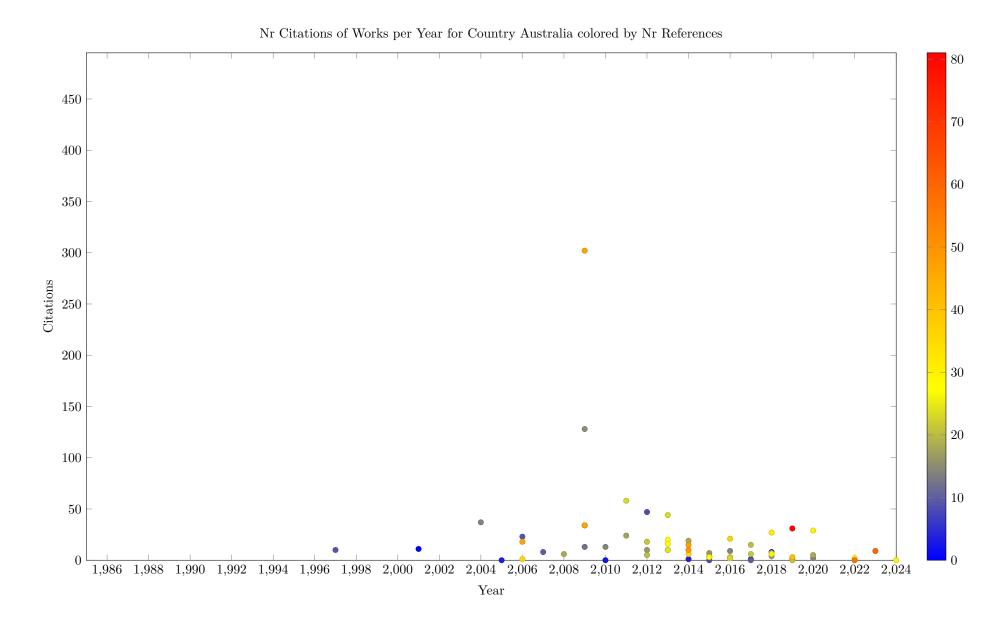


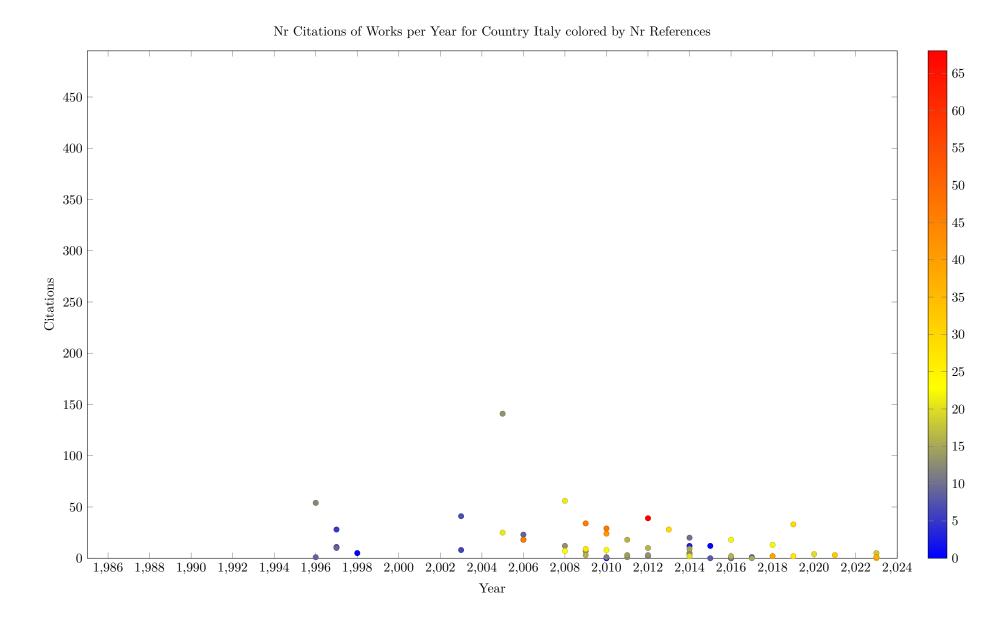


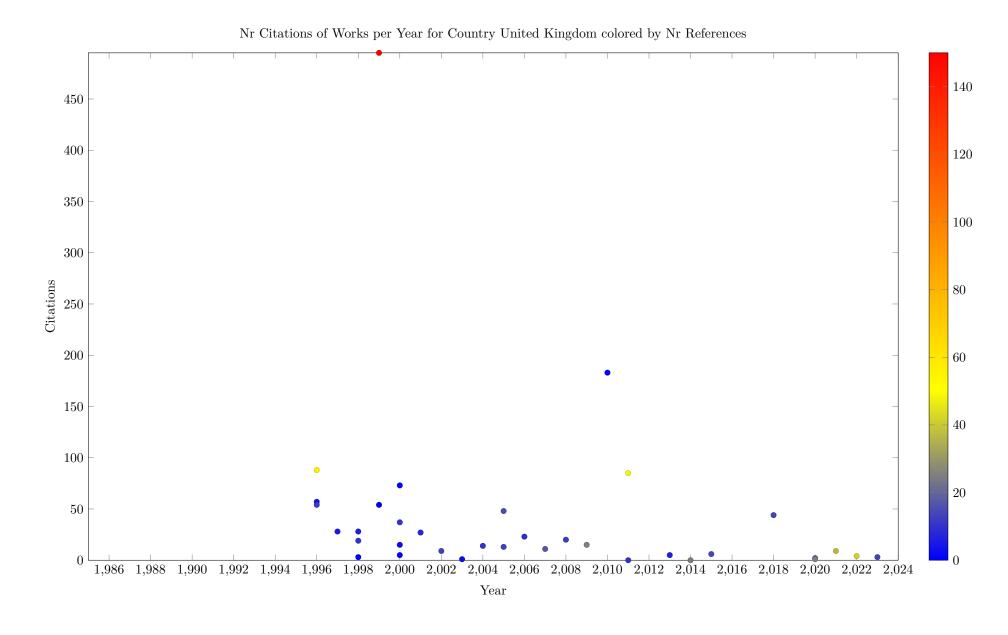


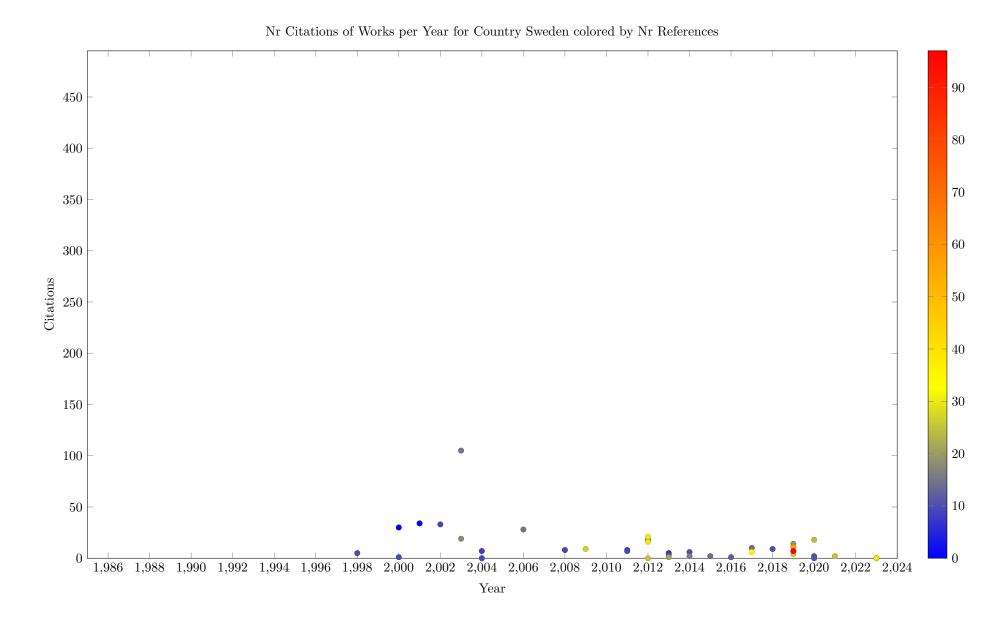


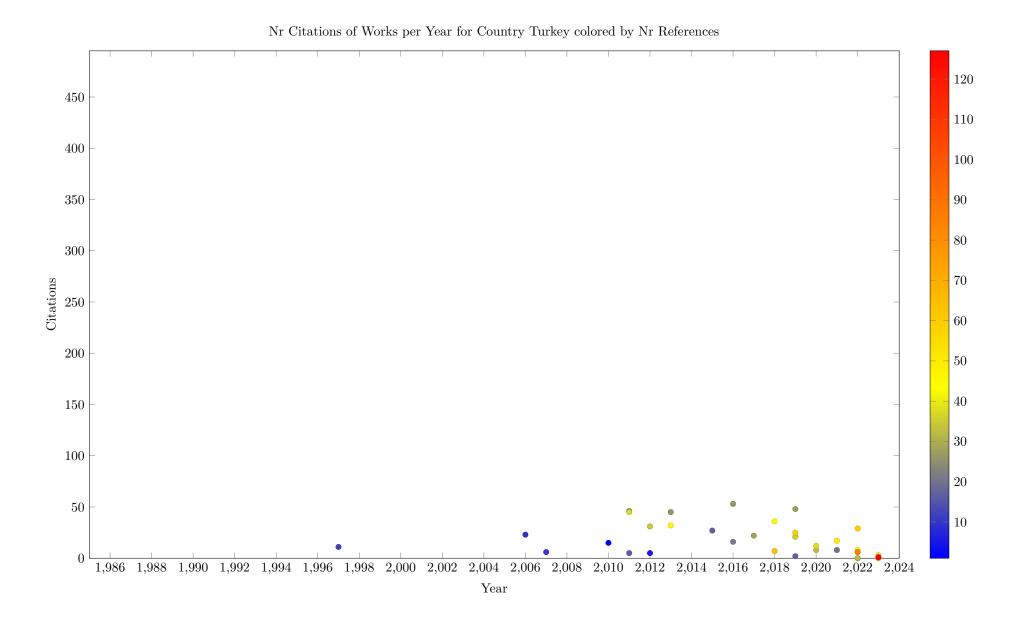


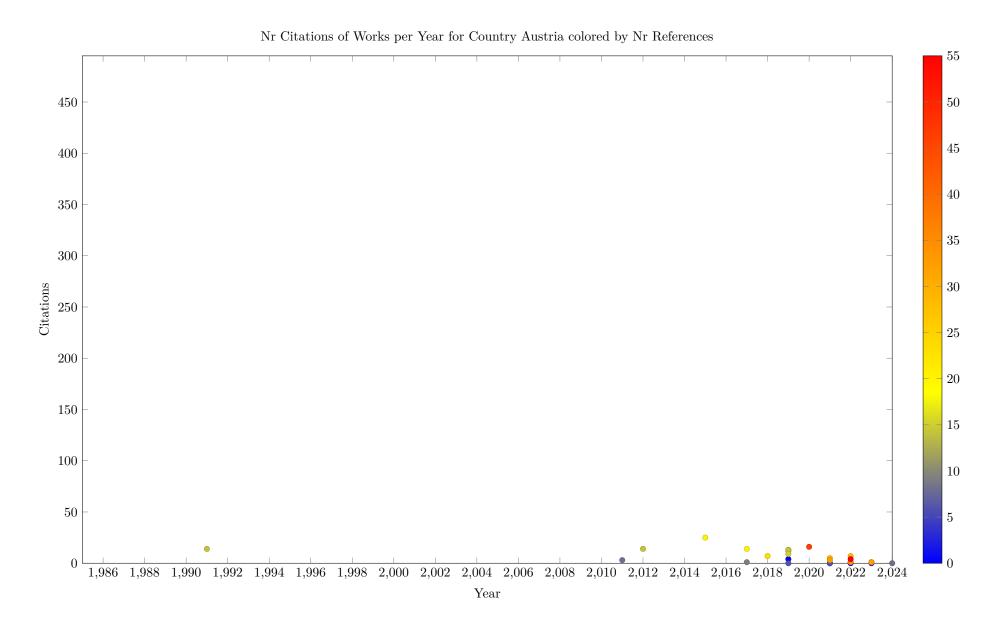


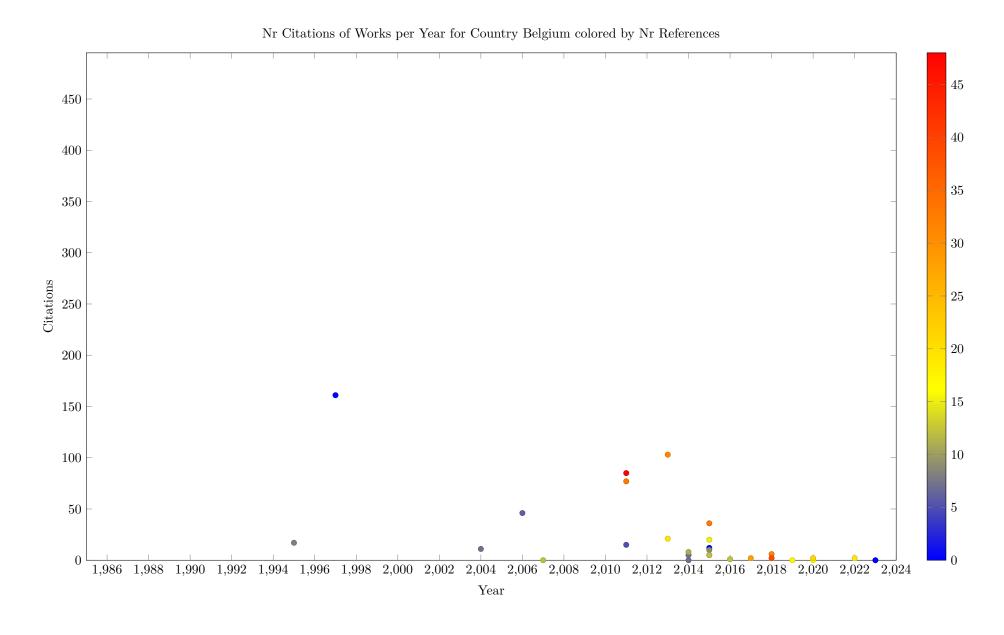


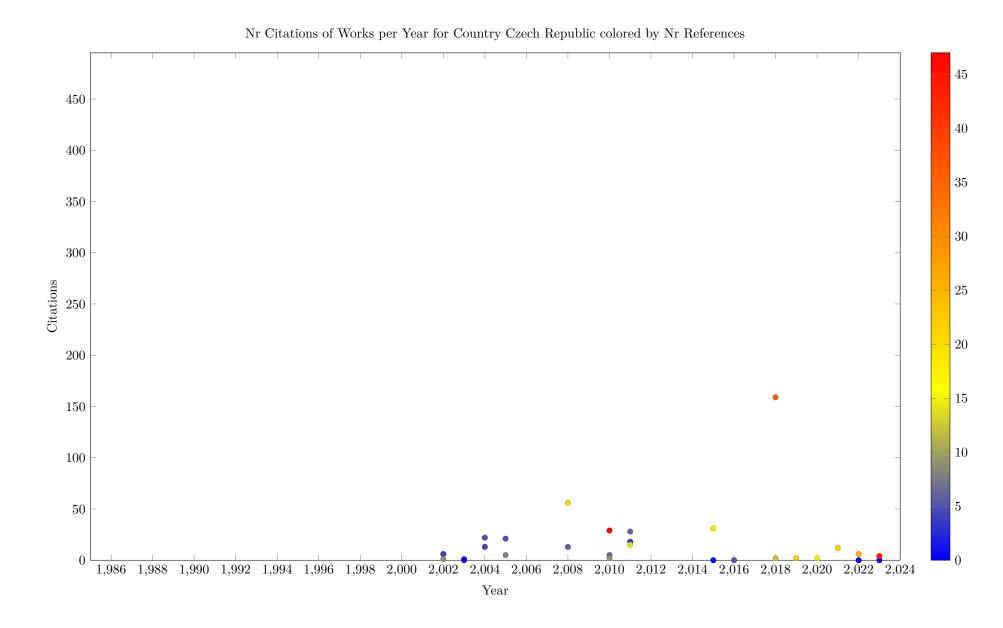


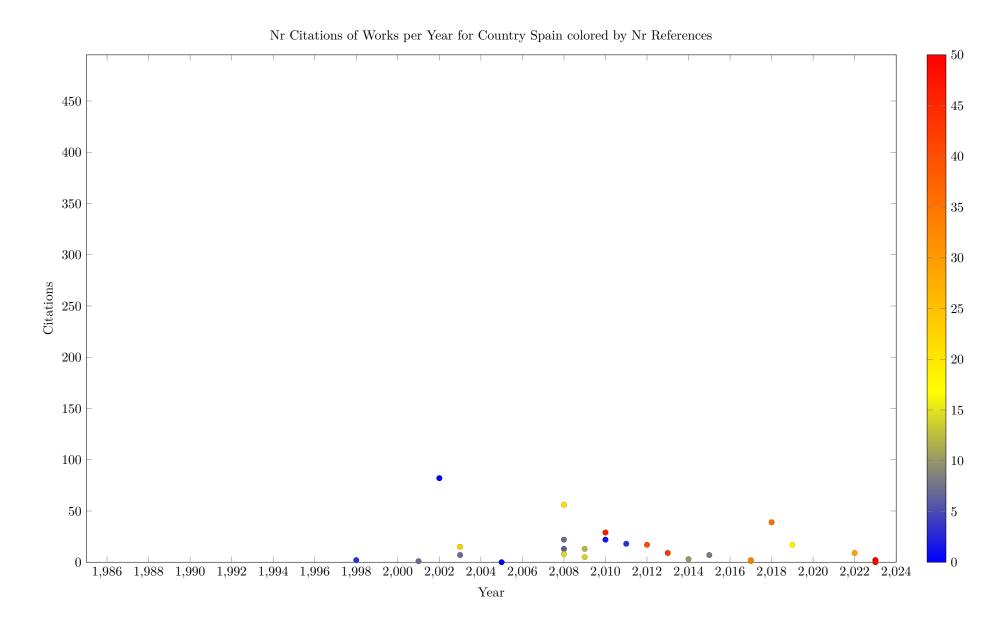


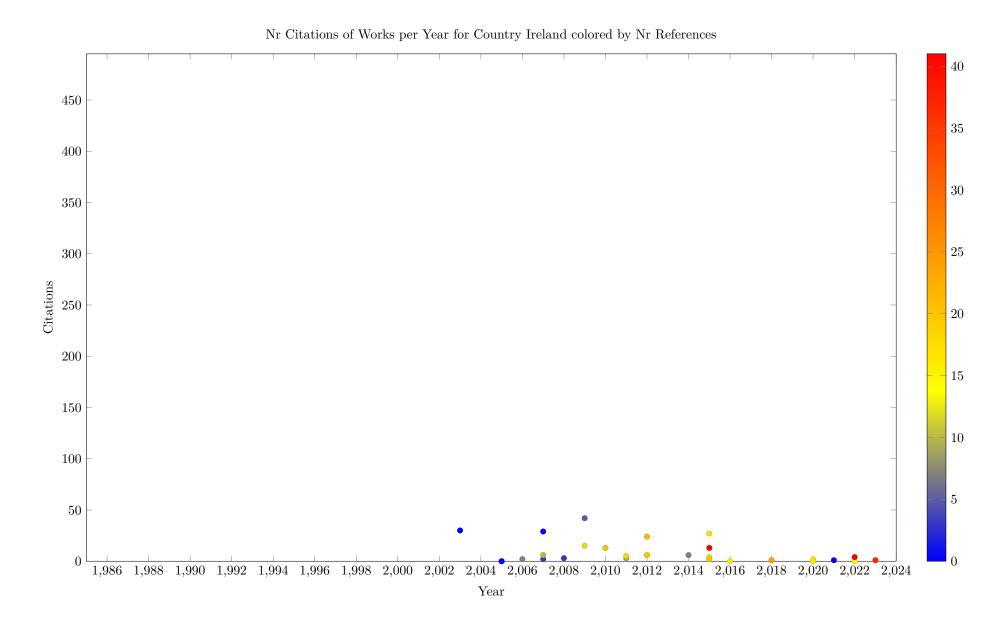


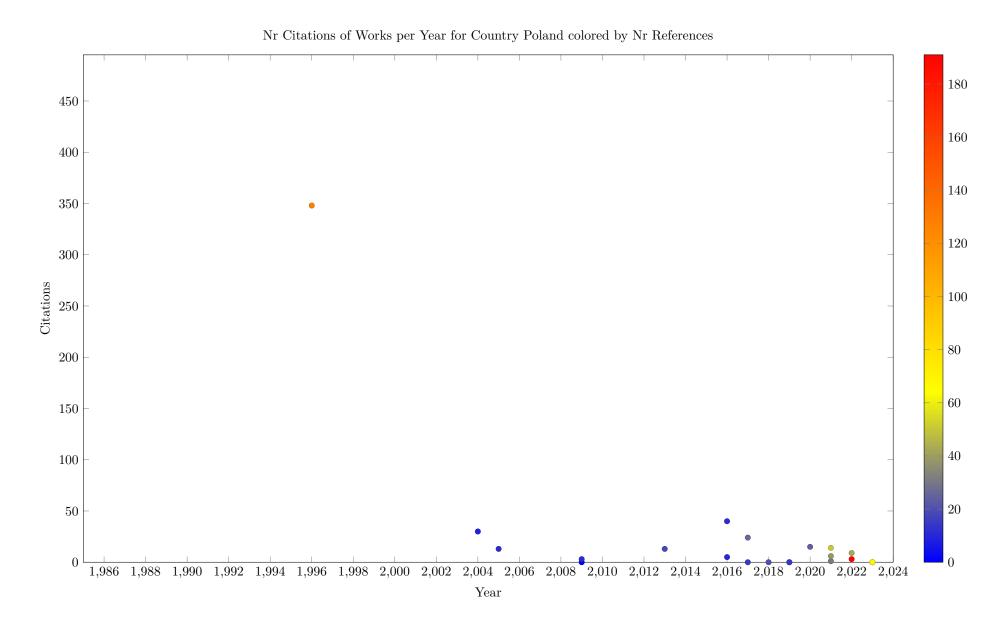


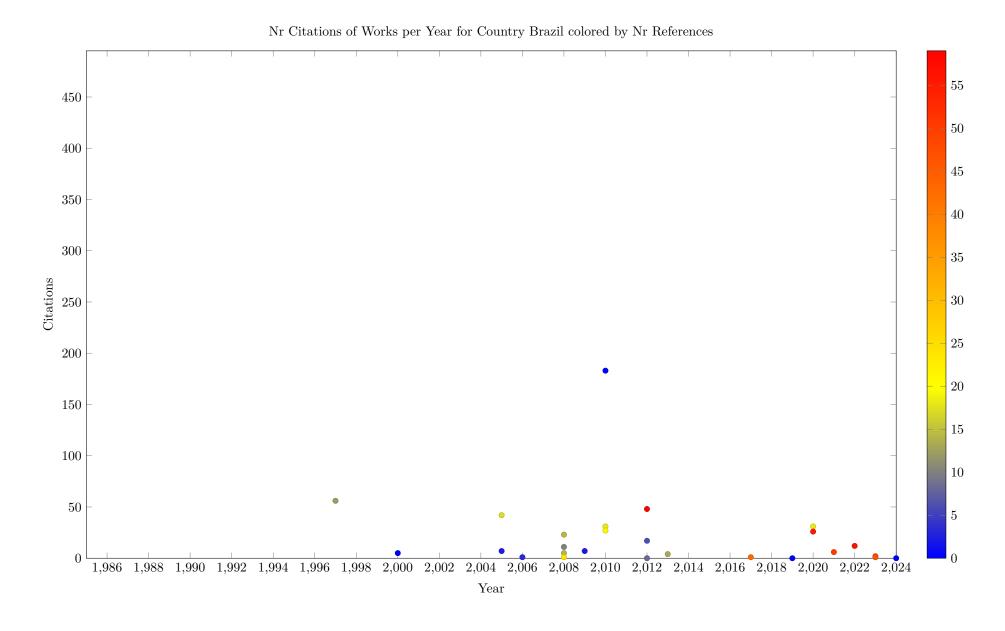


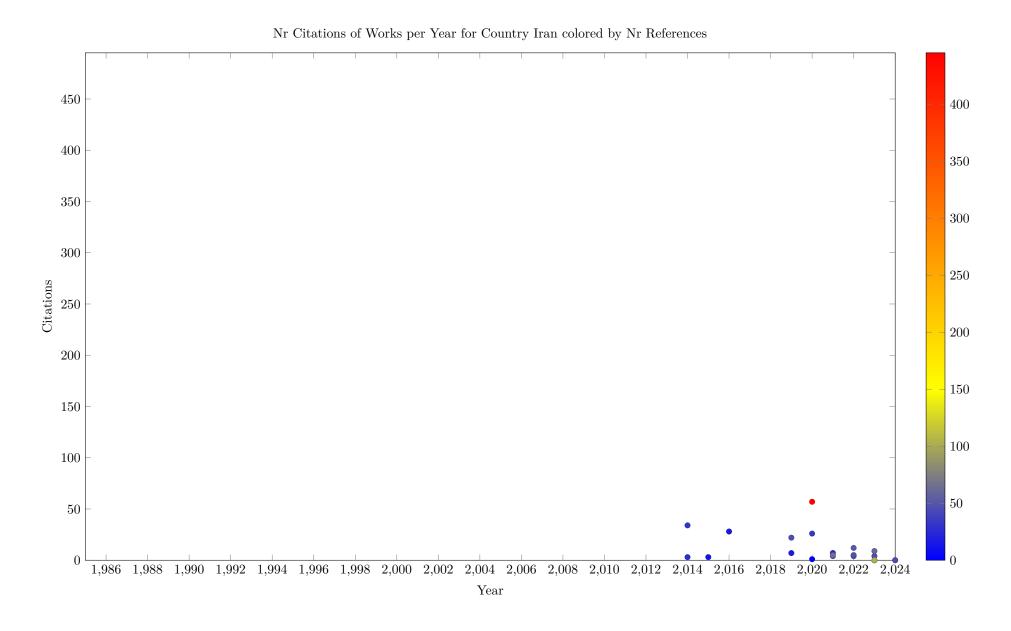


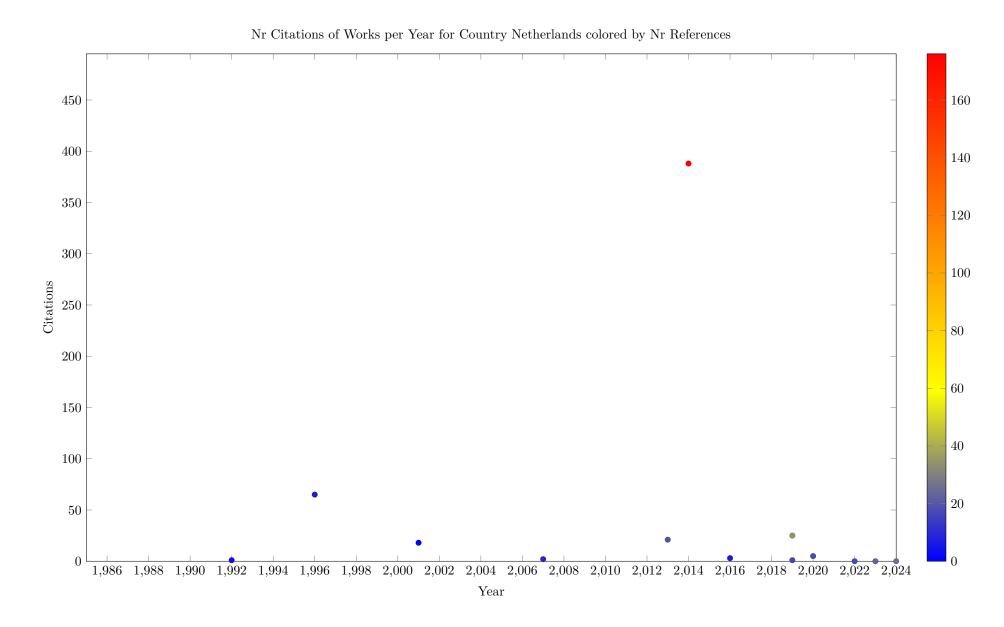


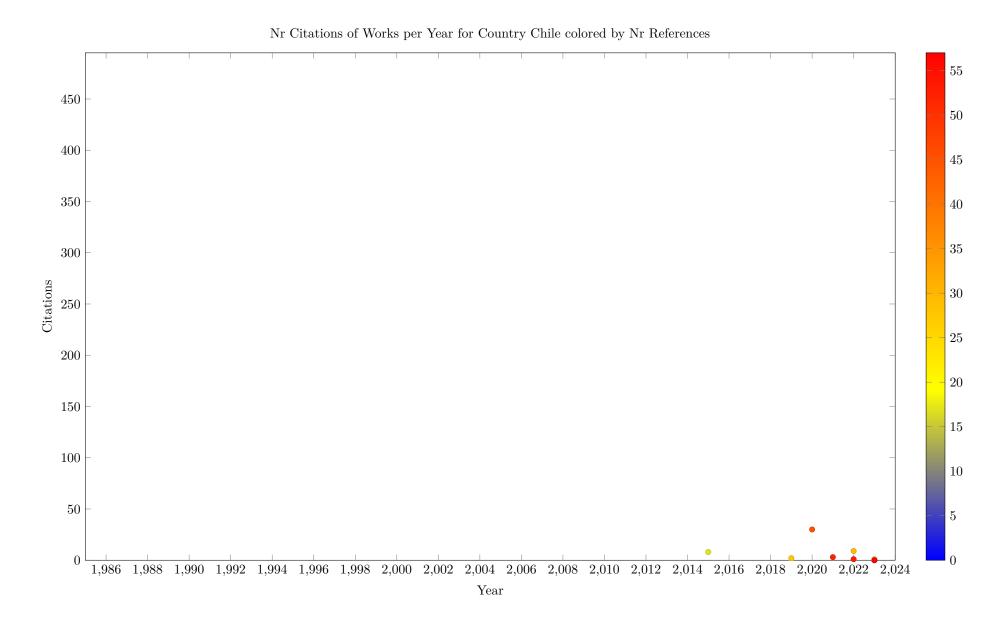


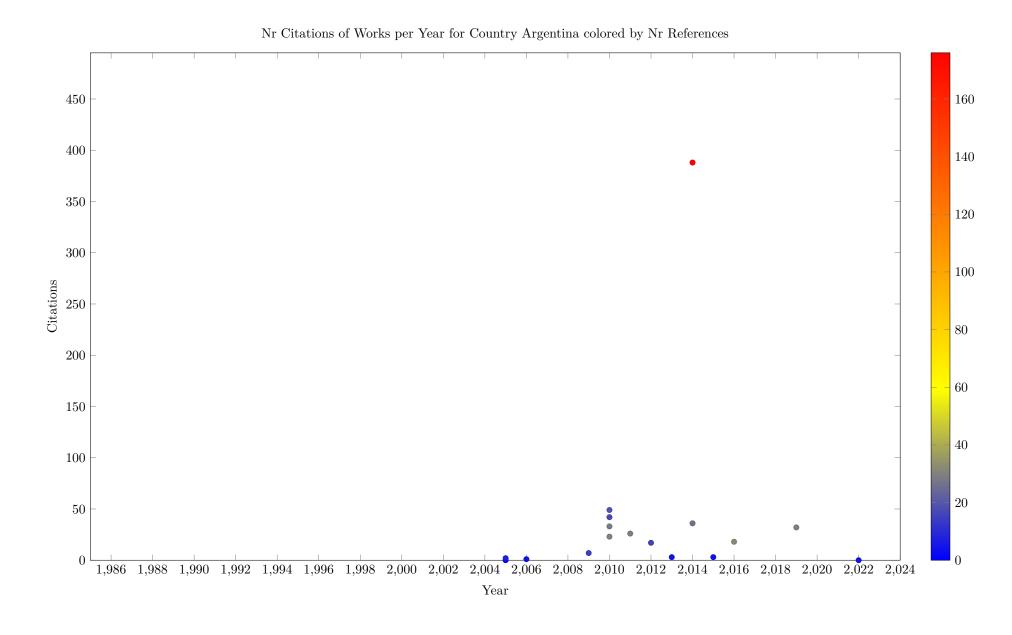


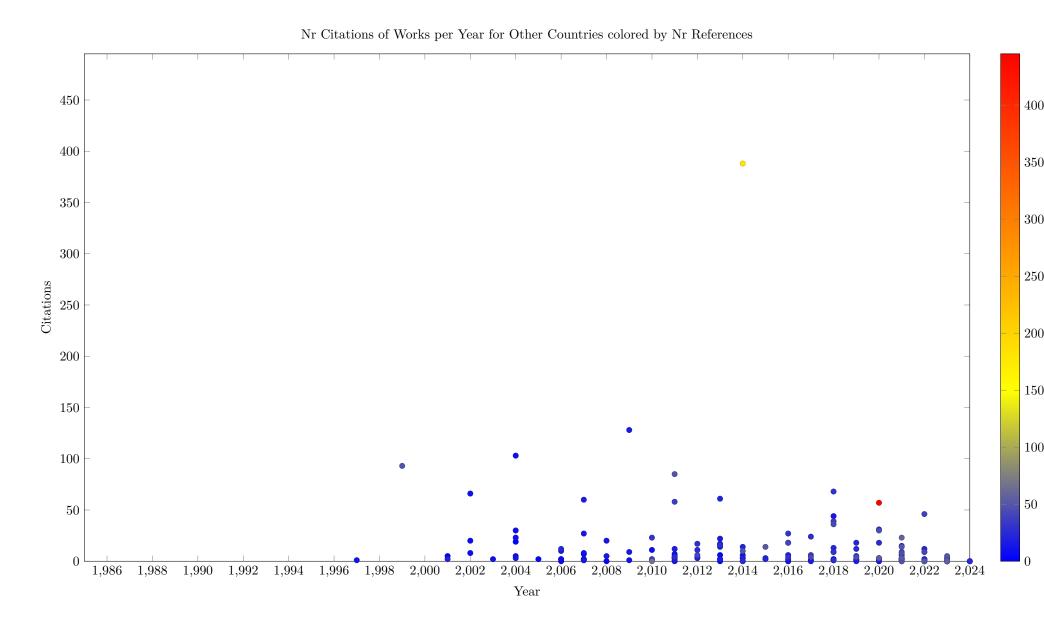








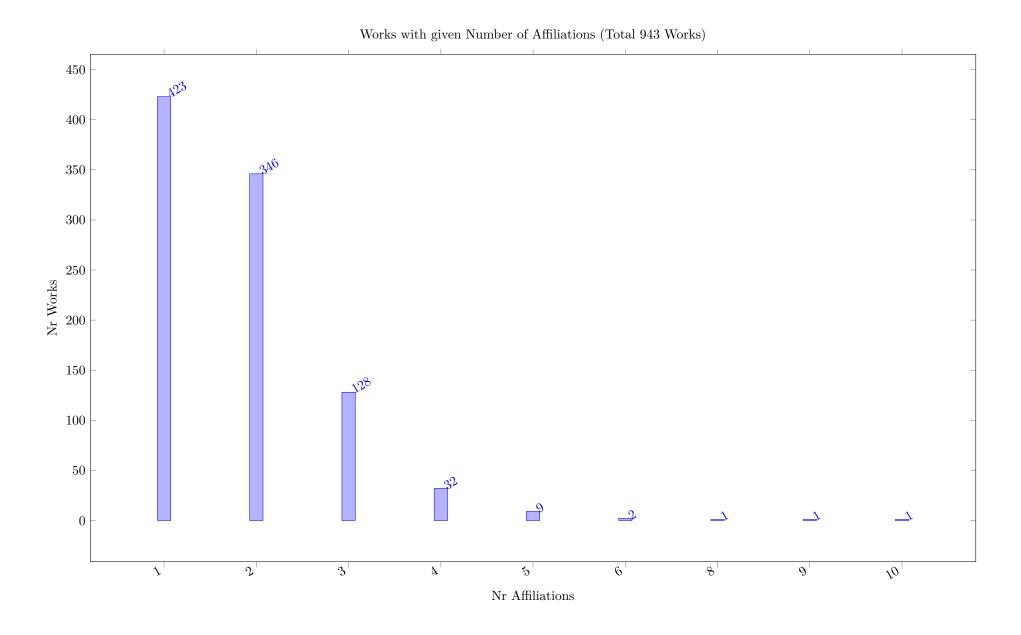




4 Collaborations

This section shows data about collaborations between multiple affiliations for the same work. This is based on Scopus data, which associates the affiliation with the work, not with each author of the work. The analysis excludes background work.

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Table 8: Collaboration Da	` -		<u> </u>			ъ	T	G 11 1	T
Inst	m Nr $ m Works$	Collab Count	Domestic Collab	International Collab	Collab Fraction	Domestic Fraction	International Fraction	Collab Percentage	International Percentage
University of Toronto, Toronto, Canada	45	43	18	25	28.00	8.50	19.50	62.22	43.33
Université de Toulouse, Toulouse, France	30	40	20	20	23.00	15.83	7.17	76.67	23.89
University of Melbourne, Melbourne, Australia	28	34	23	11	22.00	15.00	7.00	78.57	25.00
Commonwealth Scientific and Industrial Research Organisation, Canberra, Australia	20	37	25	12	20.00	15.33	4.67	100.00	23.33
Monash University, Clayton, Australia	22	28	19	9	19.00	13.50	5.50	86.36	25.00
University College Cork, Cork, Ireland	23	31	6	25	17.00	1.76	15.24	73.91	66.25
Alma Mater Studiorum Università di Bologna, Bologna, Italy	38	26	6	20	16.00	3.83	12.17	42.11	32.02
Laboratoire d'Analyse et d'Architecture des Systemes, Toulouse, France	17	23	18	5	16.00	13.00	3.00	94.12	17.65
International Business Machines, Armonk, United States	26	20	2	18	15.00	2.00	13.00	57.69	50.00
The Royal Institute of Technology (KTH), Stockholm, Sweden	15	25	18	7	14.00	10.67	3.33	93.33	22.22
IMT Atlantique, Nantes, France	18	17	7	10	14.00	5.00	9.00	77.78	50.00
RISE, Swedish Institute of Computer Science, Kista, Sweden	14	16	5	11	12.00	4.00	8.00	85.71	57.14
CNRS Centre National de la Recherche Scientifique, Paris, France	14	14	9	5	10.00	7.00	3.00	71.43	21.43
Tepper School of Business, Pittsburgh, United States	23	19	7	12	10.00	3.33	6.67	43.48	28.99
Polytechnique Montréal, Montreal, Canada	15	11	7	4	9.00	6.50	2.50	60.00	16.67
Technische Universität Wien, Vienna, Austria	12	10	6	4	9.00	6.00	3.00	75.00	25.00
Charles University, Prague, Czech Republic	20	12	5	7	9.00	4.50	4.50	45.00	22.50
Université Catholique de Louvain, Louvain-la-Neuve, Belgium	19	12	2	10	9.00	1.33	7.67	47.37	40.35
Rotman School of Management, Toronto, Canada	8	19	15	4	8.00	6.17	1.83	100.00	22.92
University of Connecticut, Storrs, United States	8	12	8	4	8.00	5.83	2.17	100.00	27.08
Universidade de São Paulo, Sao Paulo, Brazil	8	9	5	4	7.00	4.50	2.50	87.50	31.25
Dokuz Eylül Üniversitesi, Izmir, Turkey	9	8	6	2	7.00	5.00	2.00	77.78	22.22
Universitat Politècnica de València, Valencia, Spain	13	10	1	9	7.00	1.00	6.00	53.85	46.15
Politechnika Koszalinska, Koszalin, Poland	8	11	8	3	7.00	5.00	2.00	87.50	25.00
Zuse Institute Berlin, Berlin, Germany	11	9	6	3	7.00	4.50	2.50	63.64	22.73
Bouygues, Paris, France	10	8	6	2	7.00	5.00	2.00	70.00	20.00
Université d'Avignon et des Pays du Vaucluse, Avignon, France	8	10	8	2	7.00	5.00	2.00	87.50	25.00
University of Windsor, Windsor, Canada	6	13	11	2	6.00	5.17	0.83	100.00	13.89
ABB Corporate Research, Vasteras, Vasteras, Sweden	6	12	10	2	6.00	5.00	1.00	100.00	16.67
Izmir Ekonomi Universitesi, Izmir, Turkey	8	12	5	7	6.00	3.50	2.50	75.00	31.25
Universidad Nacional del Litoral, Santa Fe, Argentina	16	14	4	10	6.00	4.00	2.00	37.50	12.50
Magyar Tudomanyos Akademia, Budapest, Hungary	9	7	1	6	6.00	1.00	5.00	66.67	55.56
Brown University, Providence, United States	8	13	7	6	6.00	4.53	1.47	75.00	18.33
Université de Maroua, Maroua, Cameroon	6	10	6	4	6.00	3.67	2.33	100.00	38.89
Université Grenoble Alpes, Saint Martin d'Heres, France	5	8	7	1	5.00	4.67	0.33	100.00	6.67
National University of Singapore, Singapore City, Singapore	5	7	1	6	5.00	0.50	4.50	100.00	90.00
Czech Institute of Informatics, Robotics and Cybernetics, Prague, Czech Republic	5	7	3	4	5.00	2.50	2.50	100.00	50.00
University of Tehran, Tehran, Iran	7	7	1	6	5.00	1.00	4.00	71.43	57.14
Alborg University, Aalborg, Denmark	5	8	0	8	5.00	0.00	5.00	100.00	100.00
Sorbonne Université, Paris, France	6	7	6	1	5.00	4.00	1.00	83.33	16.67
Universite Catholique de L'Ouest, Angers, France	6	10	10	0	5.00	5.00	0.00	83.33	0.00
Compagnie IBM France, Bois-Colombes, France	8	7	3	4	5.00	2.00	3.00	62.50	37.50
Technische Universität Berlin, Berlin, Germany	6	13	5	8	5.00	3.50	1.50	83.33	25.00
Nantes Université, Nantes, France	5	13	4	9	5.00	3.00	2.00	100.00	40.00
Université Laval, Quebec, Canada	10	10	3	7	5.00	2.00	3.00	50.00	30.00
Oniversite Davar, Quebec, Canada	10	10	3		5.00	2.00	5.00	50.00	50.00

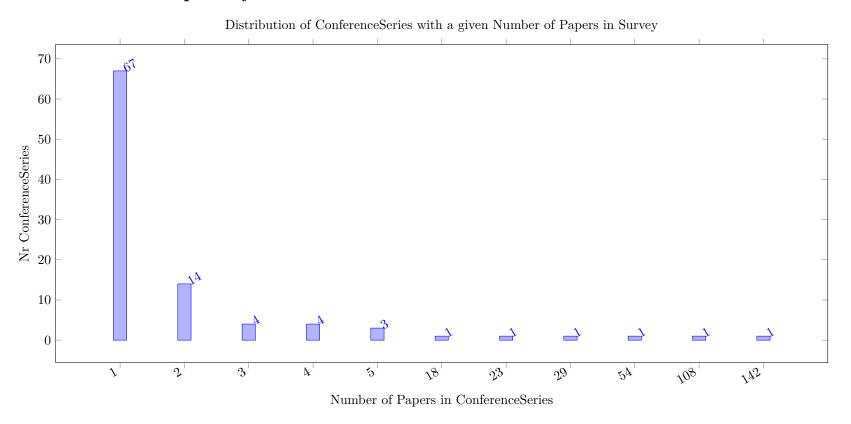
Table 9: Heat Map based on Collaboration between Countries (Fractional Count)

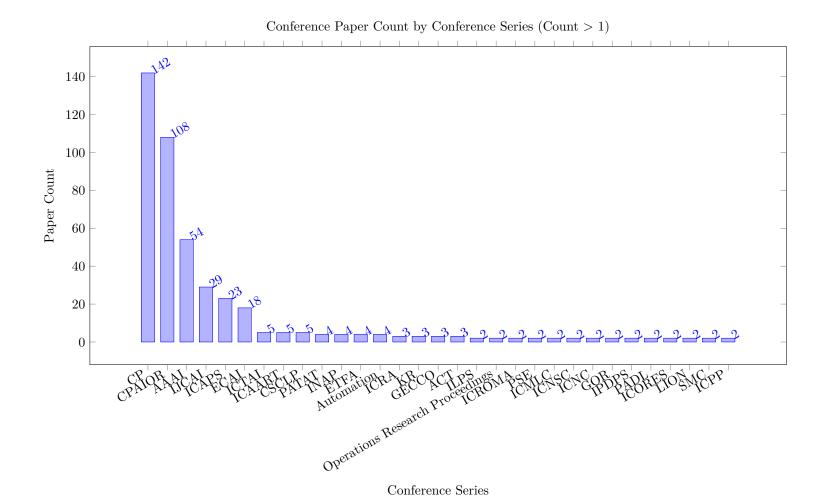
	Table 9: Heat Map based on Conaboration between Countries (Fractional Count)																										
From/To Total	Total	00.702 France	00 United States	00.96 Canada	00.10 China	00. Australia	00.76 OGermany	00.08 Sweden	41.00 Italy	00.78 Turkey	00. O Austria	0. O United Kingdom	00.65 lreland	25.00	00 Czech Republic	op. Chile 22.00	21.00 Belgium	uisedS 20.00	00.61 Brazil	ueu 17.00	00.51 Denmark	15.00 Taiwan	00.E1 Norway	00.81 00 Singapore	00.21 Norea	00.71 Argentina	Other
France	207.00	143.33	11.12	3.50	2.00	1.00	3.48	9.50	0.83	0.00	0.00	3.00	6.07	1.00	2.50	1.00	4.33	0.00	1.50	0.50	1.00	0.50	2.58	0.00	0.00	0.00	8.25
	152.00	11.12	73.69	9.83	6.67	2.67	3.01	4.00	3.17	4.50	0.00	0.83	5.98	0.00	0.00	1.00	2.53	0.00	1.50	3.50	4.00	1.00	0.00	0.00	3.67	0.44	8.90
Canada	96.00	3.50	9.83	61.00	1.00	0.33	4.33	0.00	1.00	1.50	0.00	0.00	3.50	0.00	0.00	0.00	1.00	1.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
China	91.00	2.00	6.67	1.00	64.00	1.00	0.00	0.00	1.00	2.33	0.00	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.83	0.00	0.00	4.50
Australia	81.00	1.00	2.67	0.33	1.00	55.67	5.17	0.00	4.92	0.25	1.00	1.00	0.50	0.00	0.00	0.00	0.00	1.00	0.00	0.50	1.67	0.00	0.33	0.00	0.00	0.00	4.00
Germany	67.00	3.48	3.01	4.33	0.00	5.17	33.22	1.00	1.50	0.00	2.00	0.33	0.57	1.00	1.00	0.00	0.00	1.00	0.67	0.50	1.33	0.00	0.00	0.00	1.00	0.22	5.67
Sweden	50.00	9.50	4.00	0.00	0.00	0.00	1.00	26.67	1.33	0.00	0.00	0.50	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	4.00
Italy	41.00	0.83	3.17	1.00	1.00	4.92	1.50	1.33	12.67	0.25	1.00	2.50	1.00	0.00	1.00	1.00	2.00	1.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	4.00
Turkey	37.00	0.00	4.50	1.50	2.33	0.25	0.00	0.00	0.25	24.67	0.00	0.50	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Austria	33.00	0.00	0.00	0.00	0.00	1.00	2.00	0.00	1.00	0.00	29.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
United Kingdom	30.00	3.00	0.83	0.00	2.67	1.00	0.33	0.50	2.50	0.50	0.00	9.00	1.50	0.00	0.00	0.00	0.50	0.00	1.17	0.00	1.00	0.00	0.50	0.00	0.00	0.00	5.00
Ireland	29.00	6.07	5.98	3.50	0.00	0.50	0.57	0.00	1.00	2.00	0.00	1.50	6.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50
Poland	25.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00		17.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	2.00
Czech Republic	22.00	2.50	0.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	13.00	0.00	0.00	3.00	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chile	22.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00		13.20	0.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.60
Belgium	21.00	4.33	2.53	1.00	0.00	0.00	0.00	2.00	2.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	5.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.60
Spain	20.00	0.00	0.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	3.00	1.20	0.00	9.40	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40
Brazil	19.00	1.50	1.50	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	1.17	0.00	0.00	0.00	0.00	0.00	1.00	12.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
Iran	17.00	0.50	3.50	3.00	0.00	0.50	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
Denmark	15.00	1.00	4.00	0.00	0.00	1.67	1.33	0.00	0.00	0.00	0.00	1.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00
Taiwan	15.00	0.50	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.50	0.00	0.00	0.00	5.00
Norway	13.00	2.58	0.00	0.00	0.00	0.33	0.00	1.00	0.83	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	4.00	0.00	0.00	0.00	3.25
Singapore	13.00	0.00	0.00	0.00	5.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.67	0.00	0.00	2.50
South Korea	12.00	0.00	3.67	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	4.00	0.00	2.33
Argentina	12.00	0.00	0.44	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	1.33
Greece	12.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	10.00
Cameroon	12.00	0.00	0.00	1.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00
Tunisia	11.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00
Hungary	10.00	1.50	0.00	2.50	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00
Netherlands	10.00	1.00	2.29	0.00	1.00	2.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	2.44
Switzerland	7.00	0.00	0.00	0.00	0.00	0.00	1.00	2.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pakistan	7.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	5.50
Japan	7.00	0.00	0.50	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00
Mexico	6.00	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hong Kong	6.00	0.00	1.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	2.00	0.00	0.00	0.00
Luxembourg	5.00	0.50	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00
Portugal	4.00	0.00	0.44	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11	0.72
Indonesia	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00
Colombia	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.60	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Serbia	4.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.50
Other		2.00	2.17	1.00	1.50	1.00	2.50	0.00	0.00	0.00	0.00	1.00	0.50	2.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	1.83	0.00	

Table 10: Heat Map based on Collaboration between Countries (Integer Count)

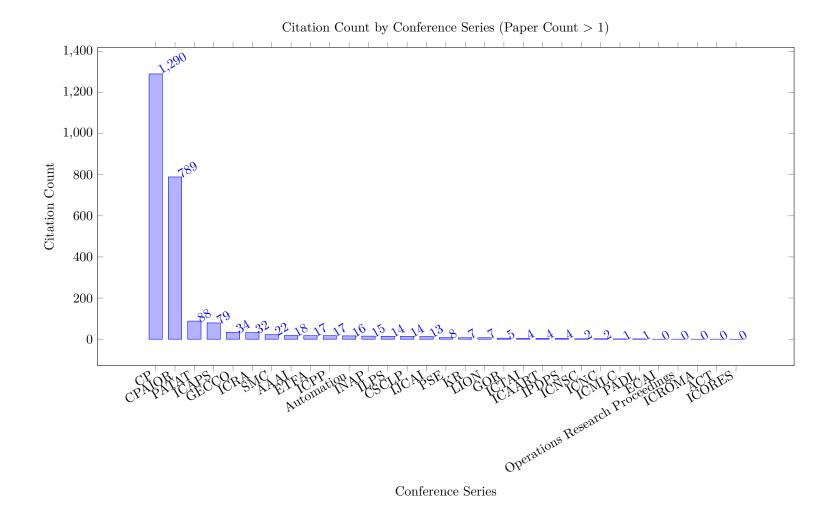
Table 10: Heat Map based on Conaboration between Countries (Integer Count)																											
From/To Total	Total	0.00 United States	00.401	00.89 Germany	00.45 Canada	28.00 Italy	o. O Australia	21. O United Kingdom	under No. 100	37.00 Belgium	00.98 Turkey	00.98 Norway	00.98 Oenmark	00 Netherlands	uise Spain 34.00	00.00 Poland	00.87 Switzerland	China	guoy guoH 500 Koon Suo	00.95 Ireland	00.95 Austria	23.00 Finland	op. Wacao 22.00	n.a.d 21.00	21.00 Cyprus	13.00 Iran	Other
United States	120.00	0.00	16.00	7.00	13.00	5.00	5.00	3.00	6.00	3.00	6.00	1.00	5.00	5.00	1.00	1.00	1.00	7.00	2.00	6.00	1.00	2.00	1.00	1.00	1.00	4.00	17.00
France	104.00	16.00	0.00	6.00	7.00	3.00	3.00	5.00	12.00	5.00	1.00	6.00	2.00	2.00	1.00	2.00	1.00	2.00	1.00	7.00	1.00	1.00	1.00	1.00	1.00	1.00	16.00
Germany	68.00	7.00	6.00	0.00	6.00	3.00	8.00	2.00	2.00	1.00	1.00	1.00	3.00	2.00	2.00	2.00	2.00	0.00	1.00	1.00	3.00	1.00	1.00	1.00	1.00	1.00	10.00
Canada	64.00	13.00	7.00	6.00	0.00	2.00	2.00	1.00	1.00	2.00	3.00	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	4.00	1.00	1.00	1.00	1.00	1.00	3.00	6.00
Italy	58.00	5.00	3.00	3.00	2.00	0.00	8.00	4.00	2.00	3.00	2.00	3.00	1.00	1.00	3.00	1.00	5.00	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	0.00	3.00
Australia	57.00	5.00	3.00	8.00	2.00	8.00	0.00	3.00	1.00	1.00	2.00	2.00	3.00	3.00	2.00	1.00	1.00	1.00	2.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
United Kingdom	51.00	3.00	5.00	2.00	1.00	4.00	3.00	0.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	3.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	0.00	8.00
Sweden	47.00	6.00	12.00	2.00	1.00	2.00	1.00	2.00	0.00	3.00	1.00	2.00	1.00	1.00	1.00	1.00	3.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	2.00
Belgium	37.00	3.00	5.00	1.00	2.00	3.00	1.00	2.00	3.00	0.00	1.00	1.00	1.00	2.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	3.00
Turkey	36.00	6.00	1.00	1.00	3.00	2.00	2.00	2.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Norway	36.00	1.00	6.00	1.00	1.00	3.00	2.00	2.00	2.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	5.00
Denmark	36.00	5.00	2.00	3.00	1.00	1.00	3.00	2.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	5.00	1.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Netherlands	34.00	5.00	2.00	2.00	1.00	1.00	3.00	1.00	1.00	2.00	1.00	1.00	1.00	0.00	1.00	2.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	2.00
Spain	34.00	1.00	1.00	2.00	2.00	3.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	8.00
Poland	30.00	1.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	5.00	2.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	2.00
Switzerland	28.00	1.00	1.00	2.00	1.00	5.00	1.00	1.00	3.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00
China	28.00	7.00	2.00	0.00	1.00	1.00	1.00	3.00	0.00	0.00	2.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	8.00
Hong Kong	27.00	2.00	1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	3.00
Ireland	26.00	6.00	7.00	1.00	4.00	1.00	1.00	2.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00
Austria	25.00	1.00	1.00	3.00	1.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00	0.00
Finland	23.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00	0.00
Macao	22.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Peru	21.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00
Cyprus	21.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00
Iran	13.00	4.00	1.00	1.00	3.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00
Czech Republic	12.00	0.00	3.00	1.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00
South Korea	10.00	4.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00
Chile	9.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00
Brazil	9.00	2.00	2.00	1.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Singapore	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Taiwan	8.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00
Hungary	7.00	0.00	2.00	1.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Portugal	7.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00
Mexico	7.00	2.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	2.00
Luxembourg	6.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
Tunisia	6.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00
Argentina	5.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00
United Arab Emirates	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00
Pakistan	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00
Colombia	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00
Other		4.00	3.00	4.00	3.00	0.00	1.00	3.00	2.00	2.00	0.00	1.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

5 Conference Papers by Most Common Conference Series

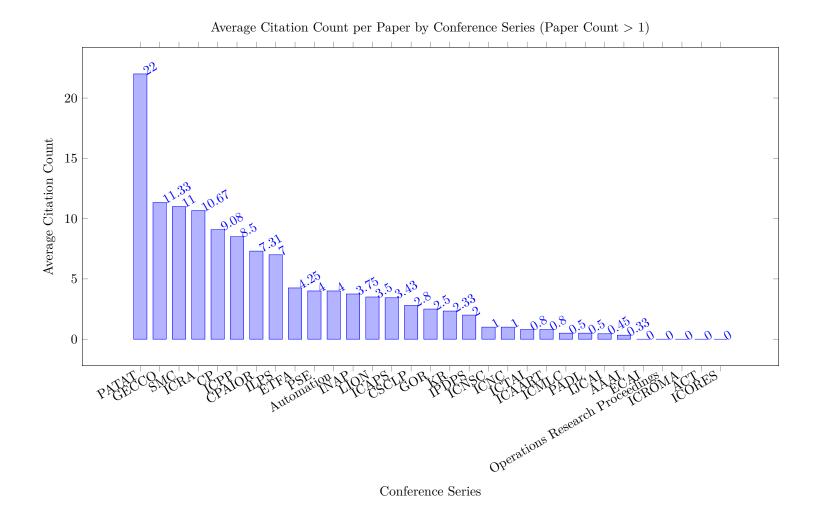




Section 5 CONFERENCE PAPERS BY MOST COMMON CONFERENCE SERIES

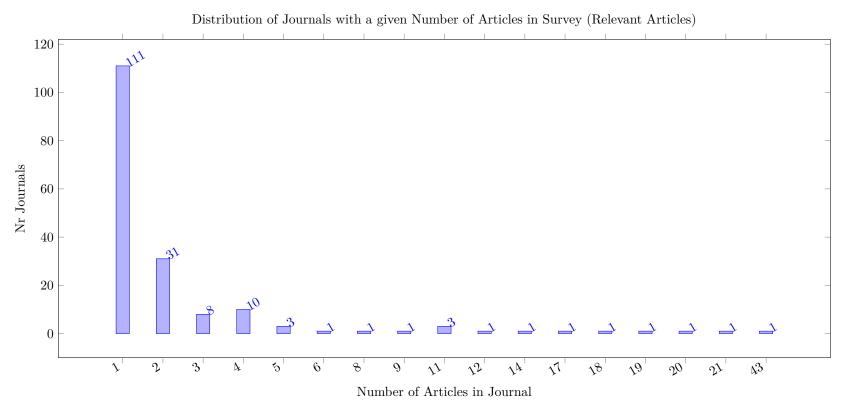


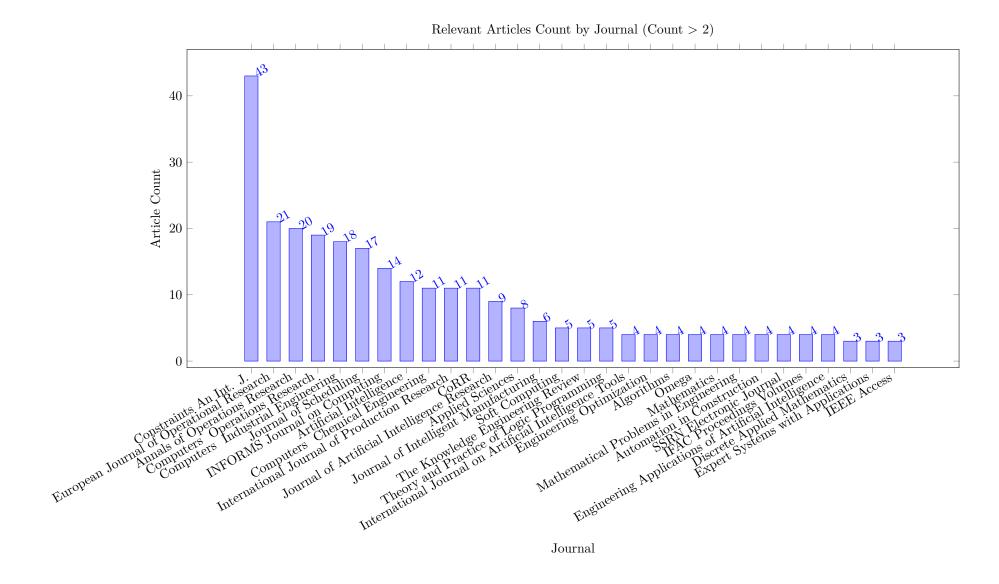
Section 5 CONFERENCE PAPERS BY MOST COMMON CONFERENCE SERIES

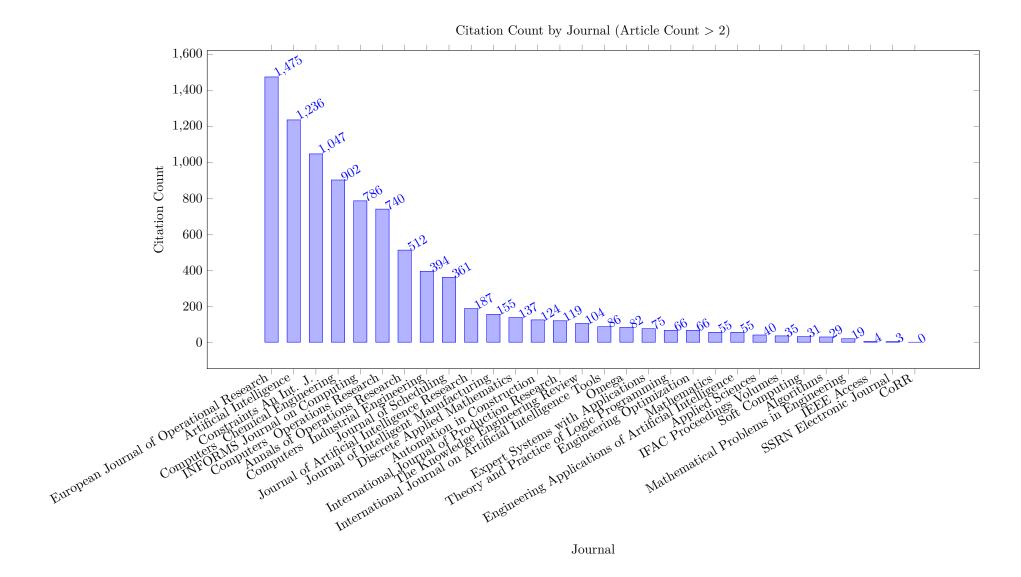


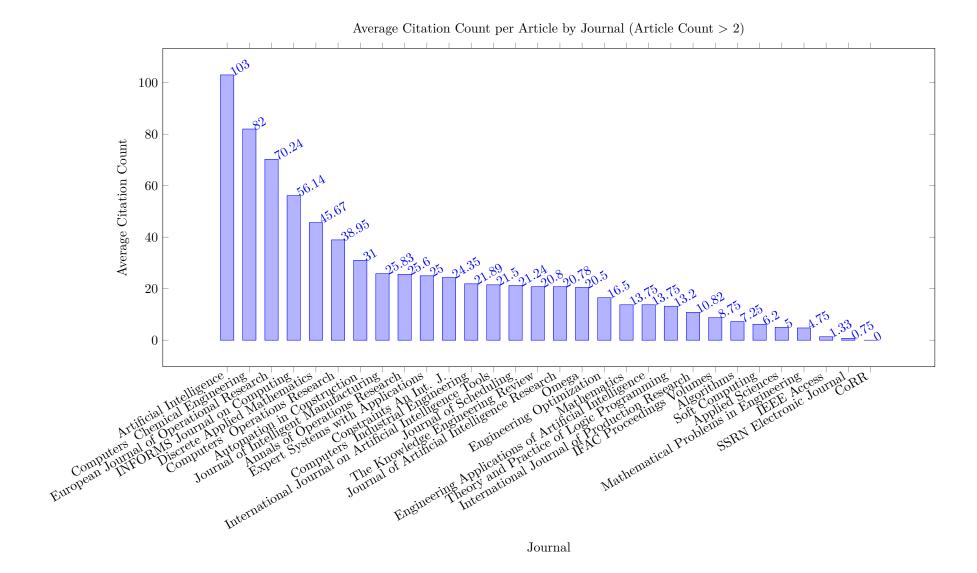
6 Journal Articles by Most Common Journals

6.1 Relevant Articles

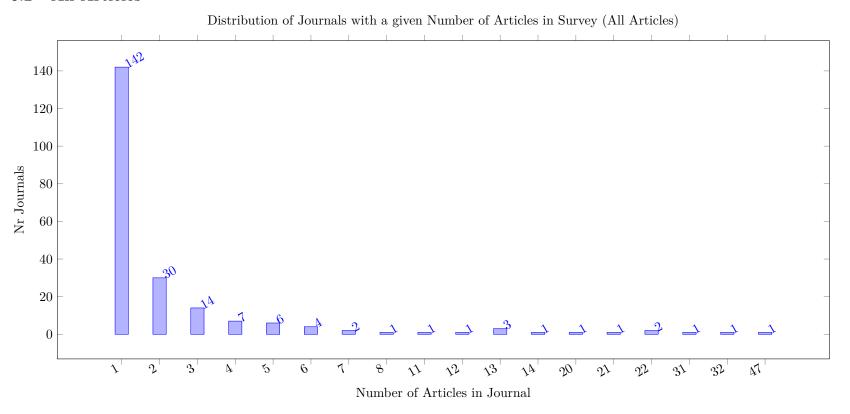


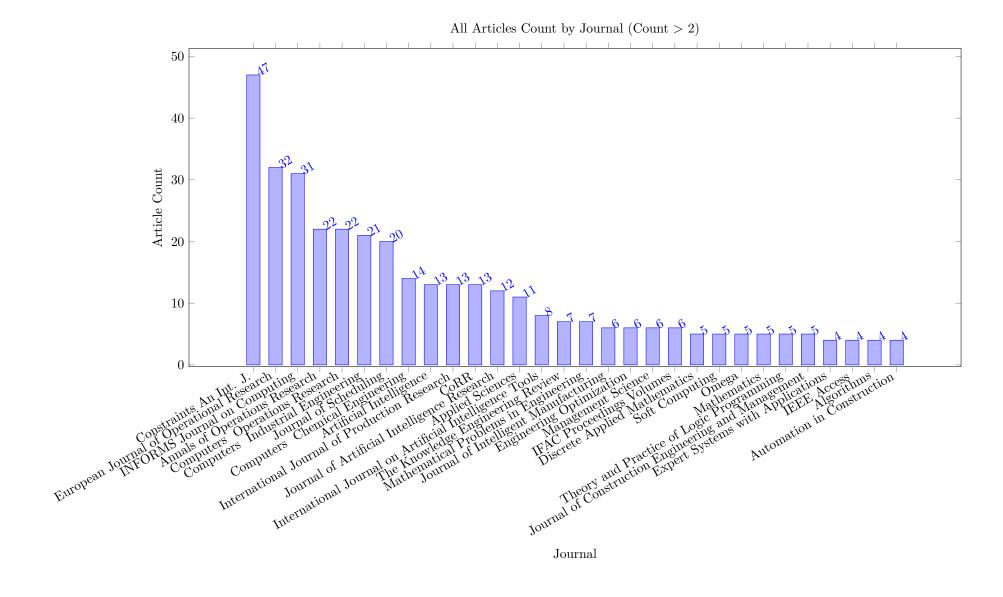


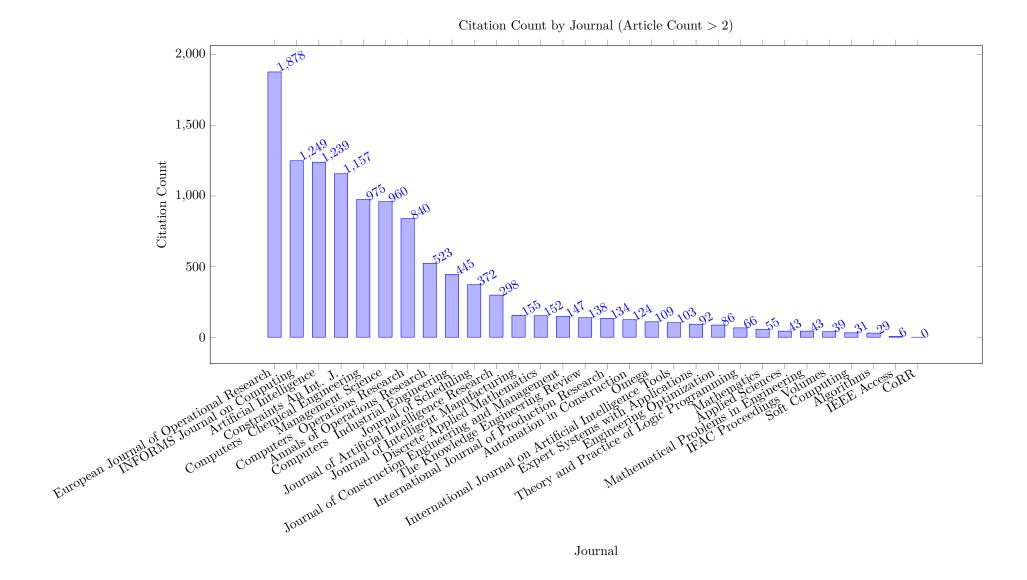


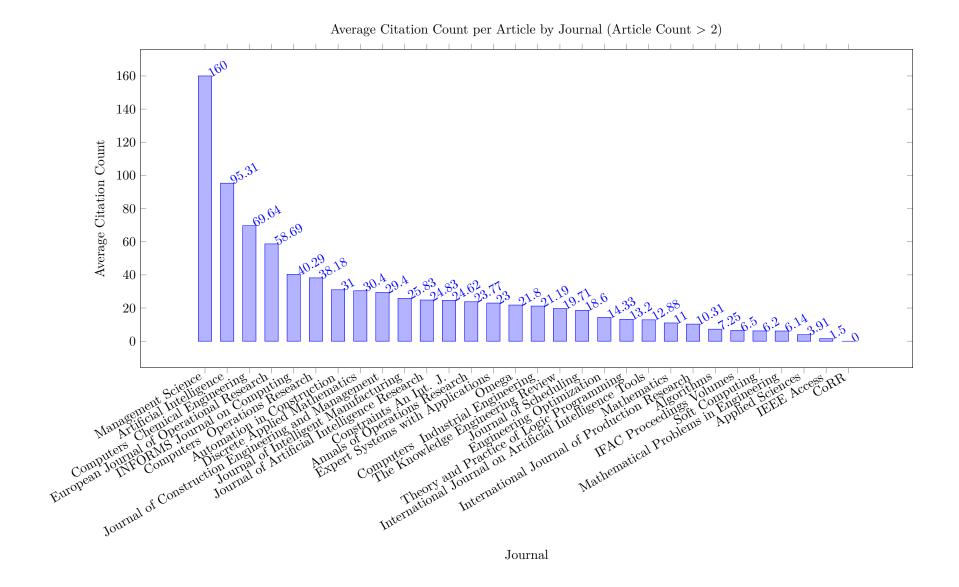


6.2 All Articles



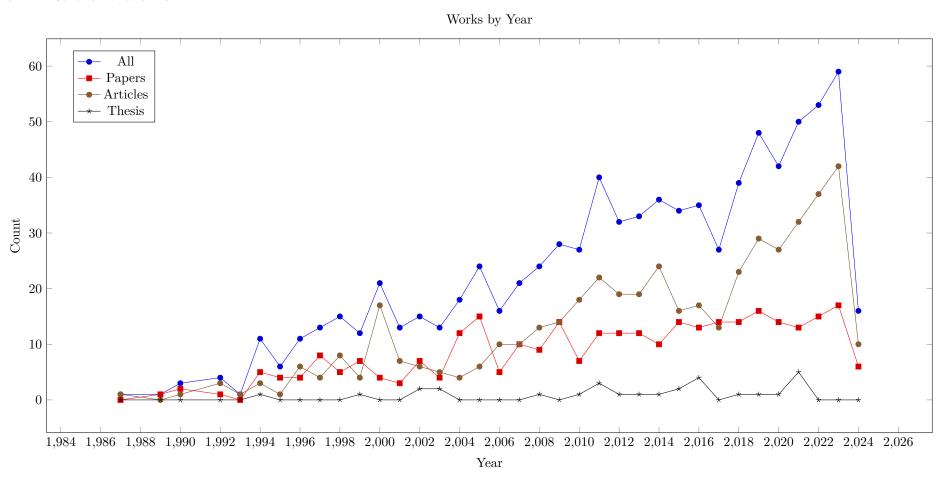




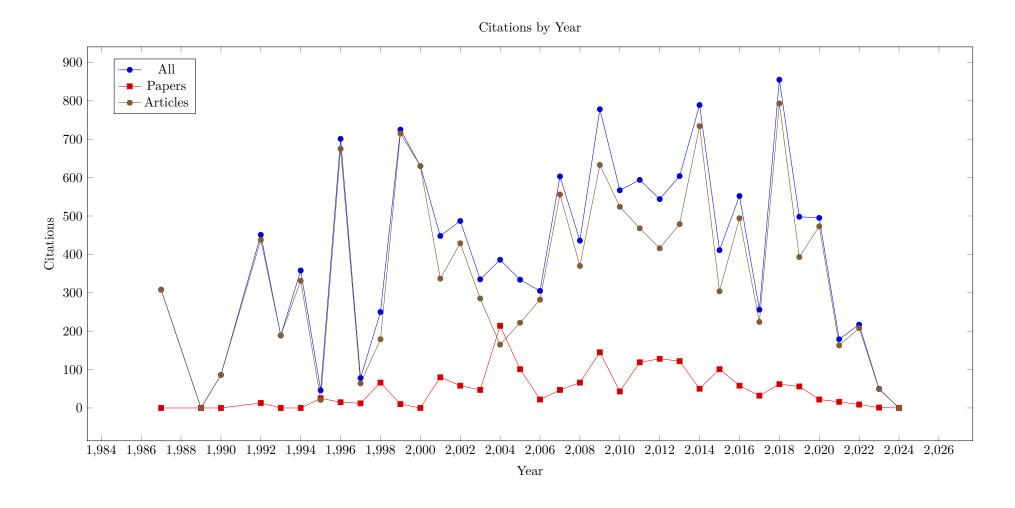


7 Works by Year

7.1 Relevant Works

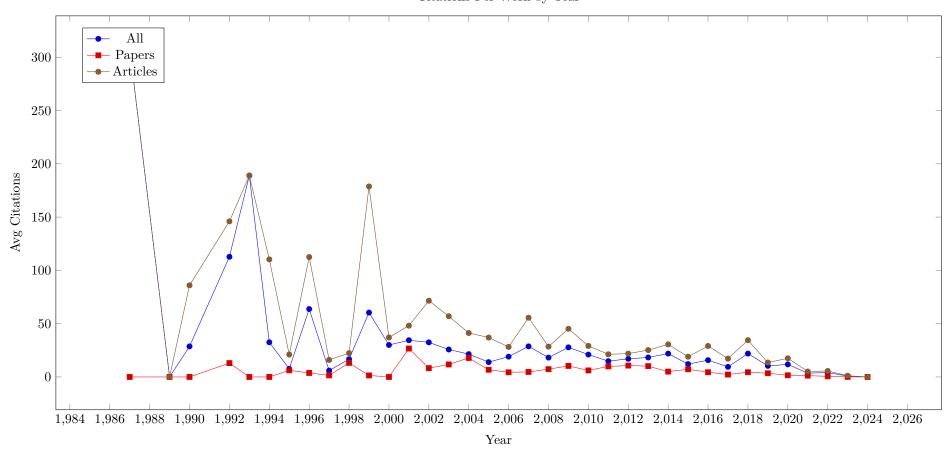


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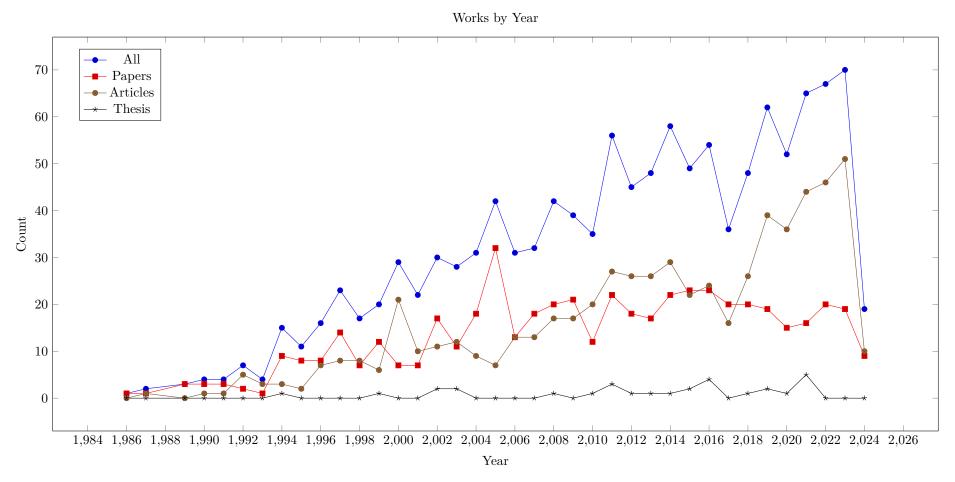
Citations Per Work by Year

Generated: July 31, 2024



All Works





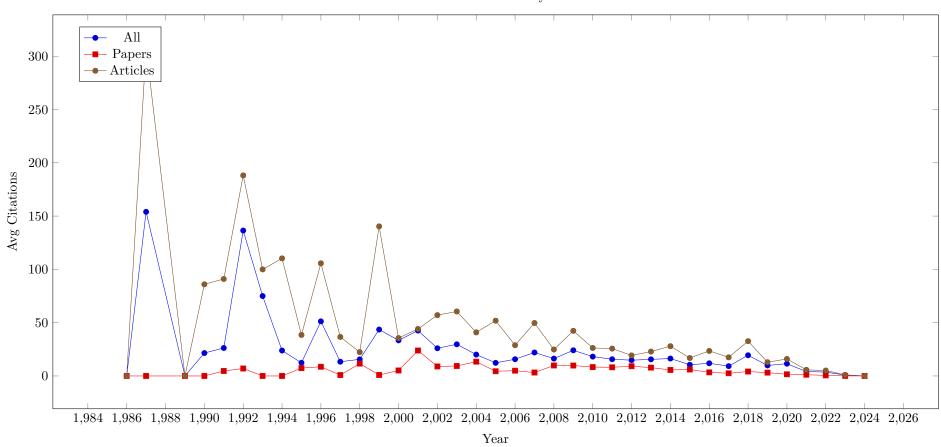
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Generated: July 31, 2024

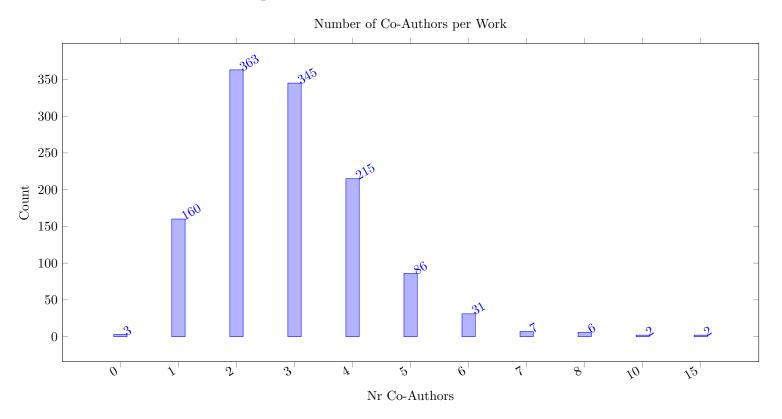
1,000 All -- Papers - Articles 900 800 700 600 Citations 500 400 300 200 100 0 Year

Citations Per Work by Year

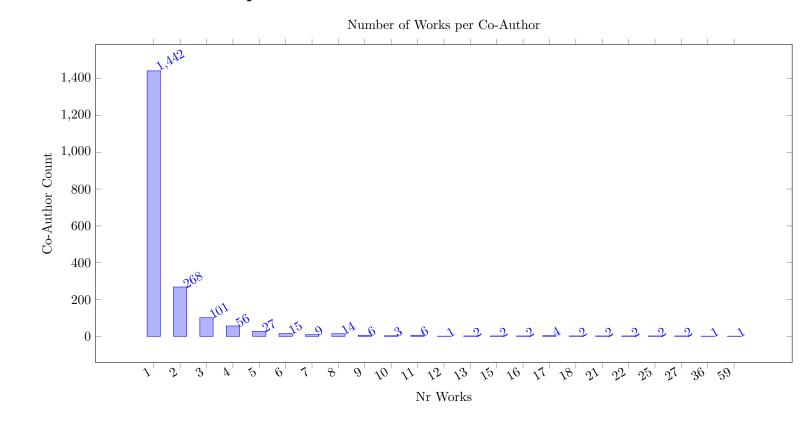
Generated: July 31, 2024



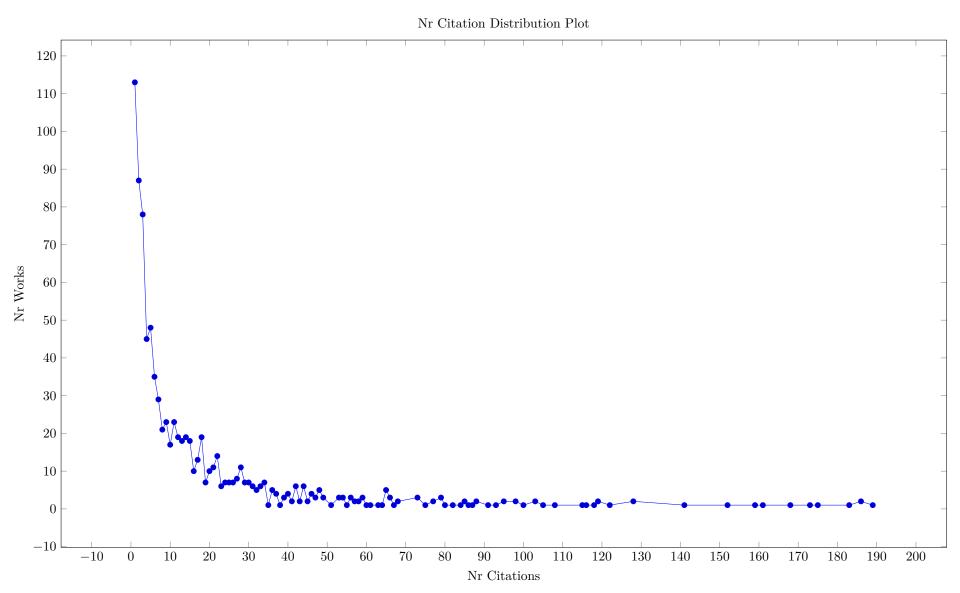
8 Number of Coauthors per Work



9 Number of Works per Author



10 Citation Distribution



11 Similarity Measures

The following distribution plot shows the similarity values between two works based on citations and references counts. If either work does not have citation and reference values, then the similarity is set to NaN. The total similarity count is the average of the similarity for citations and for references. As value we compute the ratio of non-shared references (citations) to the sum of individual references (citations). So both the citation and reference similarity range between zero and one, and the average ranges between zero and one. Low values are very rare, as they require both works to be citing the same papers, and being cited by the same papers. A larger value indicates that items are less similar according to this measure. In the plot we group values into 0.1 wide value bins, so an entry for 0.2 includes values from 0.15 to 0.25.

We observe that low values of this similarity are often found for two works by the same authors that are close in time, where we assumes that the bibliographies in both papers is based on the same literature survey. If neither paper is widely cited, the similarity value is low.

The vast majority of paper pairs has a distance close to one, as their references and citations do not overlap much.

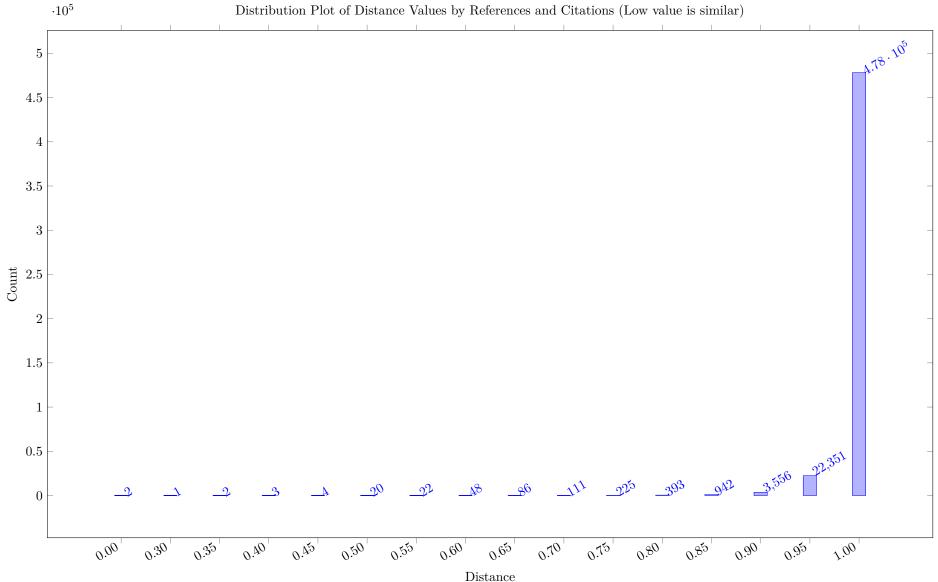
Table 11: Heat Map based on rounded DotProduct Similarity of Concepts (high = similar)

	Table 11: Heat Map based on rounded DotProduct Similarity of Concepts (nign = similar)																			
From/To	Total	ZarandiASC20	Schutt 11	YunusogluY22	abs-1902-09244	ZhuSZW23	VilimLS15	Siala15a	abs-2211-14492	ZeballosNH11	abs-1911-04766	02	ZhangBB22	YuraszeckMCCR23	ZeballosQH10	m Yuraszeck MPV22	m Zeballos H05	abs-2305-19888	nGI.	
Total		113256.00	85080.00	84173.00	84060.00	81928.00	81316.00	80550.00	79736.00	77330.00	76556.00	76074.00	75582.00	74879.00	72871.00	72608.00	71408.00	71039.00	70852.00	70597
Baptiste02	106901.00	330.00	266.00	201.00	173.00	169.00	172.00	226.00	161.00	172.00	148.00	135.00	159.00	163.00	149.00	193.00	137.00	144.00	147.00	159
•	105453.00	307.00	228.00	200.00	174.00	165.00	162.00	191.00	151.00	143.00	157.00	142.00	153.00		132.00	173.00	130.00	149.00		149
Beck99	96994.00	240.00	229.00	164.00	154.00	157.00	155.00	194.00	143.00	147.00	138.00	137.00	133.00	126.00	137.00	130.00	132.00	123.00	126.00	141
BartakSR10	91007.00	232.00	207.00	161.00	134.00	152.00	143.00	177.00	142.00	140.00	118.00	120.00	148.00	118.00	129.00	145.00	126.00	115.00	132.00	134
Dejemeppe16	90400.00	336.00	283.00	219.00	197.00	168.00	174.00	251.00	170.00	182.00	171.00	163.00	160.00	151.00	157.00	162.00	140.00	144.00	139.00	167
AwadMDMT22	86353.00	226.00	168.00	176.00	153.00	134.00	132.00	135.00	133.00	150.00	129.00	120.00	117.00		130.00	132.00	123.00	129.00		128
BeckDDF98	83862.00	223.00	160.00	158.00	146.00	136.00	124.00	161.00	126.00	145.00	111.00		116.00		127.00	115.00	130.00	98.00		112
AbreuN22	81468.00	229.00	146.00	167.00	137.00	142.00	124.00	128.00	137.00	104.00	108.00		116.00		111.00	161.00	105.00	133.00		117
AbreuPNF23	80946.00	232.00	155.00	176.00	146.00	135.00	114.00	125.00	124.00	113.00	105.00	123.00	108.00		107.00	161.00	105.00	126.00		118
AfsarVPG23	80841.00	190.00	137.00	144.00	138.00	128.00	121.00	125.00	132.00	108.00	118.00	117.00	110.00		117.00	133.00	107.00	102.00		111
AstrandJZ20	79802.00	181.00	153.00	131.00	131.00	122.00	127.00	150.00	108.00	110.00	109.00		122.00		101.00	119.00	102.00	105.00		99
ArtiguesLH13	78540.00	158.00	149.00	152.00	123.00	95.00	119.00	125.00	108.00	134.00	109.00	101.00	97.00		113.00	97.00	117.00	101.00		106
Groleaz21	76560.00	368.00	246.00	227.00	198.00	201.00	195.00	234.00	191.00	166.00	171.00	179.00	181.00		144.00	206.00	131.00	162.00		190
ArmstrongGOS21	76364.00	174.00	148.00	145.00	121.00	136.00	119.00	124.00	118.00	99.00	123.00	104.00	118.00		110.00	117.00	104.00	118.00		112
BartakSR08	75956.00	158.00	164.00	122.00	108.00	123.00	121.00	151.00	112.00	105.00	95.00		120.00		95.00	117.00	100.00	89.00		94
Fahimi16	75413.00	239.00	257.00	147.00	152.00	159.00	159.00	226.00	140.00	146.00	138.00	118.00	140.00		130.00	136.00	128.00	122.00		126
ColT22	75402.00	248.00	162.00	179.00	153.00	158.00	141.00	162.00	147.00	139.00	153.00	138.00	133.00	142.00	126.00	158.00	122.00	136.00		132
Caseau2001	75172.00	196.00	197.00	138.00	135.00	126.00	145.00	163.00	125.00	130.00	118.00		131.00		117.00	125.00	112.00	112.00		117
AbreuNP23	73784.00	203.00	131.00	157.00	131.00	137.00	116.00	119.00	124.00	102.00	94.00	107.00	112.00		100.00	150.00	92.00	125.00		102
Caballero19	73640.00	170.00	239.00	123.00	129.00	116.00	158.00	202.00	106.00	109.00	121.00	93.00	120.00		112.00	85.00	98.00	109.00		118
Akan2023	73053.00	240.00	152.00	135.00	142.00	102.00	111.00	105.00	109.00	109.00	100.00		88.00		104.00	103.00	106.00	91.00		130
BlazewiczDP96	73024.00	231.00	179.00	141.00	126.00	131.00	123.00	149.00	123.00	114.00	97.00	111.00	134.00	95.00	101.00	126.00	94.00	97.00		113
BajestaniB13	72366.00	181.00	120.00	128.00	115.00	117.00	110.00	110.00	102.00	114.00	89.00	100.00	96.00	86.00	89.00	99.00	86.00	86.00		105
AbreuAPNM21	71848.00	208.00	128.00	147.00	121.00	127.00	103.00	114.00	119.00	89.00	90.00		107.00		96.00	152.00	86.00	111.00		110
Godet21a	71824.00	256.00	263.00	166.00	155.00	154.00	177.00	248.00	157.00	132.00	159.00	130.00	149.00		130.00	147.00	124.00	130.00		155
BidotVLB09	71305.00	190.00	140.00	139.00	134.00	110.00	122.00	134.00	105.00	126.00	102.00	101.00	106.00		114.00	114.00	115.00	90.00		95
BeckF98 AlfieriGPS23	70820.00	177.00	142.00	122.00	115.00	122.00	113.00	142.00	109.00	100.00	102.00	108.00	97.00		97.00	96.00	99.00	91.00		109
Artigues2011	70443.00 70326.00	190.00 136.00	118.00 156.00	141.00 98.00	132.00 102.00	116.00 109.00	99.00 127.00	107.00 146.00	116.00 99.00	102.00 91.00	82.00 75.00	114.00 89.00	109.00 122.00		90.00 84.00	130.00 95.00	97.00 83.00	94.00 76.00		97 87
0		137.00	166.00	105.00	102.00	97.00	135.00	121.00	92.00	89.00	97.00		103.00		87.00	80.00	78.00	89.00		97
ArkhipovBL19	70263.00																			
Banaszak2014 BosiM2001	70135.00 69188.00	155.00 156.00	124.00 162.00	97.00 131.00	96.00 110.00	109.00 111.00	105.00 137.00	123.00 158.00	97.00 115.00	105.00 114.00	87.00 100.00		93.00 126.00		97.00 105.00	94.00 106.00	106.00 95.00	84.00 98.00		101
BeckF00	68980.00	146.00	167.00	105.00	108.00	110.00	117.00	156.00	99.00	106.00	93.00		107.00		92.00	92.00	94.00	76.00		
Brucker2002	68947.00	196.00	180.00	138.00	132.00	130.00	152.00	156.00	119.00	120.00	100.00		129.00		101.00	115.00	93.00	108.00		
Braune2022	67999.00	146.00	165.00	133.00	125.00	128.00	131.00	136.00	115.00	116.00	112.00	104.00	118.00		105.00	100.00	103.00	109.00		110
BonninMNE24	67857.00	172.00	159.00	122.00	113.00	112.00	119.00	130.00	104.00	98.00	110.00	99.00	112.00		99.00	131.00	99.00	103.00		109
BeckR03	67017.00	156.00	132.00	127.00	131.00	115.00	119.00	134.00	111.00	129.00	93.00		103.00	90.00	107.00	97.00	106.00	72.00		
BeckPS03	66776.00	151.00	138.00	120.00	122.00	106.00	116.00	131.00	104.00	115.00	91.00	92.00	99.00		107.00	96.00	107.00	86.00		85
Bit-Monnot23	66587.00	135.00	154.00	99.00	106.00	120.00	129.00	177.00	104.00	94.00	103.00		121.00		86.00	105.00	91.00	86.00		
ChenGPSH10	66515.00	163.00	164.00	109.00	101.00	121.00	127.00	149.00	110.00	120.00	96.00	96.00	113.00	97.00	102.00	106.00	102.00	82.00		
AntuoriHHEN20	66358.00	134.00	121.00	100.00	101.00	82.00	95.00	113.00	109.00	94.00	86.00		90.00		82.00	83.00	87.00	68.00		
Benedetti2008	66245.00	134.00	140.00	103.00	104.00	103.00	111.00	130.00	98.00	102.00	94.00	88.00	94.00	97.00	95.00	81.00	96.00	88.00		95
Other				78180.00		76537.00		74112.00						69994.00		67445.00		66584.00		

	Table 12: Heat Map based on 100*Cosine Similarity of Concepts (high = similar)																							
-		1											<i>J</i>	I					∞	-1				
		60	ro.	-2312-13682	abs-1901-07914		Ξ.		m Zeballos QH10			abs-1902-09244		~1	abs-2211-14492	=======================================	20	æ	abs-2305-19888	abs-2306-05747	6			I
		Zeballos M09	m Zeballos H05	Ξ.	0	15	ZhangYW21	60	QE		05	ő		ZhangBB22	7	m Zeballos NH11	sonB08	ZibranR11a	110	10.1	WikarekS19	15	VilimBC05	I
		So	OS	312	901	\mathbf{S}	5.	20	oso.	0	5.50	902	ro.	ΞĘ	211	os	ä	ਮੁ	305	908	ek	Ξ	BC	1
	al	all	all	-25	-15	VilimLS1	an a	Xujun2009	all	ZouZ20	hang2005	-15	Wolf05	in a	-22	all	tsc	raı	-25	-25	, yar	ZhouGL15	[m]	Other
From/To	Total	Zeb	Zeb	aps	rps	Ž.	Zha	, n	Zeb	201	Zha	sqı	Νo	Zhë	sqı	Zeb	Na	Zib	ps	sq		Sho	/il	1 7
Total		556.54			541.13	537.50	536.32		532.84	531.85	531.11		,	523.04	522.80	522.51	521.07	520.49					513.57	1
-		<u> </u>																						
Banaszak2014	554.92		0.76	0.59	0.67	0.65	0.63	0.76	0.66	0.62	0.66	0.56	0.68	0.60	0.59	0.66	0.64	0.60	0.57	0.57	0.65	0.65		540.69
Banaszak2008	551.61	0.80	0.77	0.60	0.70	0.64	0.59	0.80	0.70	0.59	0.67	0.56	0.71	0.59	0.62	0.66	0.67	0.62	0.56	0.59	0.64	0.63		537.23
Bartak02a	547.35	0.62	0.66	0.60	0.65	0.70	0.61	0.68	0.62	0.59	0.70	0.57	0.66	0.61	0.59	0.59	0.63	0.50	0.53	0.57	0.67	0.56		533.73
BartakSR08 BeckPS03	545.96 534.73	0.60 0.73	$0.66 \\ 0.78$	$0.57 \\ 0.57$	$0.60 \\ 0.64$	$0.68 \\ 0.73$	0.63	$0.70 \\ 0.72$	0.59 0.70	$0.56 \\ 0.55$	0.80	0.58 0.73	$0.70 \\ 0.74$	0.71 0.66	$0.63 \\ 0.65$	$0.60 \\ 0.74$	$0.67 \\ 0.73$	$0.52 \\ 0.49$	$0.56 \\ 0.60$	$0.59 \\ 0.64$	$0.70 \\ 0.72$	$0.65 \\ 0.64$	$0.76 \\ 0.71$	531.90 519.87
AstrandJZ20	534.42	0.73	0.63	0.61	0.56	0.73	0.67	0.72	0.70	0.53	0.70	0.75	0.62	0.68	0.57	0.74	0.73	0.43	0.62	0.64	0.63	0.67	0.68	520.79
AfsarVPG23	533.85	0.62	0.65	0.54	0.53	0.63	0.74	0.56	0.68	0.59	0.52	0.69	0.62	0.61	0.69	0.58	0.69	0.50	0.59	0.67	0.55	0.60	0.58	520.44
ArkhipovBL19	525.76	0.54	0.54	0.51	0.53	0.80	0.65	0.55	0.57	0.49	0.63	0.59	0.71	0.64	0.54	0.54	0.60	0.41	0.59	0.55	0.72	0.54	0.63	512.93
AstrandJZ18	525.69	0.67	0.66	0.69	0.69	0.62	0.52	0.69	0.64	0.56	0.54	0.52	0.60	0.53	0.51	0.53	0.56	0.64	0.55	0.51	0.54	0.56	0.59	512.78
Benedetti2008	522.36	0.66	0.69	0.60	0.61	0.68	0.64	0.71	0.65	0.59	0.75	0.60	0.78	0.61	0.60	0.64	0.64	0.50	0.60	0.61	0.66	0.64	0.70	508.19
AngelsmarkJ00	519.07	0.63	0.53	0.48	0.60	0.58	0.48	0.64	0.49	0.50	0.68	0.39	0.60	0.51	0.52	0.56	0.56	0.54	0.44	0.47	0.57	0.54	0.53	507.22
ArtiguesLH13	517.68	0.68	0.71	0.58	0.52	0.62	0.49	0.66	0.65	0.57	0.68	0.61	0.63	0.53	0.56	0.71	0.52	0.59	0.58	0.49	0.53	0.57	0.60	504.61
Astrand0F21	517.38	0.57	0.64	0.64	0.64	0.65	0.68	0.59	0.59	0.49	0.50	0.56	0.59	0.66	0.55	0.51	0.64	0.46	0.59	0.63	0.63	0.54	0.63	504.37
Beck07	517.27	0.64	0.64	0.56	0.56	0.73	0.71	0.73	0.58	0.55	0.64	0.64	0.68	0.73	0.67	0.61	0.85	0.60	0.52	0.68	0.65	0.60	0.68	503.04
AbidinK20	510.43	0.55	0.55	0.56	0.50	0.52	0.58	0.42	0.60	0.70	0.41	0.56	0.45	0.51	0.49	0.56	0.51	0.64	0.51	0.46	0.49	0.46	0.51	498.92
AalianPG23	510.42	0.62	0.59	0.73	0.59	0.59	0.54	0.63	0.59	0.56	0.47	0.58	0.56	0.52	0.44	0.48	0.55	0.61	0.61	0.56	0.49	0.50	0.56	498.05
BeckDDF98 Astrand2020	510.18 510.15	0.72	0.73	$0.57 \\ 0.64$	$0.63 \\ 0.62$	0.59	0.63 0.67	$0.67 \\ 0.66$	$0.67 \\ 0.62$	$0.55 \\ 0.53$	0.73	$0.67 \\ 0.57$	$0.61 \\ 0.64$	$0.58 \\ 0.61$	0.60	0.71	$0.62 \\ 0.61$	$0.56 \\ 0.53$	$0.52 \\ 0.59$	$0.57 \\ 0.58$	$0.65 \\ 0.63$	0.58 0.53	$0.65 \\ 0.64$	496.39 497.04
Bartak02	506.42	0.67	0.70	0.53	0.59	0.59 0.60	0.67	0.69	0.02	0.55	0.54	0.37	0.59	0.51	$0.51 \\ 0.49$	0.54 0.60	0.51	0.56	0.39	0.38	0.66	0.53	0.65	494.09
BeckFW11	505.78	0.61	0.62	0.63	0.60	0.74	0.47	0.67	0.63	0.33	0.70	0.43	0.70	0.75	0.49	0.55	0.93	0.53	0.44	0.44	0.69	0.62	0.65	491.35
Alaka21	504.55	0.53	0.60	0.56	0.57	0.52	0.63	0.53	0.60	0.68	0.47	0.53	0.51	0.53	0.49	0.46	0.48	0.52	0.55	0.48	0.50	0.54	0.54	492.74
Balduccini2017	502.57	0.58	0.55	0.52	0.58	0.61	0.48	0.62	0.47	0.54	0.61	0.47	0.54	0.49	0.54	0.54	0.58	0.50	0.46	0.50	0.60	0.55	0.55	490.67
AwadMDMT22	502.14	0.61	0.66	0.53	0.47	0.61	0.65	0.55	0.66	0.58	0.59	0.68	0.68	0.57	0.61	0.71	0.58	0.51	0.66	0.58	0.56	0.57	0.60	488.92
Abuwarda2019	502.11	0.58	0.58	0.52	0.49	0.56	0.71	0.64	0.63	0.74	0.58	0.55	0.56	0.48	0.52	0.53	0.48	0.64	0.56	0.47	0.45	0.49	0.48	489.86
BartakSR10	498.06	0.58	0.64	0.47	0.60	0.62	0.60	0.58	0.62	0.51	0.77	0.56	0.70	0.68	0.61	0.62	0.59	0.44	0.55	0.54	0.68	0.63	0.69	484.78
AkramNHRSA23	497.86	0.54	0.56	0.57	0.63	0.55	0.62	0.56	0.55	0.57	0.52	0.47	0.57	0.50	0.63	0.43	0.59	0.57	0.59	0.58	0.43	0.58	0.46	485.82
Artigues2011	497.76	0.53	0.54	0.44	0.51	0.71	0.63	0.57	0.52	0.42	0.62	0.55	0.63	0.72	0.55	0.52	0.63	0.38	0.47	0.53	0.70	0.54	0.70	485.36
Astrand21	497.43	0.54	0.57	0.53	0.49	0.61	0.61	0.54	0.55	0.51	0.52	0.63	0.55	0.61	0.56	0.55	0.57	0.47	0.62	0.57	0.55	0.66	0.61	485.01
Adelgren2023	494.06	0.52	0.53	0.56	0.54	0.54	0.57	0.55	0.51	0.46	0.54	0.48	0.60	0.57	0.53	0.52	0.56	0.41	0.65	0.53	0.55	0.56	0.51	482.28
AlakaP23	493.67	0.52	0.55	0.51	0.61	0.51	0.63	0.53	0.58	0.67	0.47	0.51	0.45	0.50	0.45	0.49	0.45	0.52	0.51	0.43	0.53	0.49	0.51	482.25
AlesioBNG15 Bocewicz2009	493.37 493.03	0.55	0.53 0.72	$0.51 \\ 0.54$	$0.56 \\ 0.65$	0.54 0.64	0.60 0.59	$0.50 \\ 0.71$	$0.56 \\ 0.61$	$0.66 \\ 0.59$	$0.54 \\ 0.67$	$0.48 \\ 0.54$	0.58 0.74	0.51 0.60	0.53 0.55	0.54	$0.55 \\ 0.64$	$0.64 \\ 0.59$	$0.56 \\ 0.54$	0.52 0.56	$0.49 \\ 0.67$	$0.56 \\ 0.58$	$0.48 \\ 0.71$	481.39 479.21
BockmayrP06	492.62	0.70	0.65	0.73	0.70	0.65	0.49	0.62	0.64	0.56	0.63	0.55	0.60	0.54	0.54	0.58	0.59	0.61	0.60	0.55	0.58	0.60	0.71	479.33
Beck99	491.91	0.60	0.62	0.51	0.57	0.62	0.64	0.57	0.60	0.55	0.71	0.59	0.65	0.56	0.57	0.60	0.63	0.50	0.55	0.56	0.60	0.55	0.69	478.87
Beck06	489.39	0.61	0.65	0.57	0.59	0.64	0.63	0.70	0.56	0.40	0.61	0.61	0.65	0.67	0.67	0.60	0.84	0.47	0.49	0.66	0.68	0.64	0.61	475.82
BeckF00a	488.66	0.66	0.61	0.49	0.56	0.64	0.54	0.69	0.56	0.52	0.73	0.49	0.70	0.56	0.52	0.60	0.63	0.52	0.46	0.51	0.64	0.55	0.80	475.67
BeckF98	487.66	0.55	0.62	0.46	0.60	0.61	0.68	0.57	0.58	0.51	0.70	0.59	0.66	0.55	0.59	0.55	0.60	0.42	0.55	0.58	0.63	0.51	0.66	474.89
BeniniLMR11	485.31	0.65	0.66	0.62	0.61	0.65	0.56	0.61	0.64	0.65	0.58	0.57	0.62	0.56	0.52	0.63	0.56	0.58	0.58	0.53	0.56	0.49	0.60	472.29
BenderWS21	485.18	0.68	0.69	0.70	0.68	0.65	0.66	0.74	0.65	0.61	0.56	0.63	0.65	0.53	0.52	0.57	0.63	0.63	0.70	0.59	0.60	0.56	0.58	471.35
CarchraeB09	482.30	0.69	0.68	0.71	0.67	0.80	0.70	0.71	0.64	0.53	0.63	0.65	0.73	0.75	0.71	0.65	0.85	0.54	0.61	0.76	0.67	0.62	0.67	467.32
Alesio2013	482.26	0.57	0.56	0.52	0.57	0.52	0.55	0.50	0.58	0.57	0.58	0.45	0.64	0.51	0.52	0.53	0.55	0.61	0.57	0.53	0.49	0.56	0.47	470.31
AbreuN22	482.13	0.48	0.58	0.56	0.48	0.59	0.66	0.45	0.58	0.50	0.39	0.62	0.54	0.58	0.64	0.50	0.62	0.41	0.70	0.63	0.55	0.65	0.51	469.91
Other		530.71	528.92	517.85	516.35	511.08	510.58	508.86	507.63	508.40	505.65	503.64	498.15	498.34	498.89	498.17	495.07	498.09	496.50	495.90	490.28	490.79	487.80	I

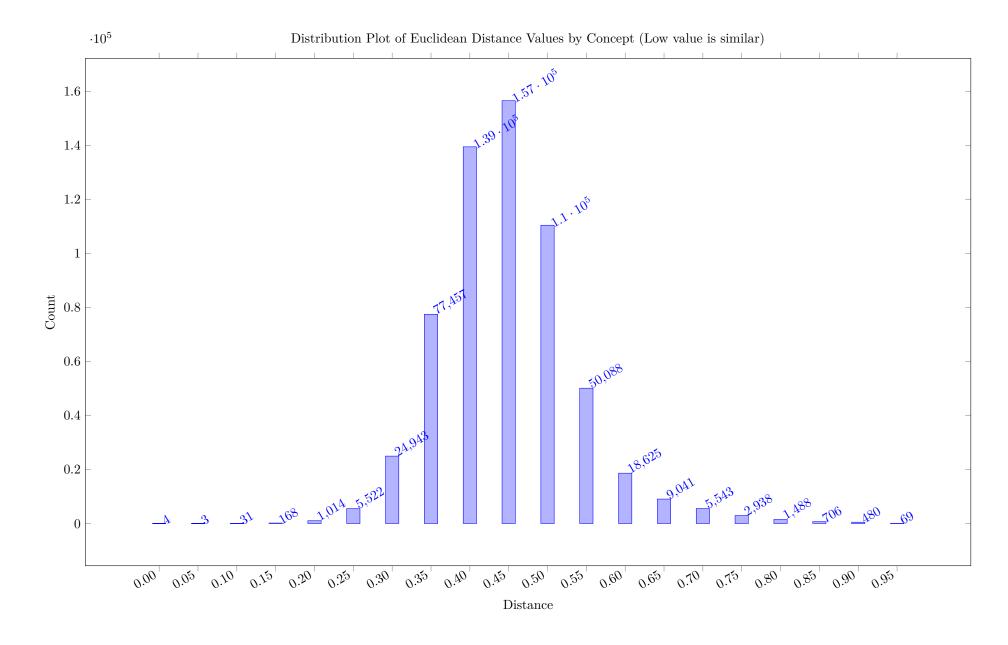
Section 11 SIMILARITY MEASURES

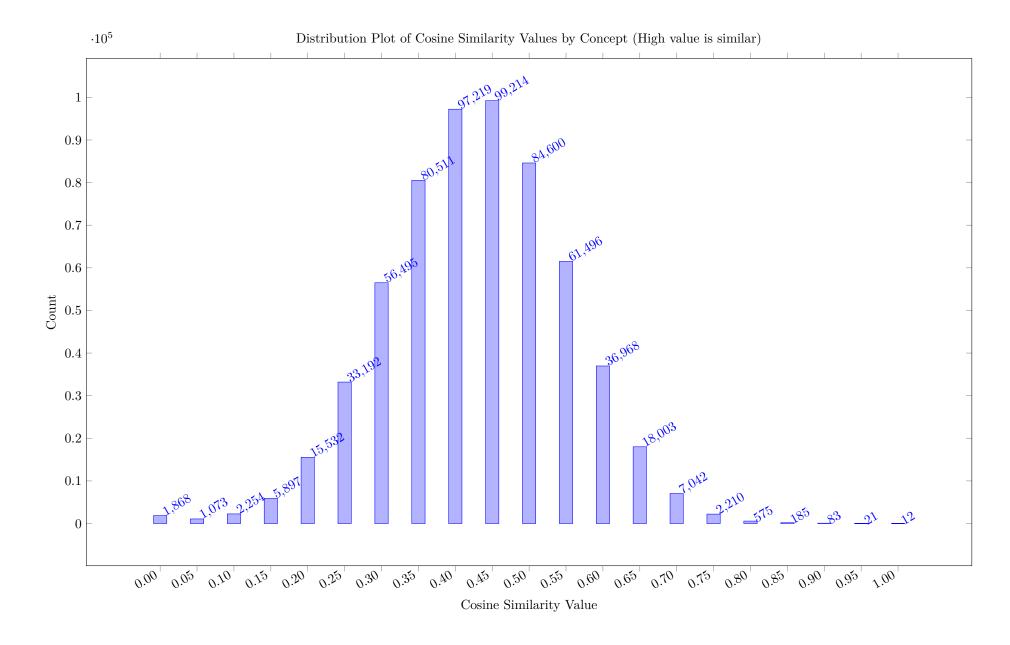
Distance



The similarity by concept uses the Euclidean distance between the feature vectors for two works. We translate the MatchLevel for each Concept into a linear

scale, and then calculate the distances as the square root of the sum of squared differences for each feature. The distribution plot below rounds the distances to integer values. Similarity values of this type are only calculated when both works have a local copy, from which we extract the features. If either work does not have a local copy, the similarity is set to be NaN.



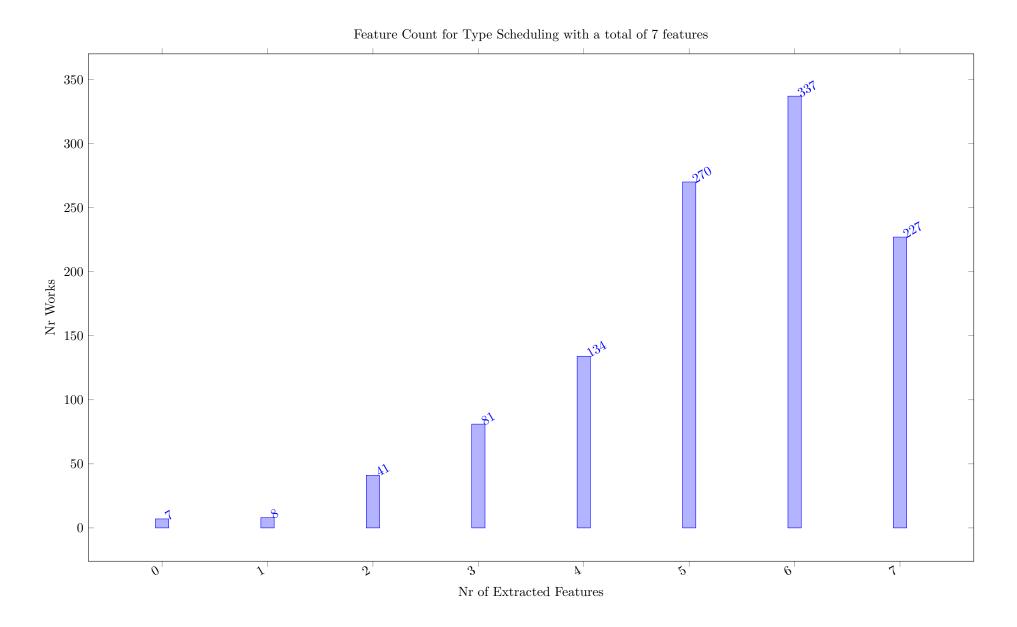


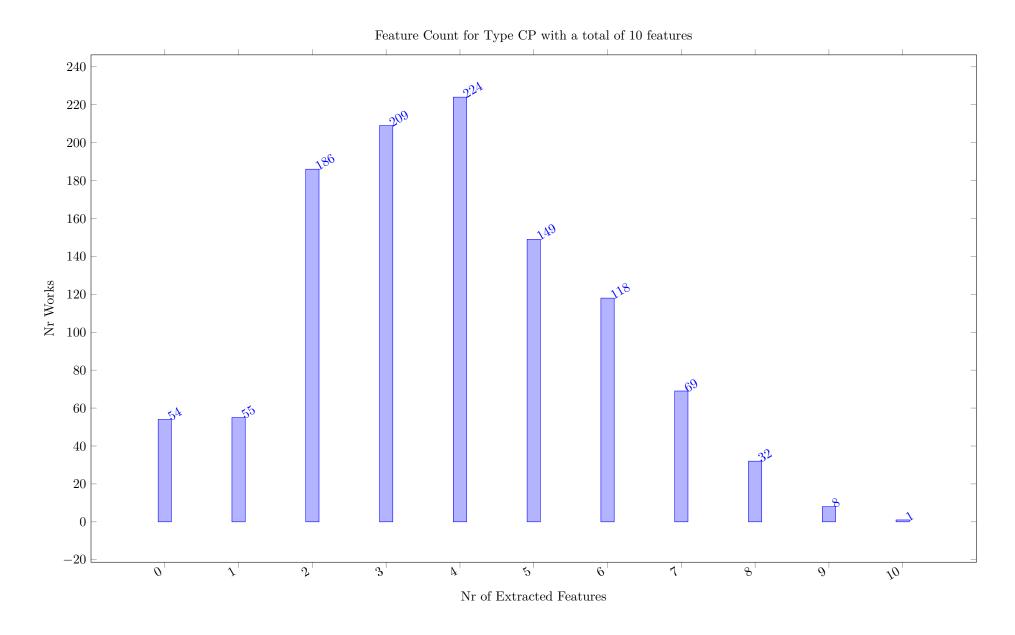
Section 11 SIMILARITY MEASURES 74

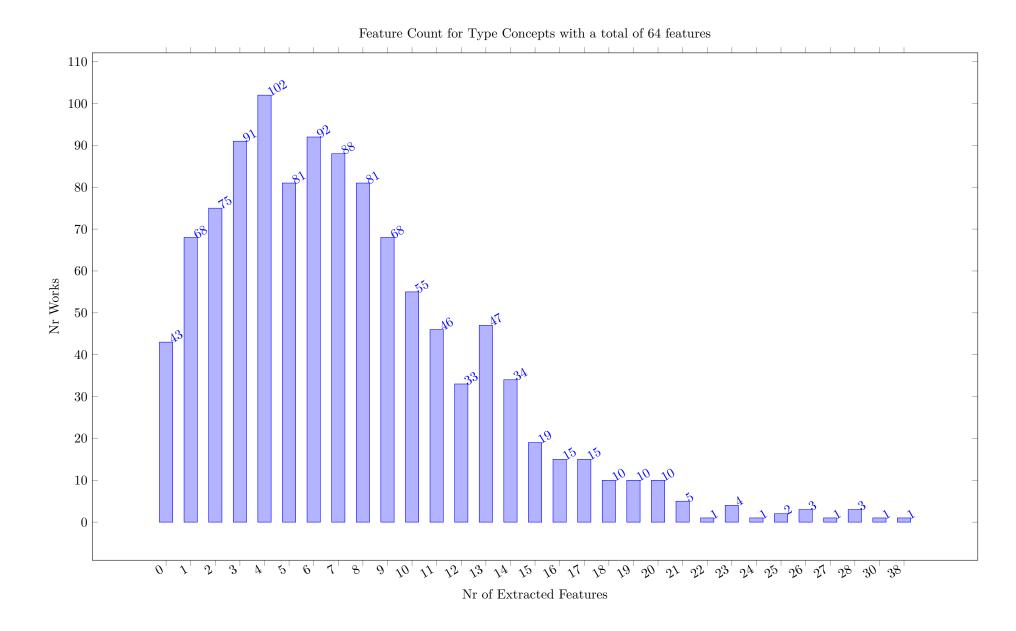
12 Concept Distribution

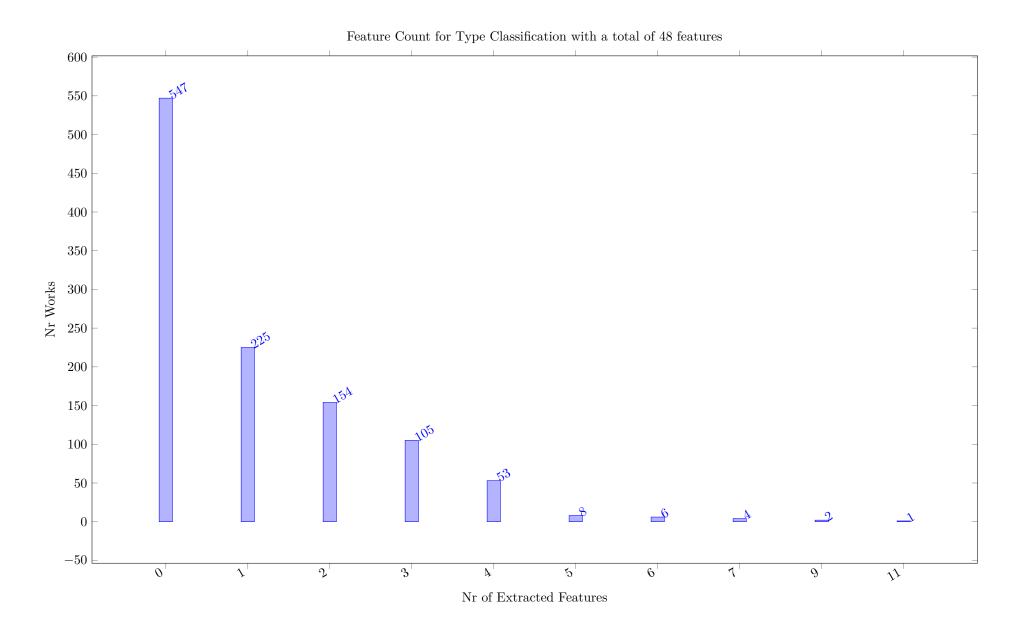
For each concept type, we count how many features are extracted by the individual works that do have a local copy, e.g. for which we can extract features. We can compare the number of features extracted to the number of concepts of a given type, which is stated in the title of the diagram.

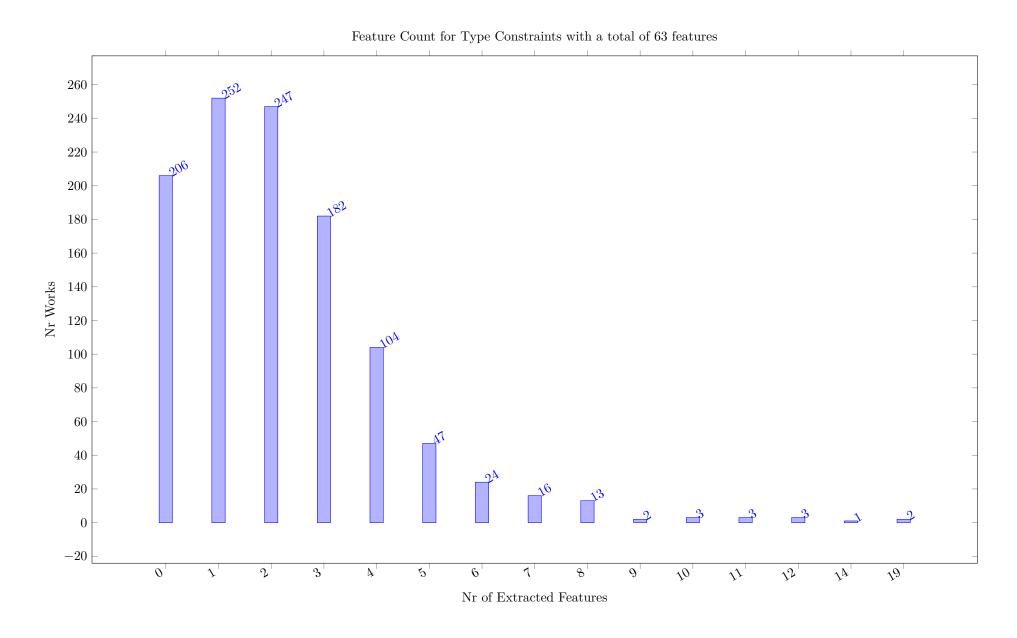
A high count indicates that a work covers many of the concepts of the given type, a low count might mean that our ontology does not have relevant concepts for that work.

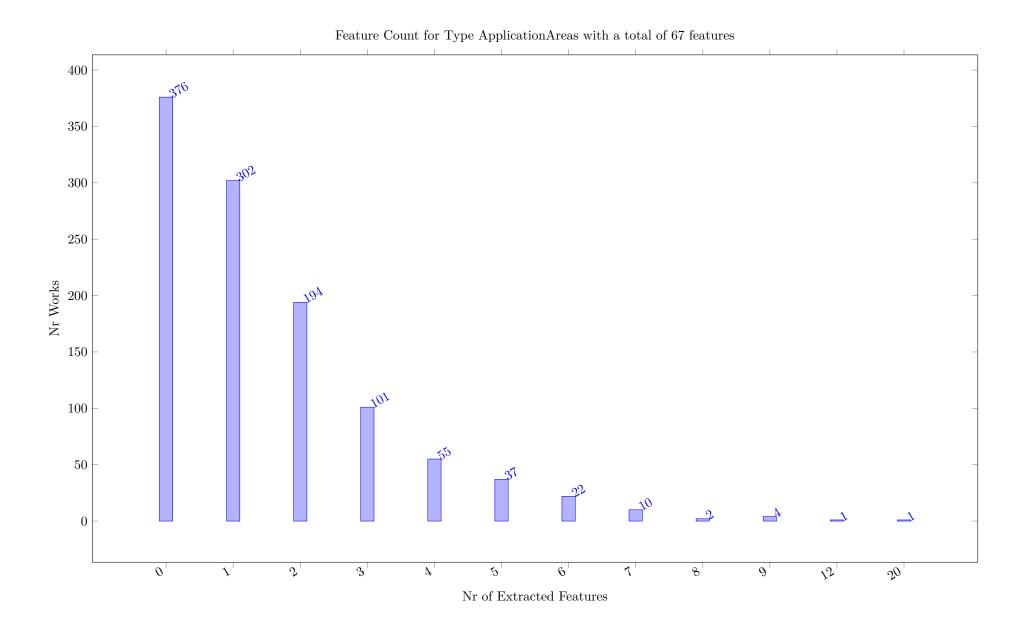


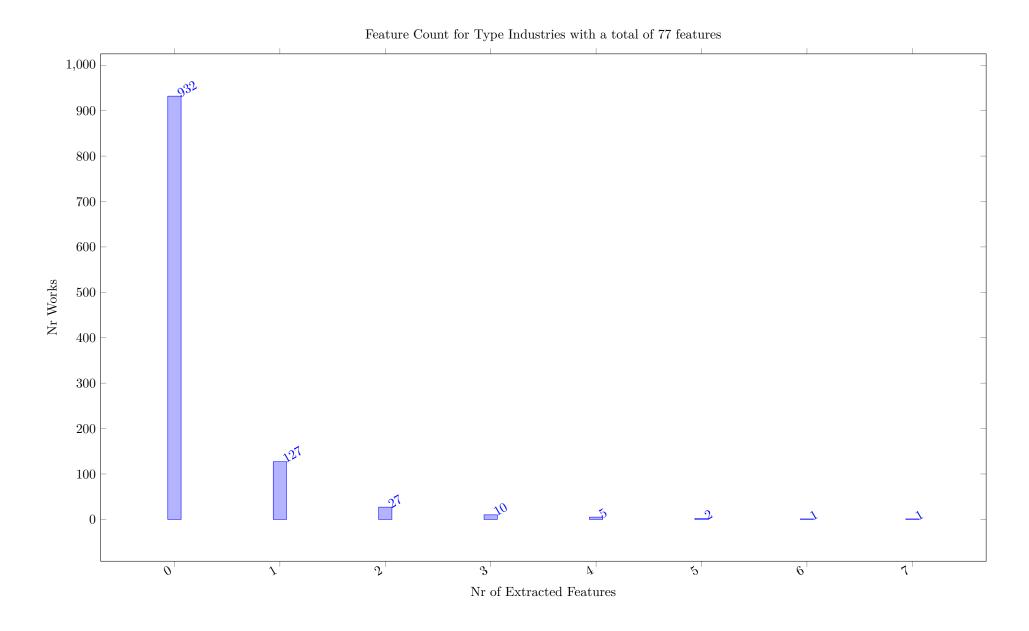


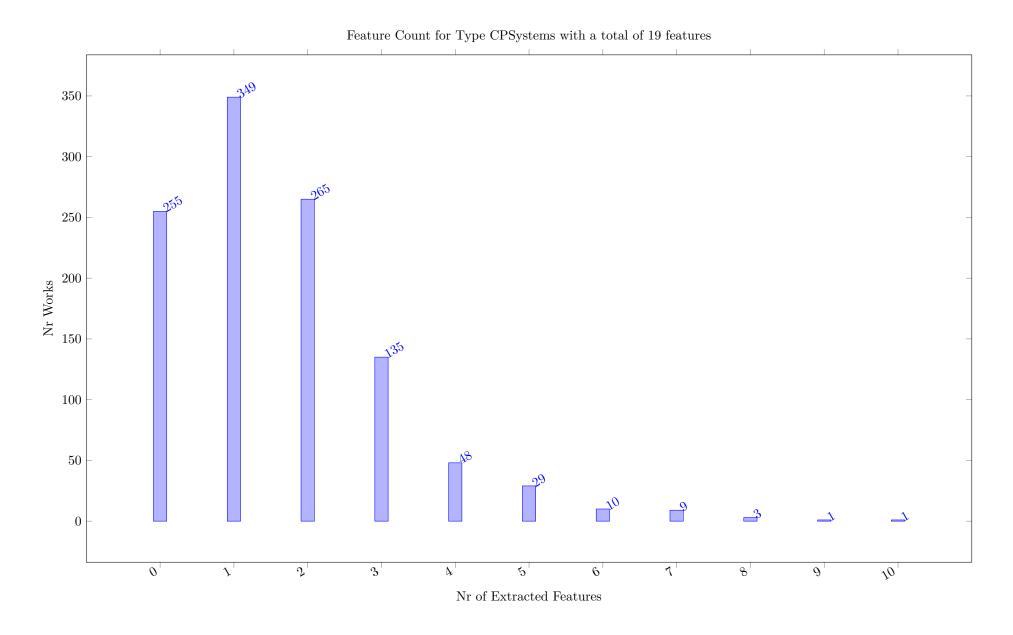


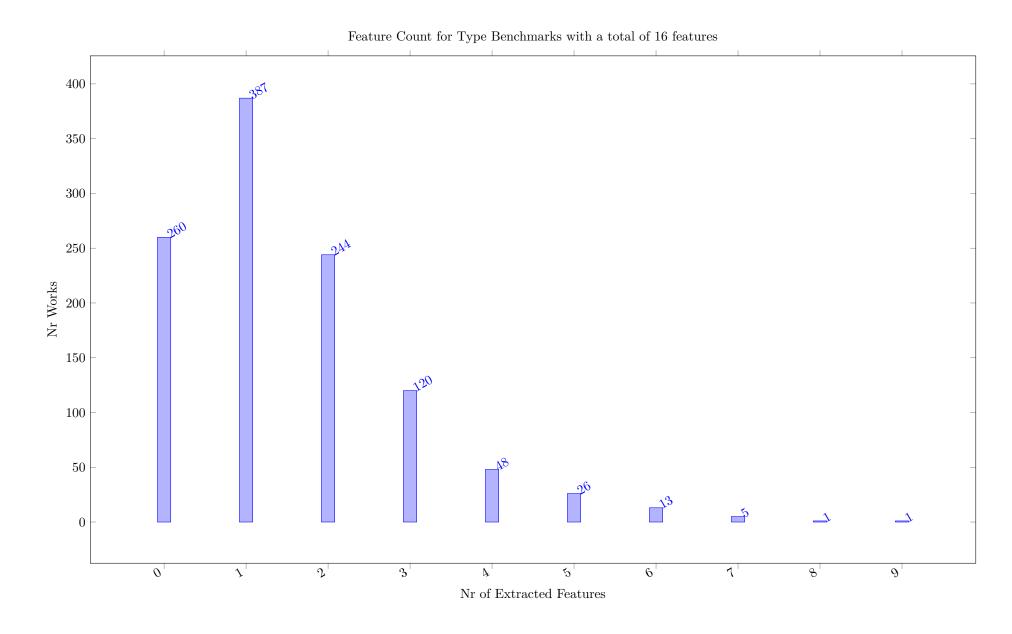


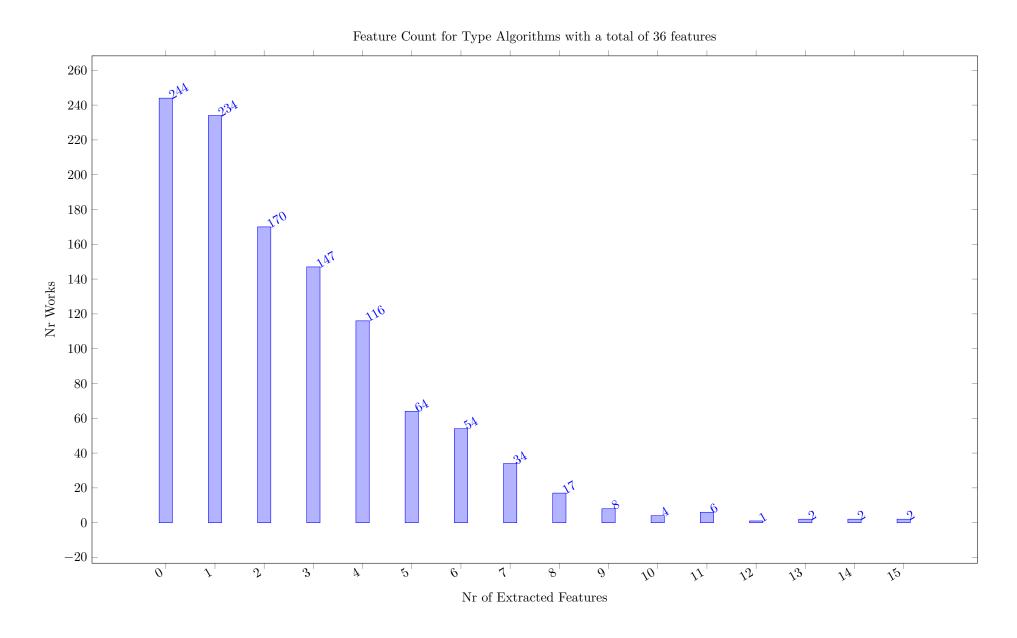












13 Coauthor graph

The coauthor plot is created by graphviz, and is based on the coauthor relations extracted from the author fields of the works. Authors with few works (less than coauthorLimit) are not shown, to avoid a cluttered view. Note that this analysis depends on the use of canonical forms of author names. If bib entries come from many different sources, we will need to check this manually. DBLP seems to be using ORCID values and typically identifies the authors of a work with a canonical representation of their name. Accents and umlauts are other sources of having multiple forms of the name of the same author. Note that the risk of two different authors using the same name should be low for very specific literature surveys, but cannot be checked automatically with the data sources currently used.

Generated: July 31, 2024

The plots can be made with different layout tools in graphviz, it seems that fdp produces the most consistent visually attractive plots for this type of display. This probably needs more work on parameter settings to be fully automated.

Section 13 COAUTHOR GRAPH 86

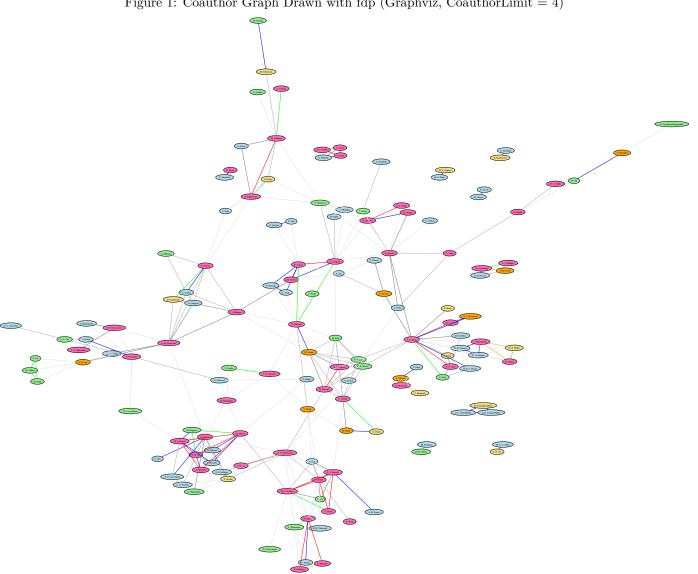
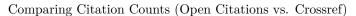
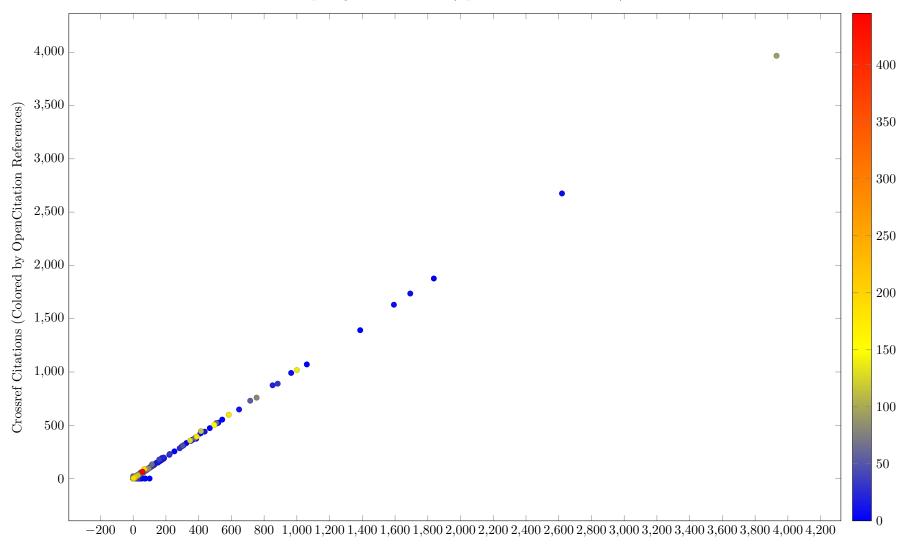


Figure 1: Coauthor Graph Drawn with fdp (Graphviz, Coauthor Limit =4)

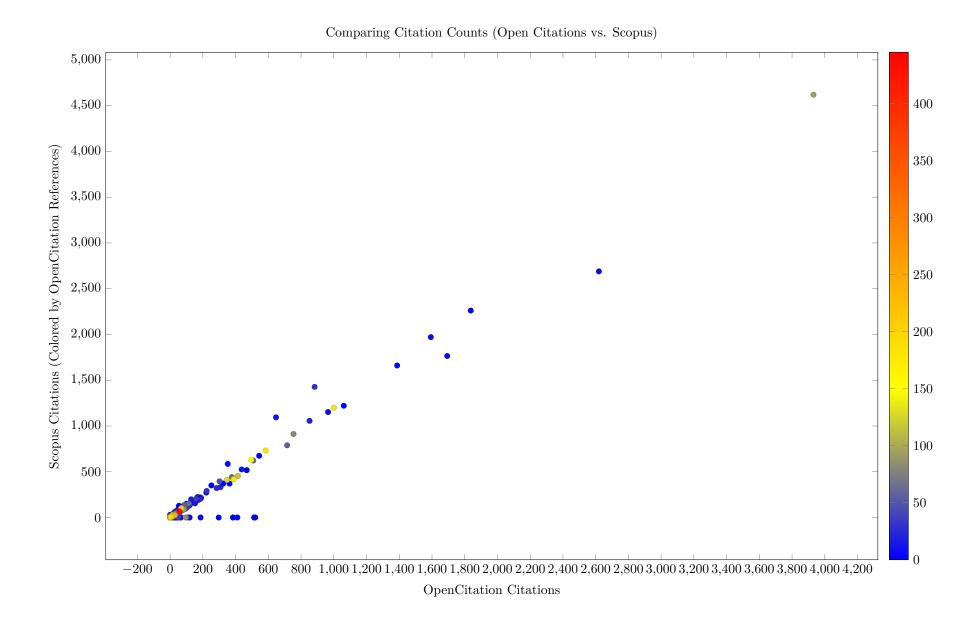
14 OpenCitations vs. Crossref Data vs. Scopus Data

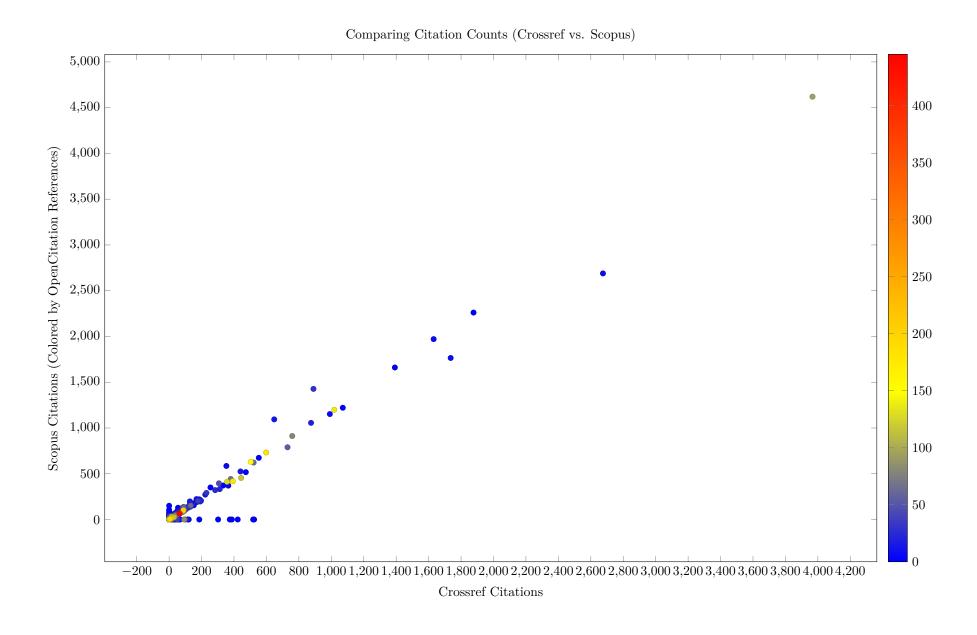
14.1 Citation Comparison

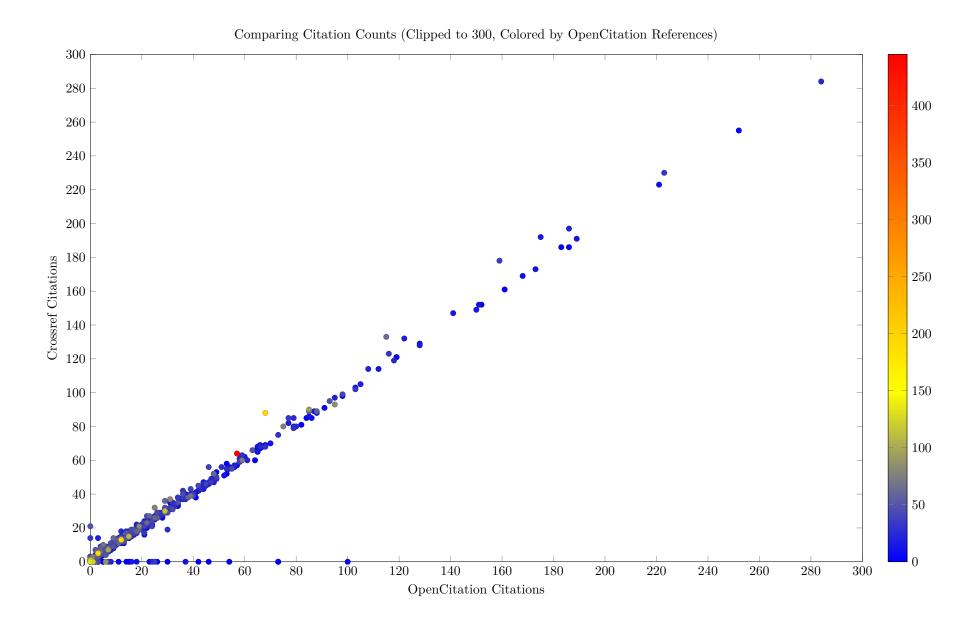


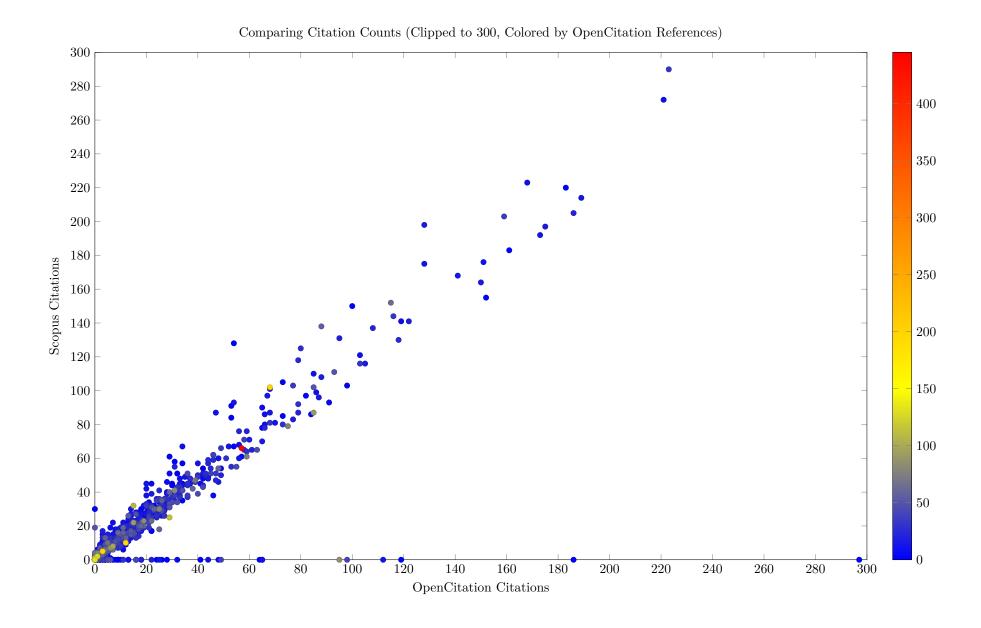


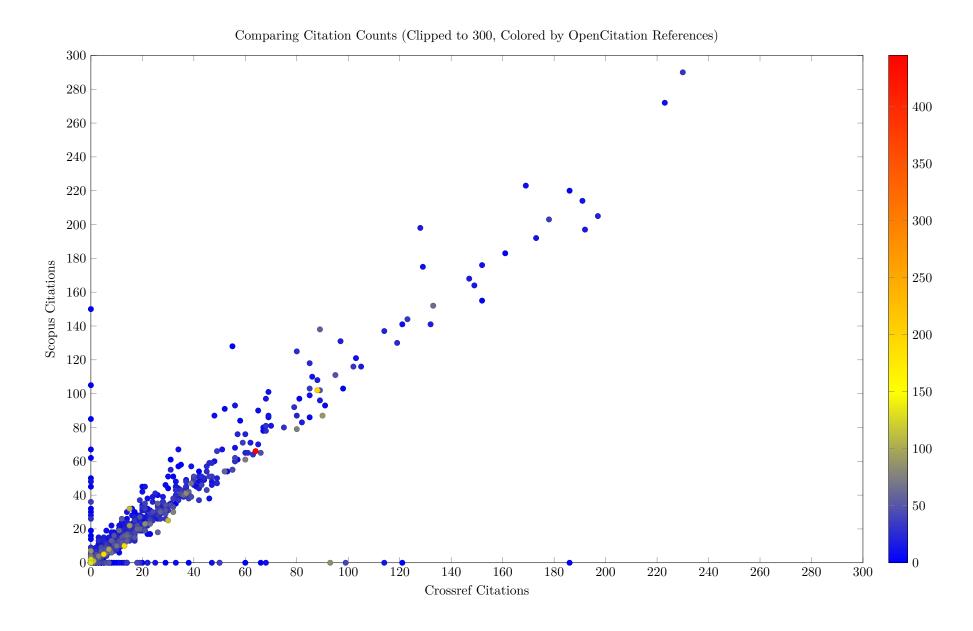
OpenCitation Citations Section 14 OPENCITATIONS VS. CROSSREF DATA VS. SCOPUS DATA



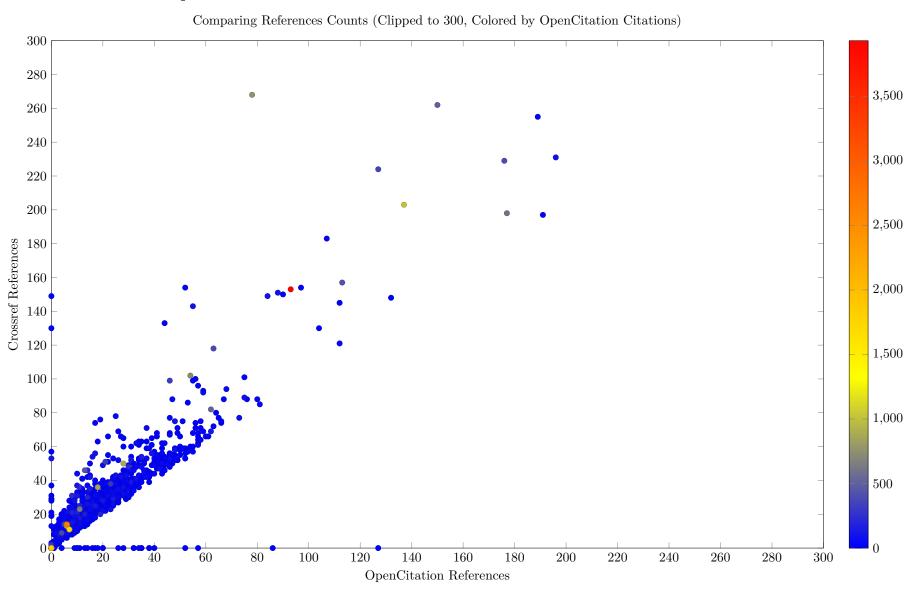






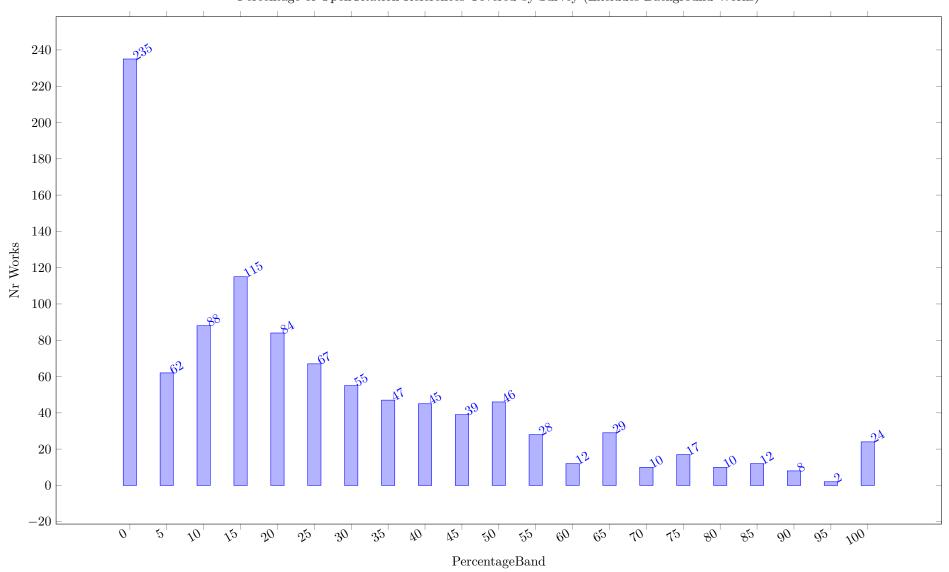


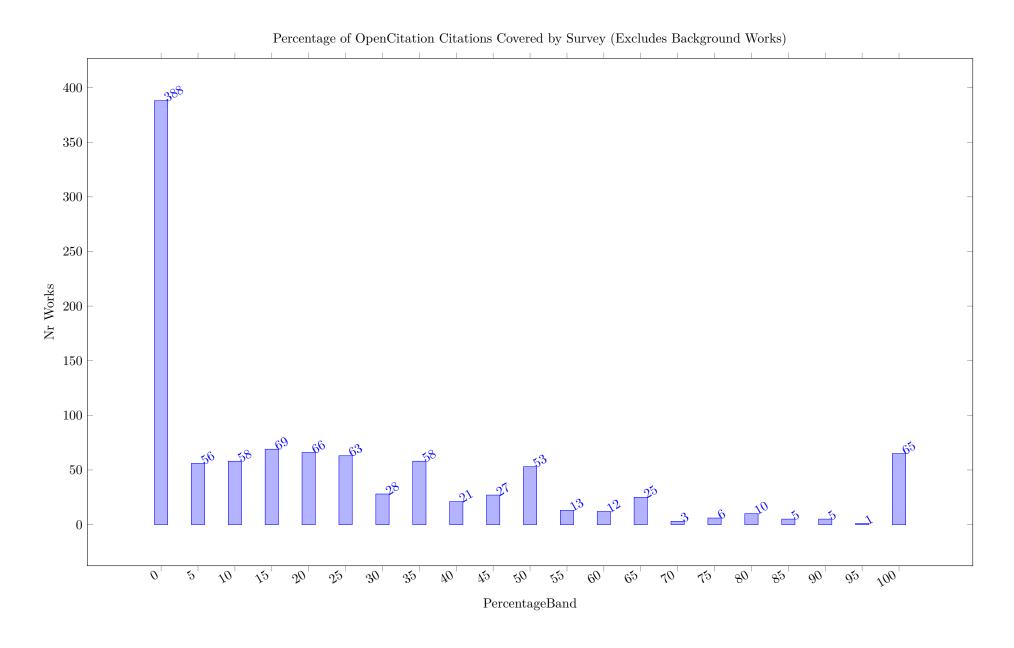
14.2 References Comparison

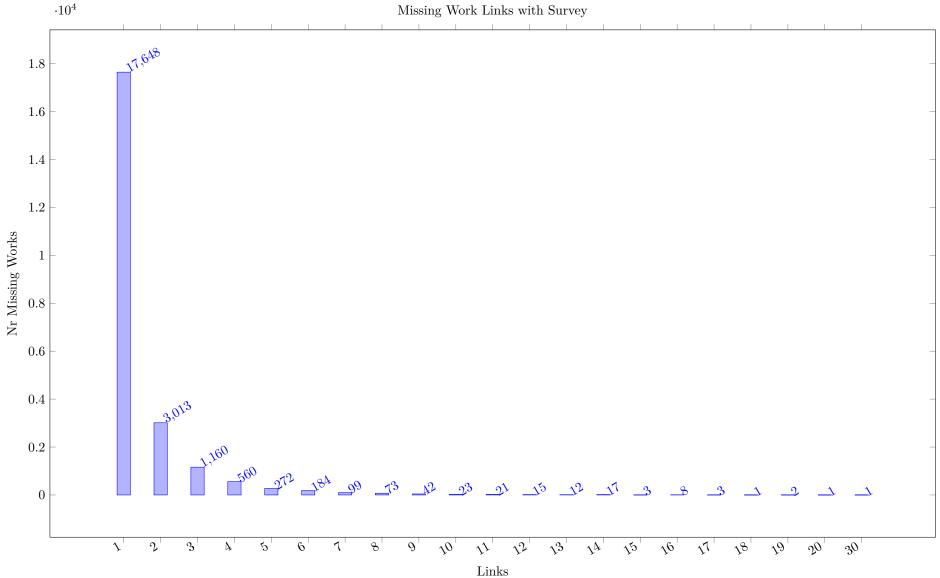


14.3 Percentage Cover







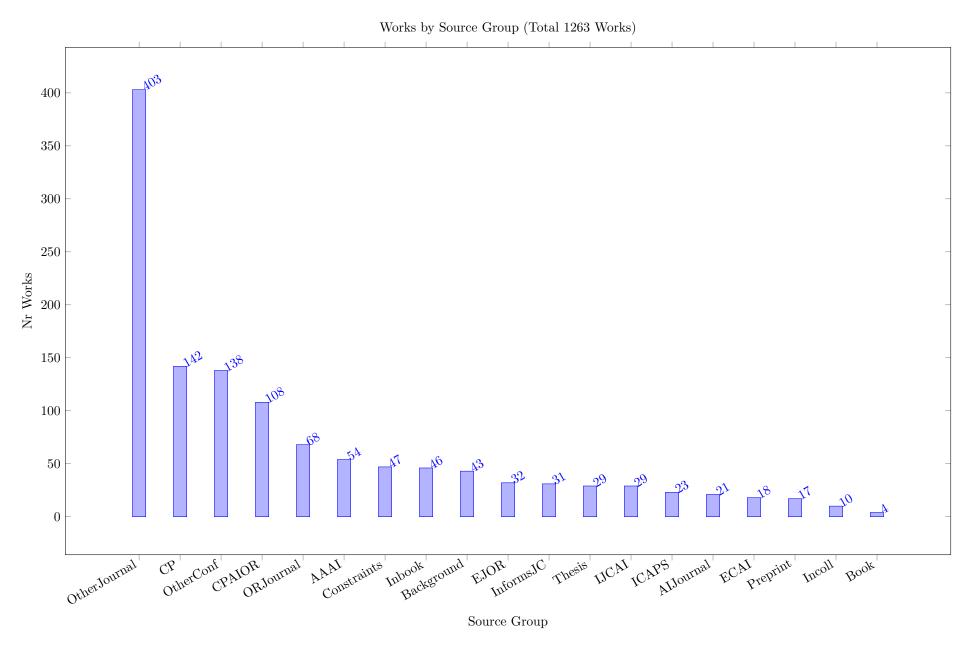


Citations by Year and Source Group 15

We have defined a number of source groups to group publications of a given type together, without using the full conference series and journal distinctions for grouping. The following table lists all defined source groups for this survey. Adding groups requires updates to the source code.

Table 13: Source Groups	
Name	Description
Background	Background material
CP	The CP conference (from 1995)
CPAIOR	The CPAIOR conference (starting 2004)
ICAPS	The ICAPS conference
AAAI	AAAI conference
IJCAI	IJCAI Conference
ECAI	ECAI Conference
OtherConf	Any other conference
Constraints	The Constraint Journal
EJOR	The European Journal on Operations Research
InformsJC	The Informs Journal on Computing
AIJournal	Other AI Journals
ORJournal	Other OR Journals
JoPR	Journal of Peace Research
JoCR	Journal of Conflict Resolution
CMPS	Conflict Management and Piece Science
Preprint	A non reviewed preprint
OtherJournal	Any other Journal
Book	A book
Inbook	Chapter in a Book
Incoll	Chapter in a Collection
Thesis	A thesis
Other	Any other published work

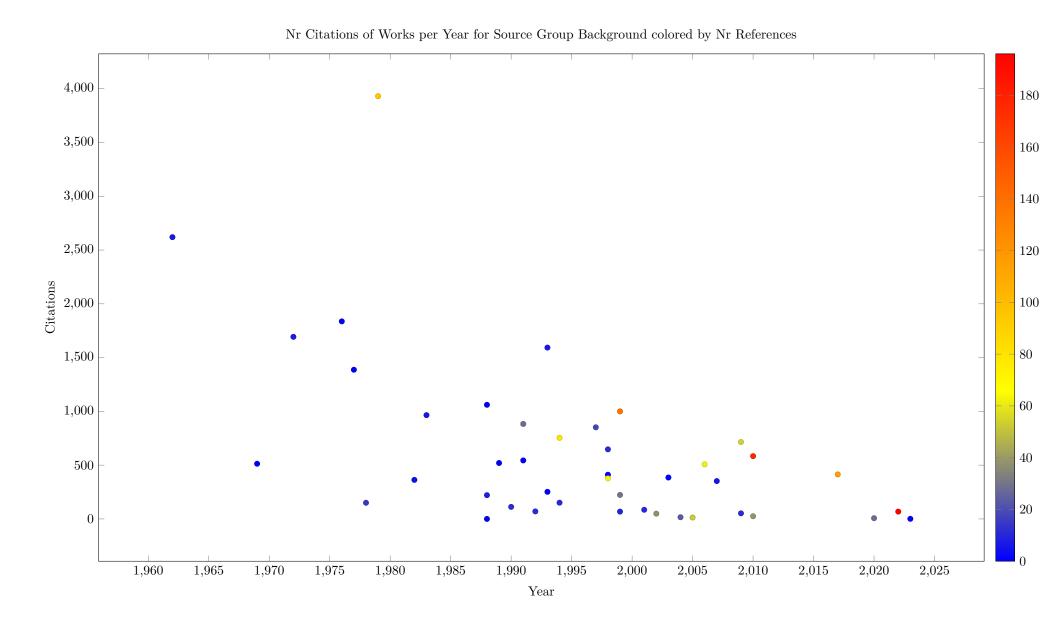
The first plot in this section shows how many works in each source group have been published. This considers the complete time period of the survey.

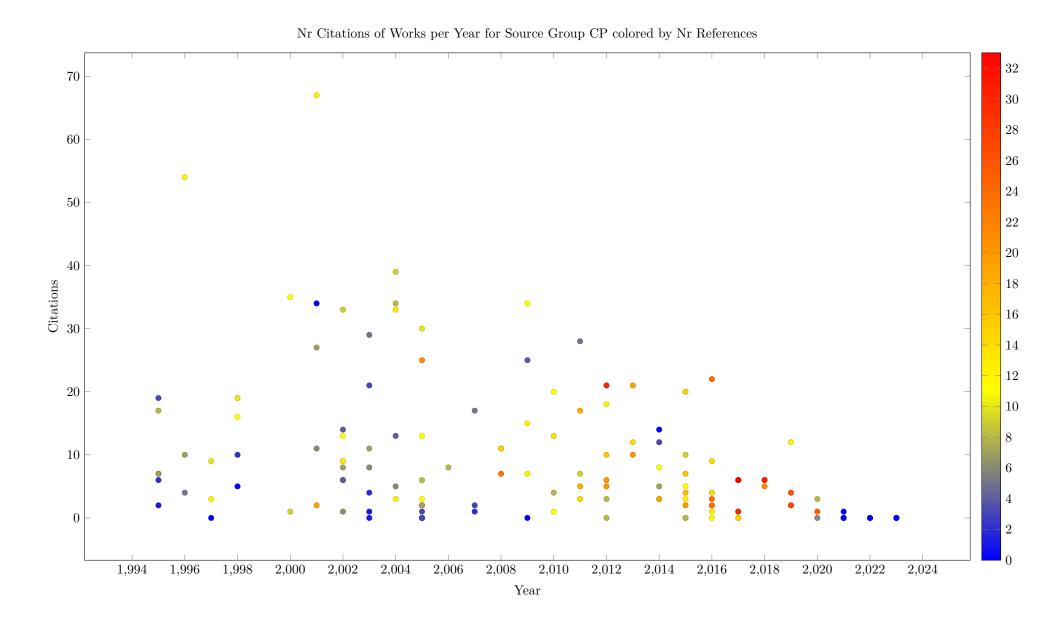


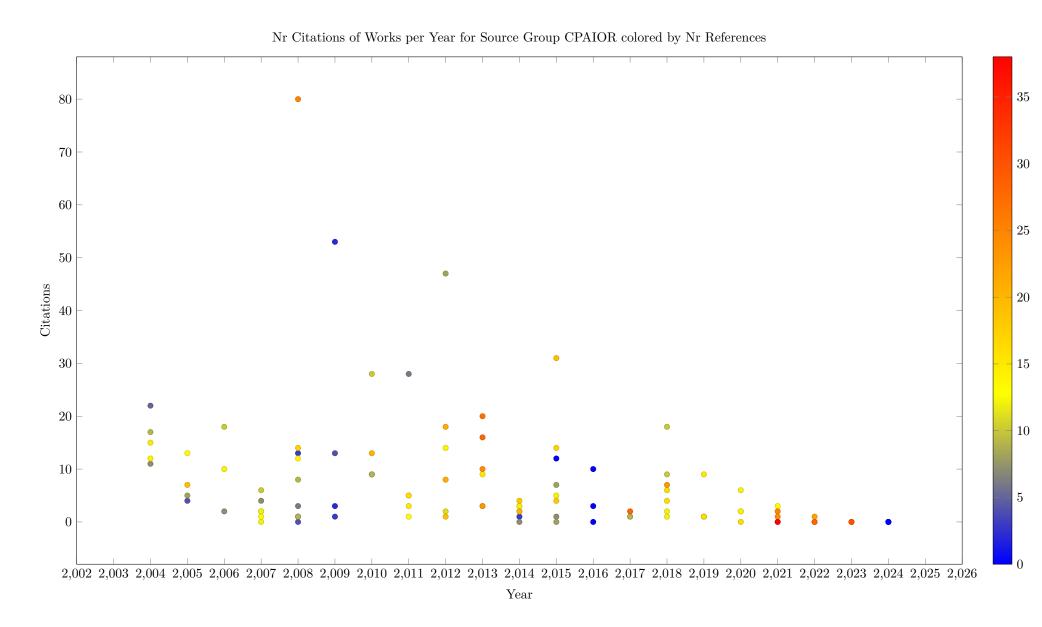
Section 15 CITATIONS BY YEAR AND SOURCE GROUP

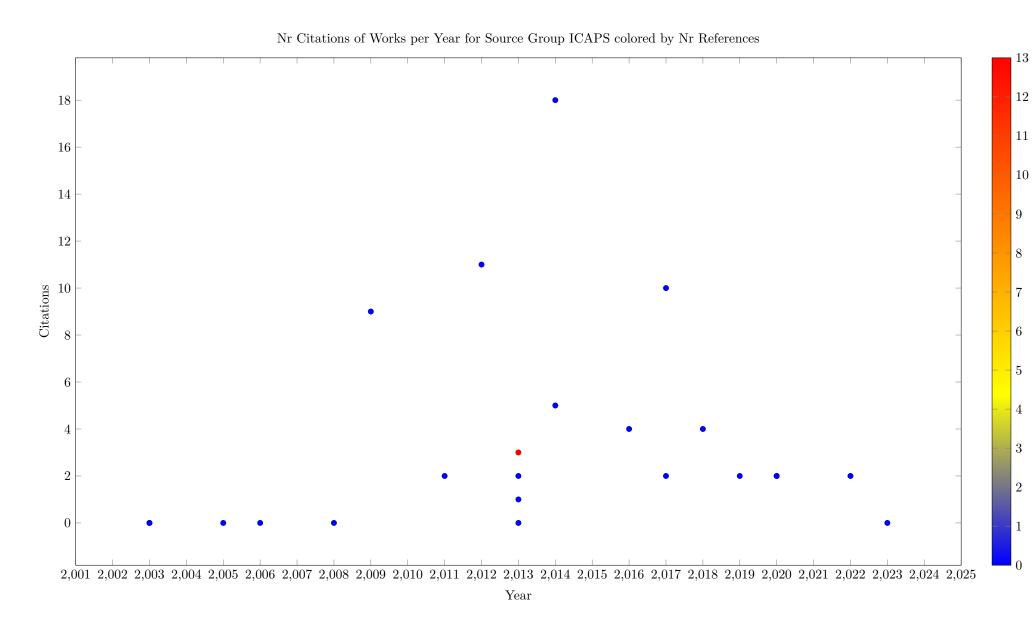
15.1 Source Group Citations by Year

We plot for each source group the number of citations obtained by papers published in a given year. This plot gives both an indication in which period the source group was active, and how significant the works in the source are. It is of course natural that more recent papers have fewer citations than papers published many tears ago.

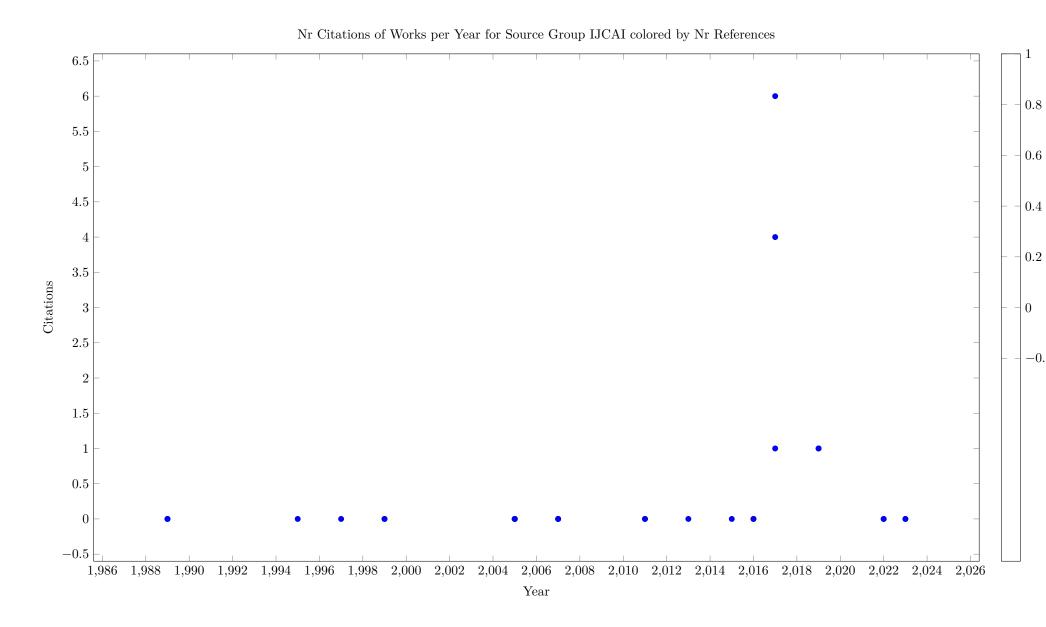


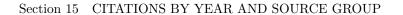


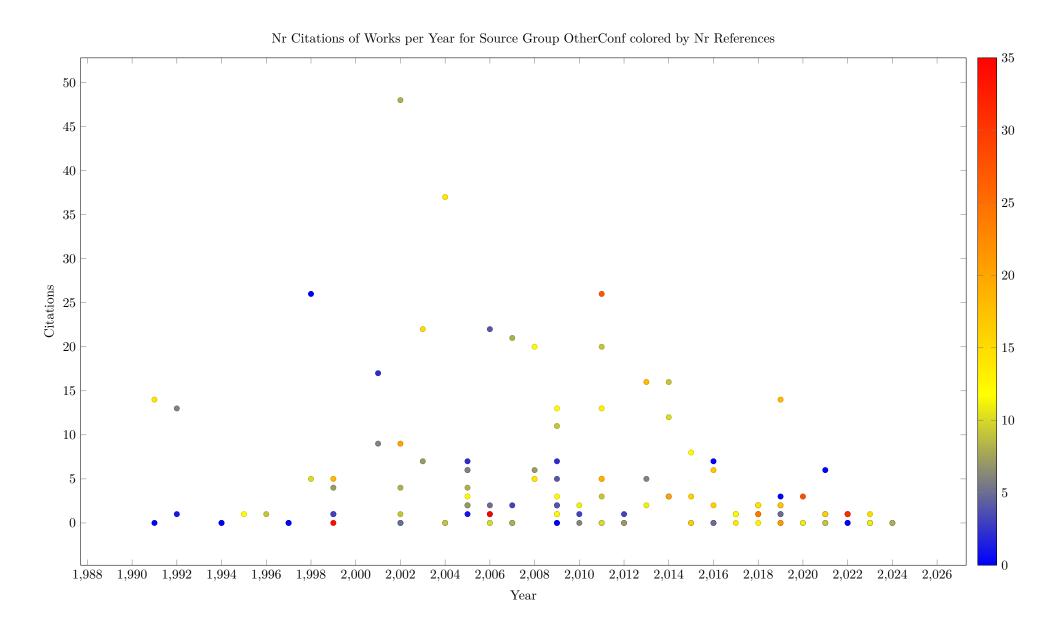


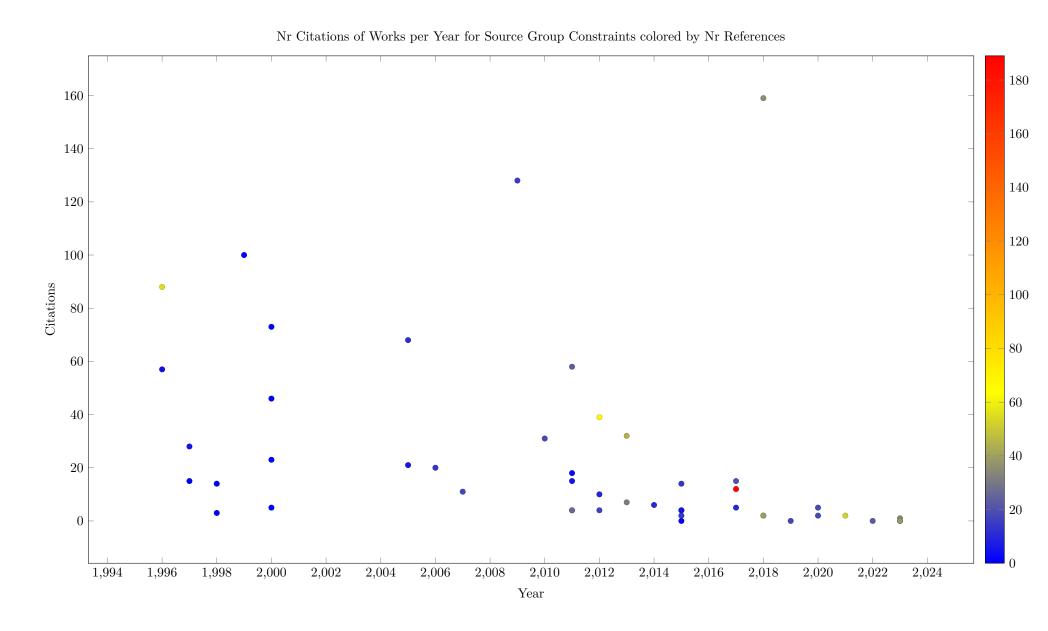


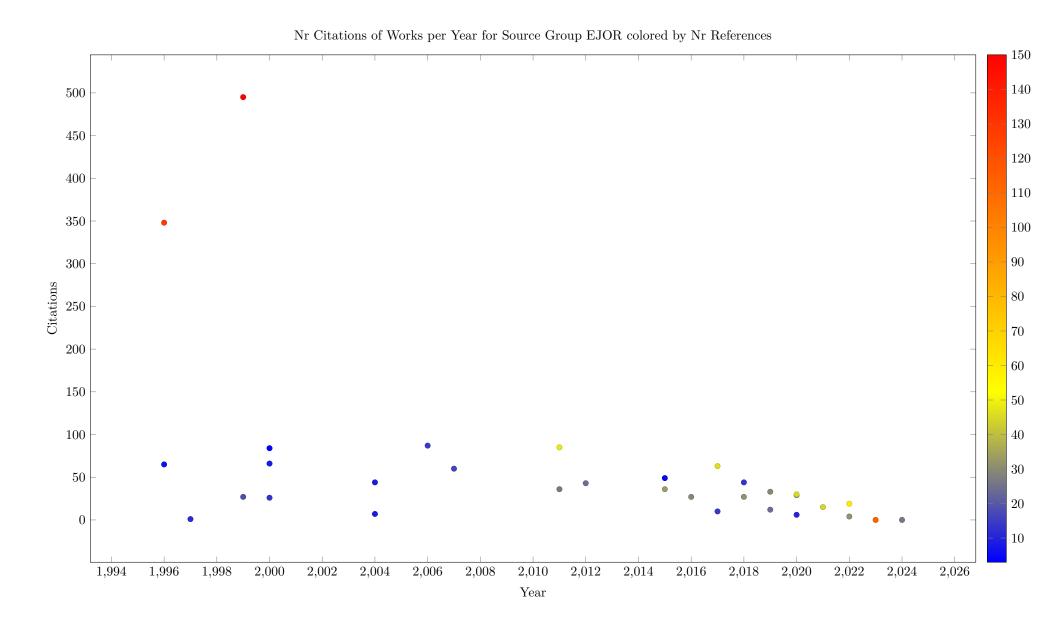


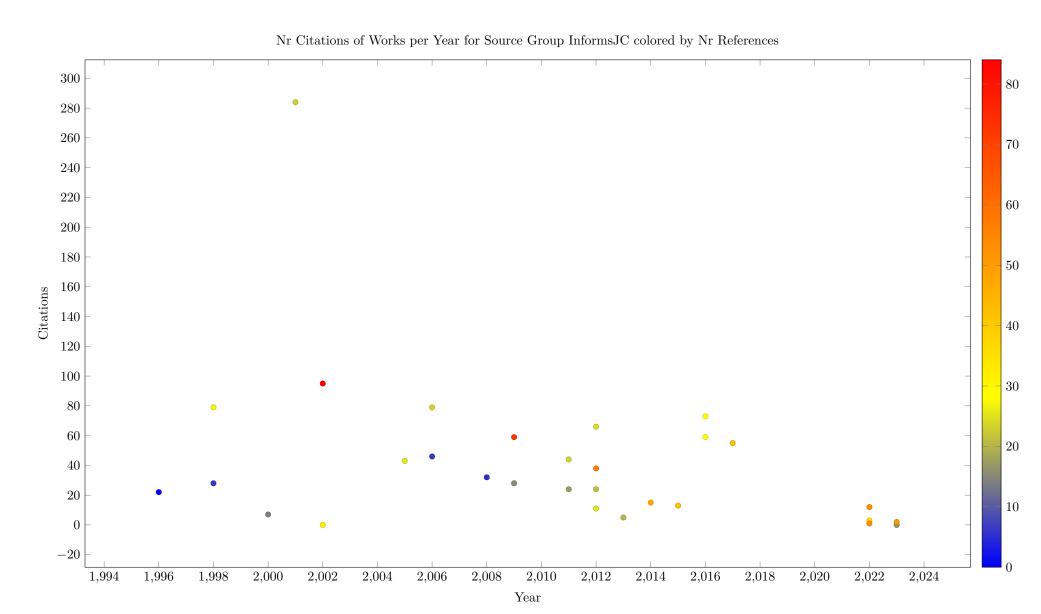


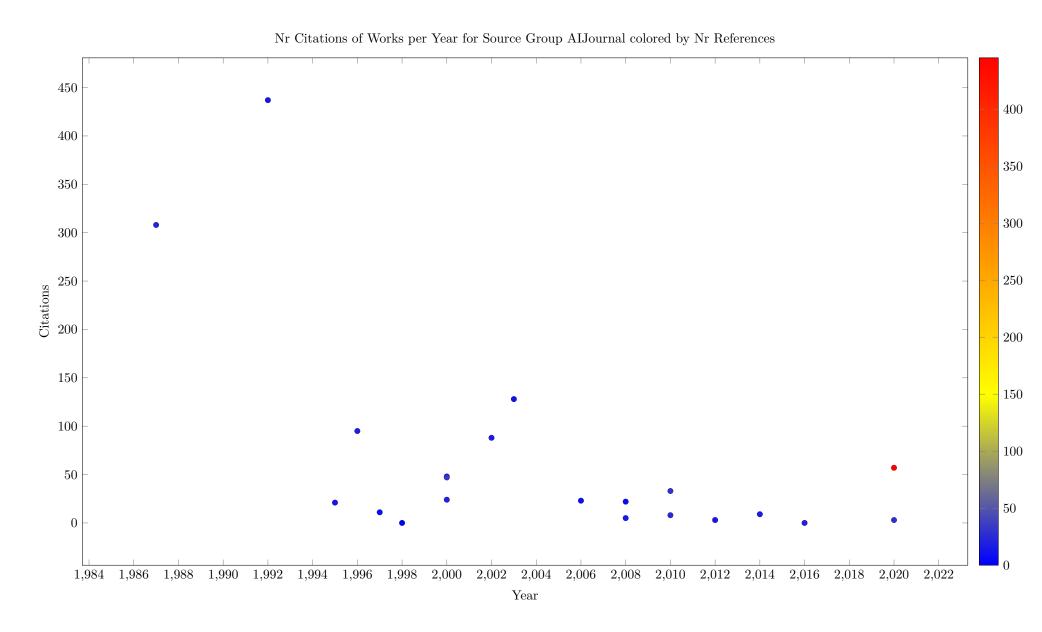


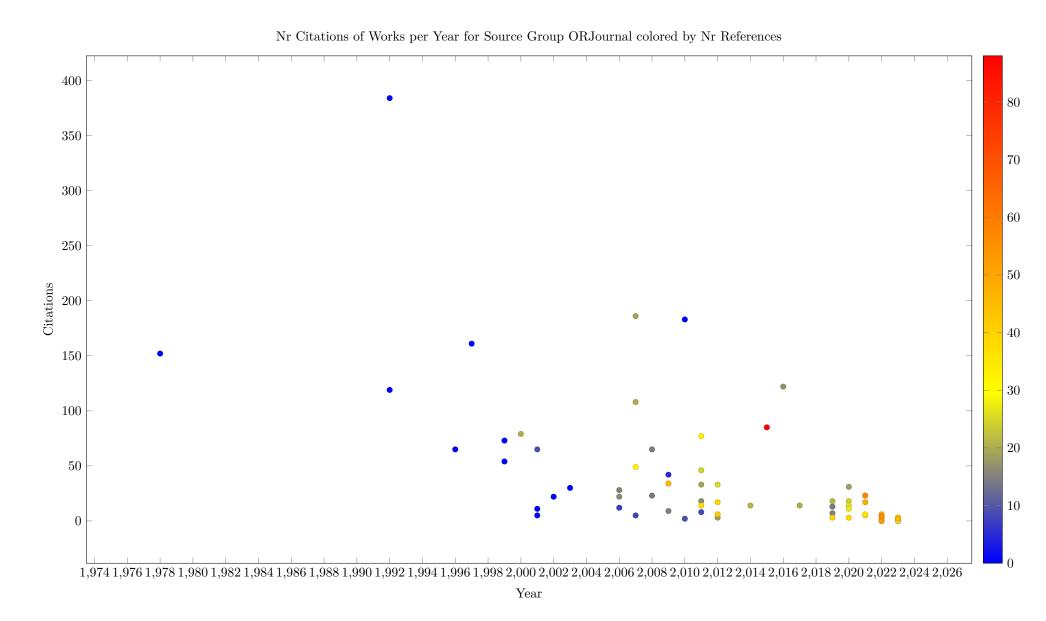


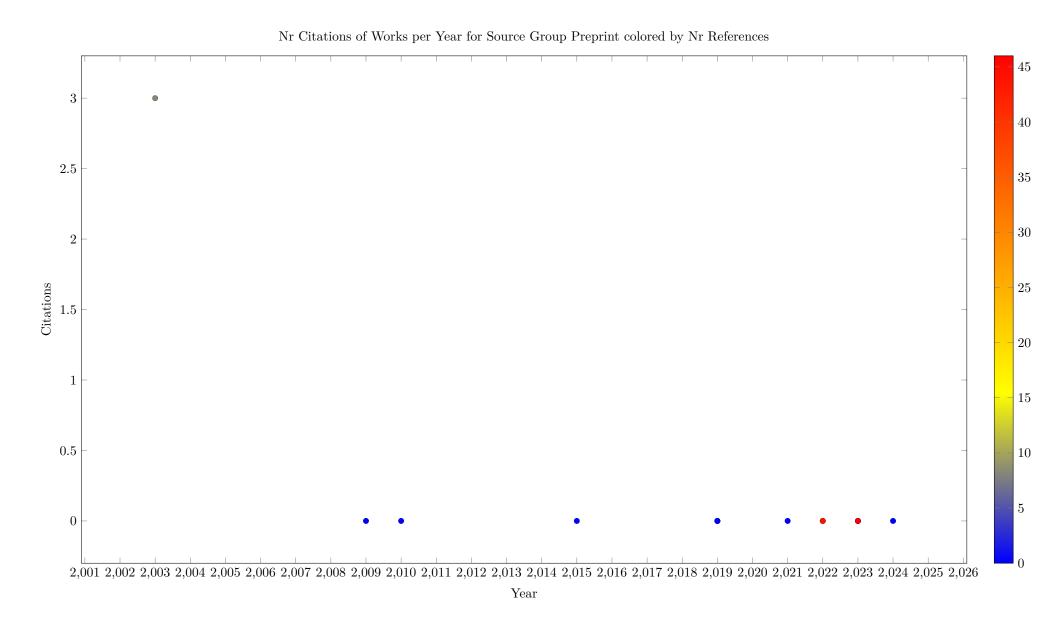


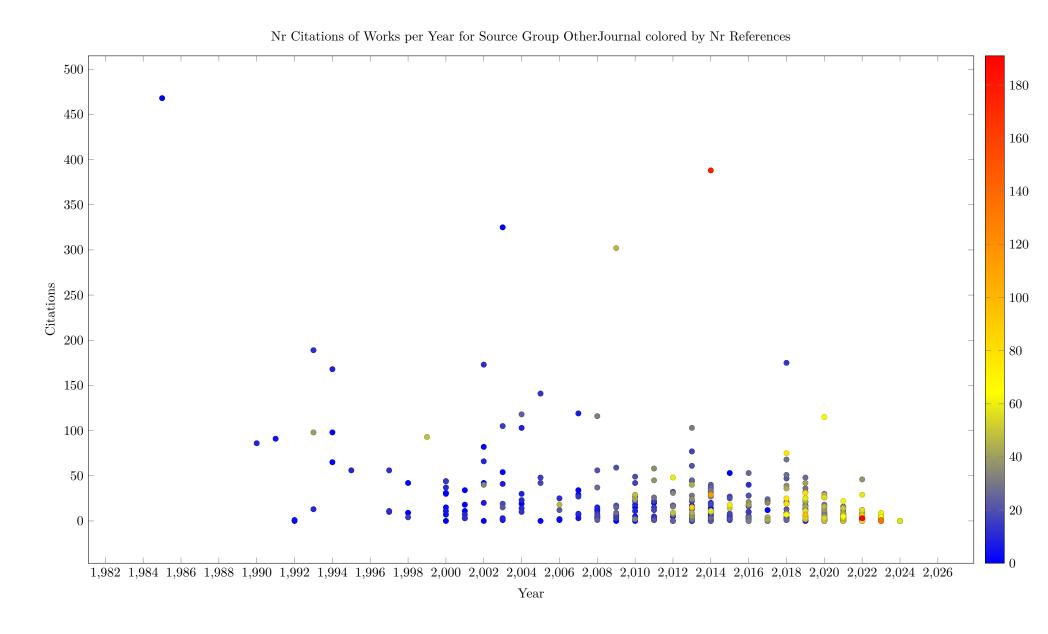


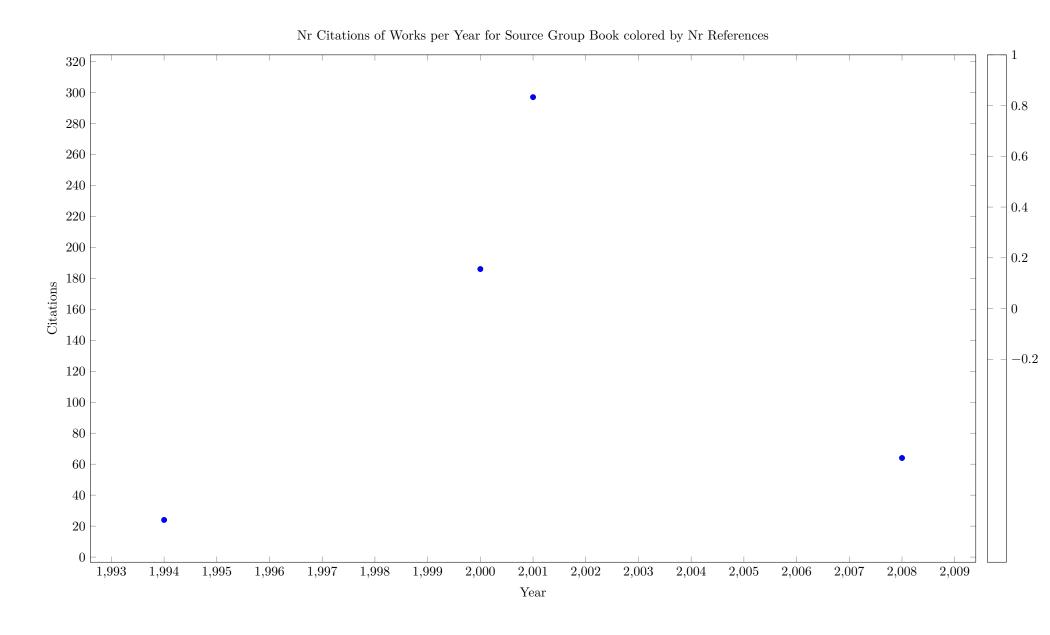


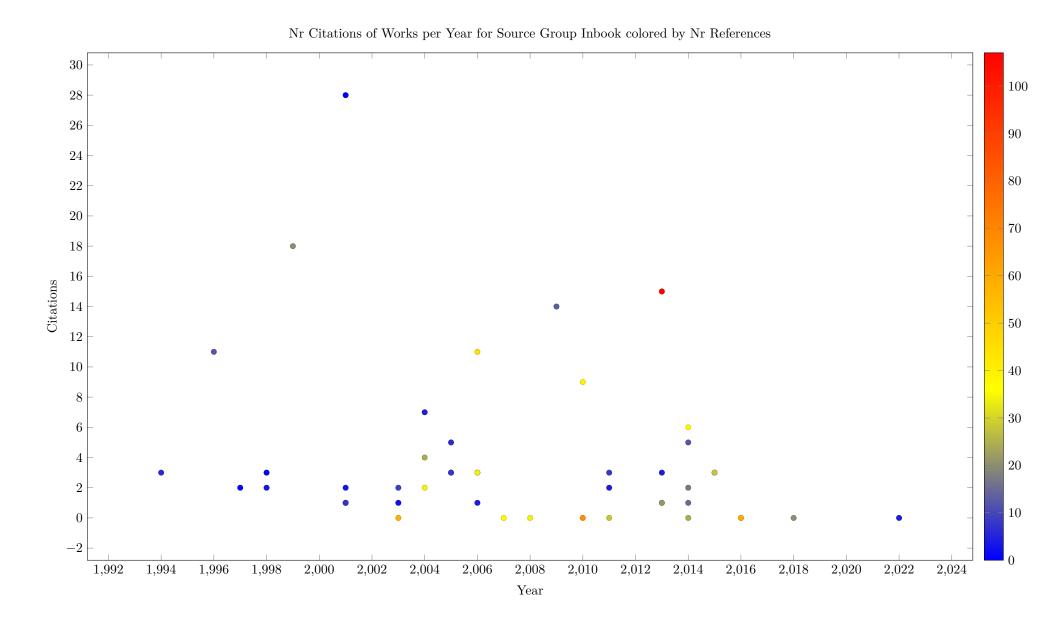


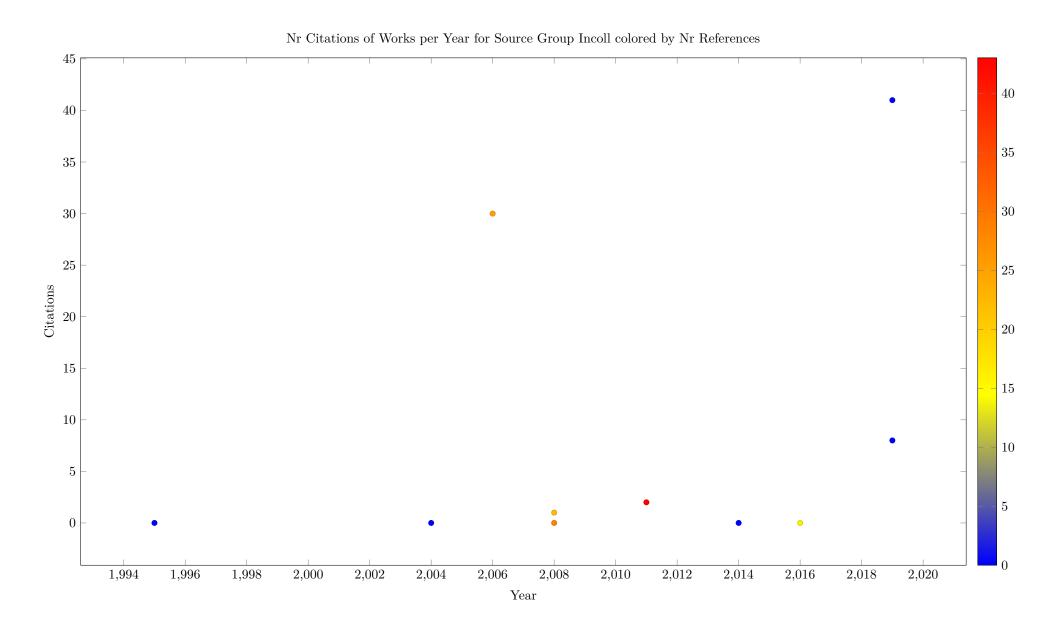




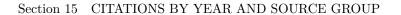








Year



15.2 Reference Flows

The following table looks at references between source groups that are contained in the survey, i.e. where bot the citing and the cited work is included in the survey. We show how many papers referred to in the group on the left belong to the group in the column.

Table 14: Reference Flows																	
	Background	$^{\mathrm{CP}}$	CPAIOR	ICAPS	AAAI	IJCAI	OtherConf	Constraints	EJOR	${\rm InformsJC}$	AlJournal	ORJournal	Preprint	Other Journal	Book	Inbook	Incoll
Background	68	16	3				1	12	8	21	2	25		31	6	4	
CP	131	129	71	2	1	1	13	42	6	28	18	20		83	27	5	4
CPAIOR	98	112	71	4	2	1	17	48	15	26	7	29	1	79	28	6	2
ICAPS	4	3															
OtherConf	57	43	23				15	24	12	16	14	19		76	10	6	1
Constraints	63	59	43	2			9	24	5	15	8	16		63	18	3	1
EJOR	62	3	1					10	21	19	6	18		44		3	1
InformsJC	70	22	12					19	20	28	4	20		43	16	2	1
AlJournal	33	10	4	1			8	5	9	5	16	4		42		2	
ORJournal	101	41	18				1	32	25	34	13	30		93	8	4	1
Preprint	6							3	11	5		4		8	2		
OtherJournal	324	84	56	6			27	112	102	98	60	136		595	40	12	6
Inbook	99	20	15				3	15	11	24	9	29		55	12	8	
Incoll	13	2					2	3	5	1	5	6		6	2	1	

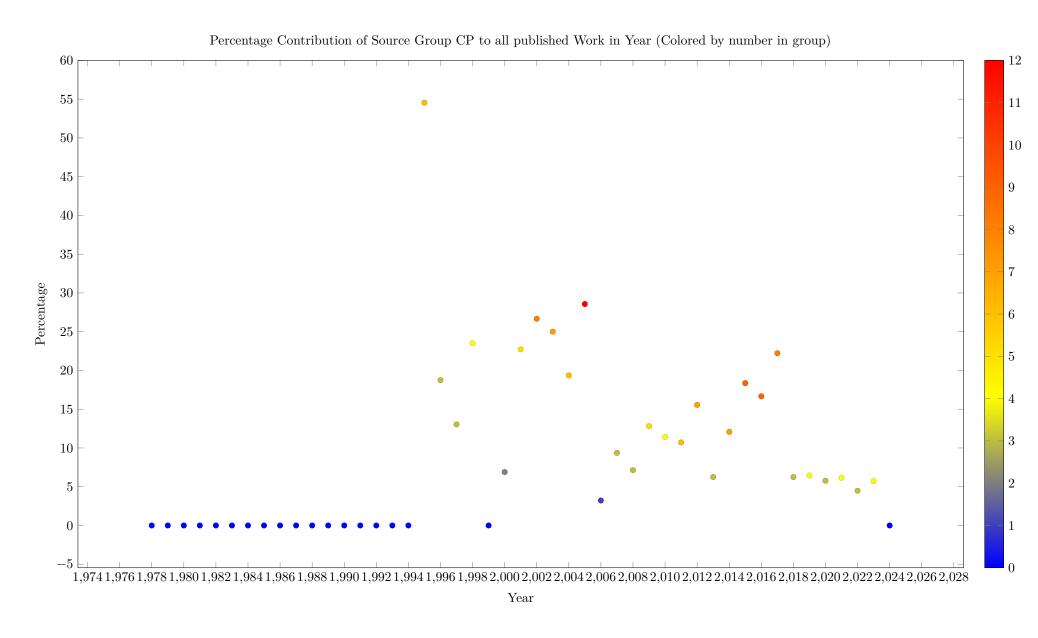
The entries in the previous table are not directly comparable, without knowing how many works are in group. The next table presents a normalized view, where we divide the flow count by the product of the group sizes. This produces a likelihood of a paper in the source group citing a paper in the target group, given as a percentage from 0 to 100. We can see that the likelihood does not depend on the prestige of the target, e.g. papers at AAAI are cited much less than papers in CP.

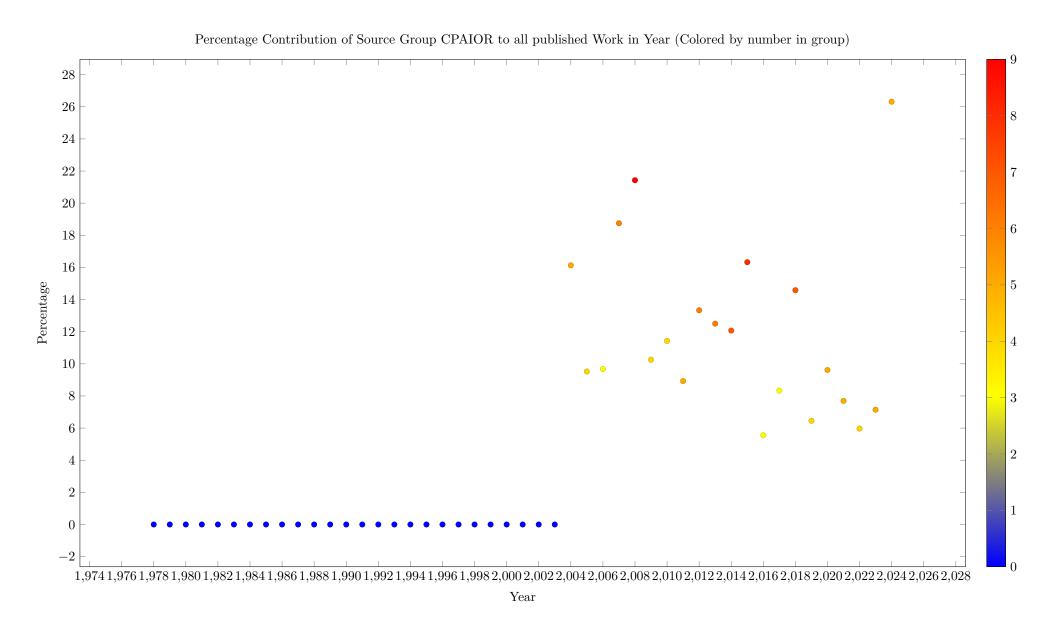
Note that the numbers are derived from the flows contained in the survey, which are based on the OpenCitation reference links. If such links are missing, or we are missing works in some group, then the results will be affected.

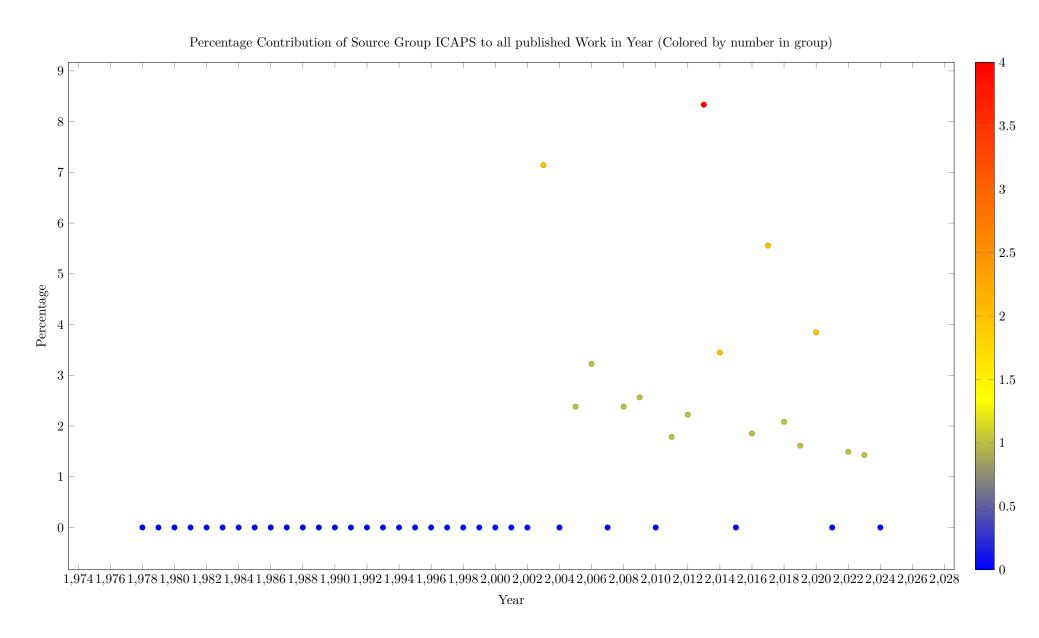
Table 15: Reference Flows Normalized																	
	Background	$^{\mathrm{CP}}$	CPAIOR	ICAPS	AAAI	IJCAI	Other Conf	Constraints	EJOR	${\rm InformsJC}$	AlJournal	ORJournal	Preprint	Other Journal	Book	Inbook	Incoll
Background	3.68	0.26	0.06				0.02	0.59	0.58	1.58	0.22	0.85		0.18	3.49	0.20	
CP	2.15	0.64	0.46	0.06	0.01	0.02	0.07	0.63	0.13	0.64	0.60	0.21		0.15	4.75	0.08	0.28
CPAIOR	2.11	0.73	0.61	0.16	0.03	0.03	0.11	0.95	0.43	0.78	0.31	0.39	0.05	0.18	6.48	0.12	0.19
ICAPS	0.40	0.09															
OtherConf	0.96	0.22	0.15				0.08	0.37	0.27	0.37	0.48	0.20		0.14	1.81	0.09	0.07
Constraints	3.12	0.88	0.85	0.19			0.14	1.09	0.33	1.03	0.81	0.50		0.33	9.57	0.14	0.21
EJOR	4.51	0.07	0.03					0.66	2.05	1.92	0.89	0.83		0.34		0.20	0.31
InformsJC	5.25	0.50	0.36					1.30	2.02	2.91	0.61	0.95		0.34	12.90	0.14	0.32
AlJournal	3.65	0.34	0.18	0.21			0.28	0.51	1.34	0.77	3.63	0.28		0.50		0.21	
ORJournal	3.45	0.42	0.25				0.01	1.00	1.15	1.61	0.91	0.65		0.34	2.94	0.13	0.15
Preprint	0.82							0.38	2.02	0.95		0.35		0.12	2.94		
OtherJournal	1.87	0.15	0.13	0.06			0.05	0.59	0.79	0.78	0.71	0.50		0.37	2.48	0.06	0.15
Inbook	5.01	0.31	0.30				0.05	0.69	0.75	1.68	0.93	0.93		0.30	6.52	0.38	
Incoll	3.02	0.14					0.14	0.64	1.56	0.32	2.38	0.88		0.15	5.00	0.22	

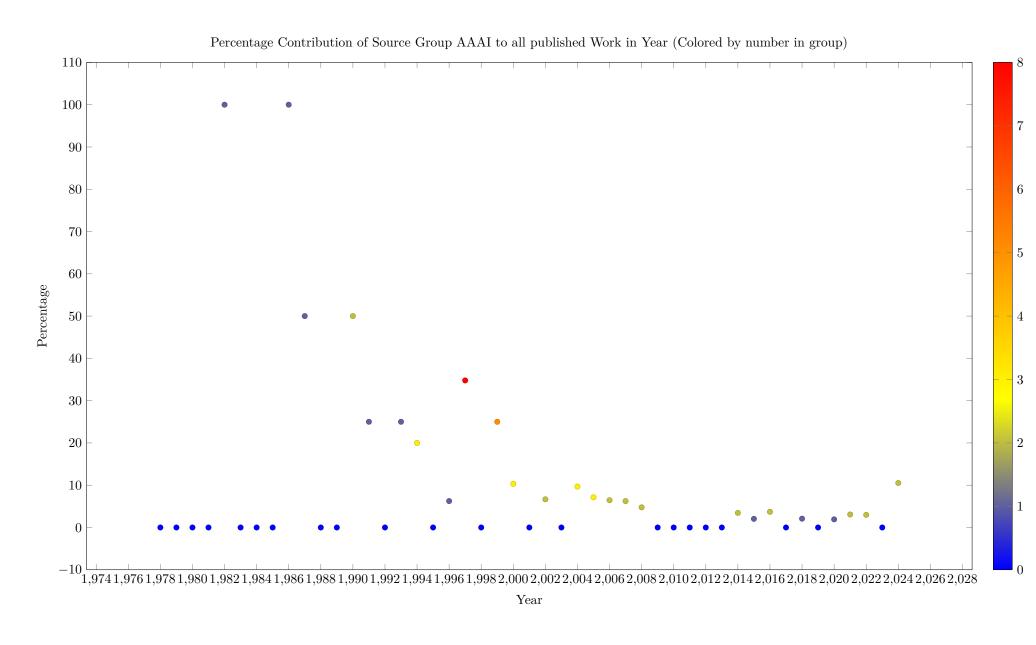
16 Contribution of Source Group to Total Works per Year

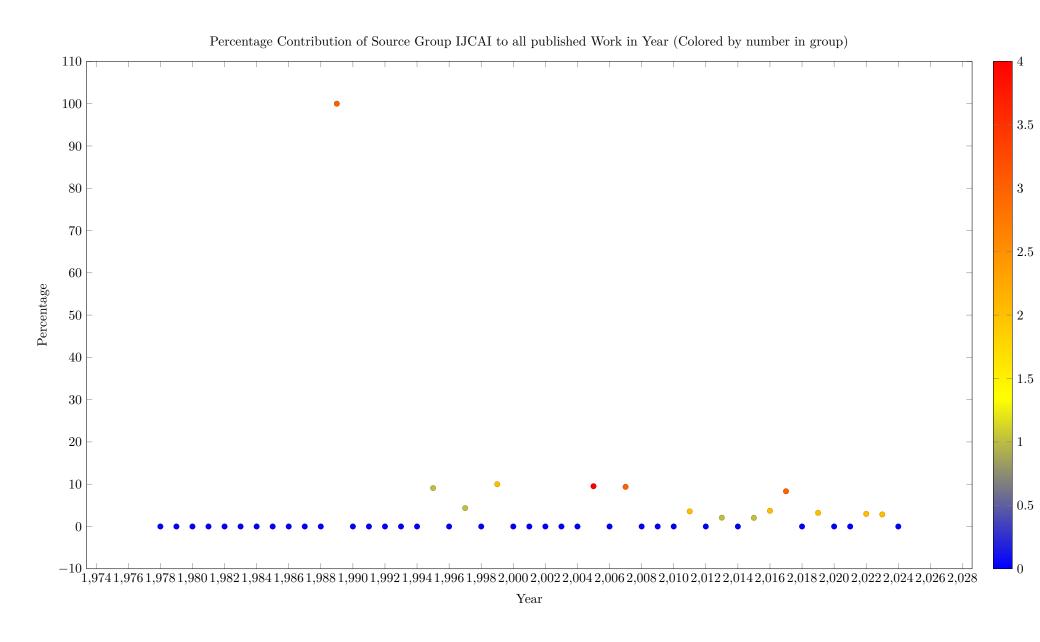
The following plots show the percentage of works published in a year belonging to a specific source group. This plot helps to understand how important that group is to the field over time

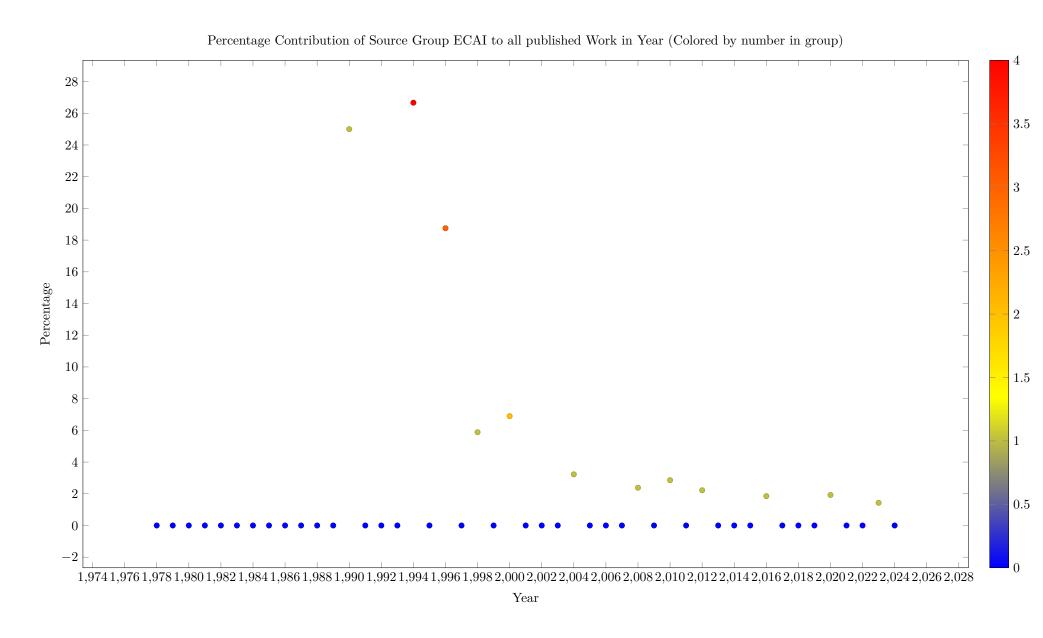


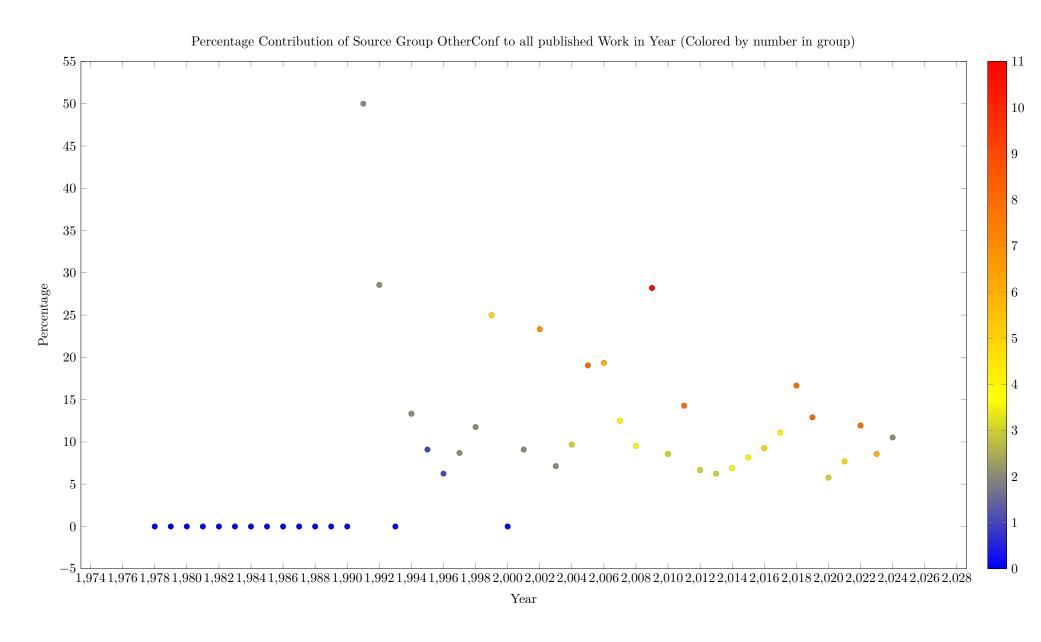


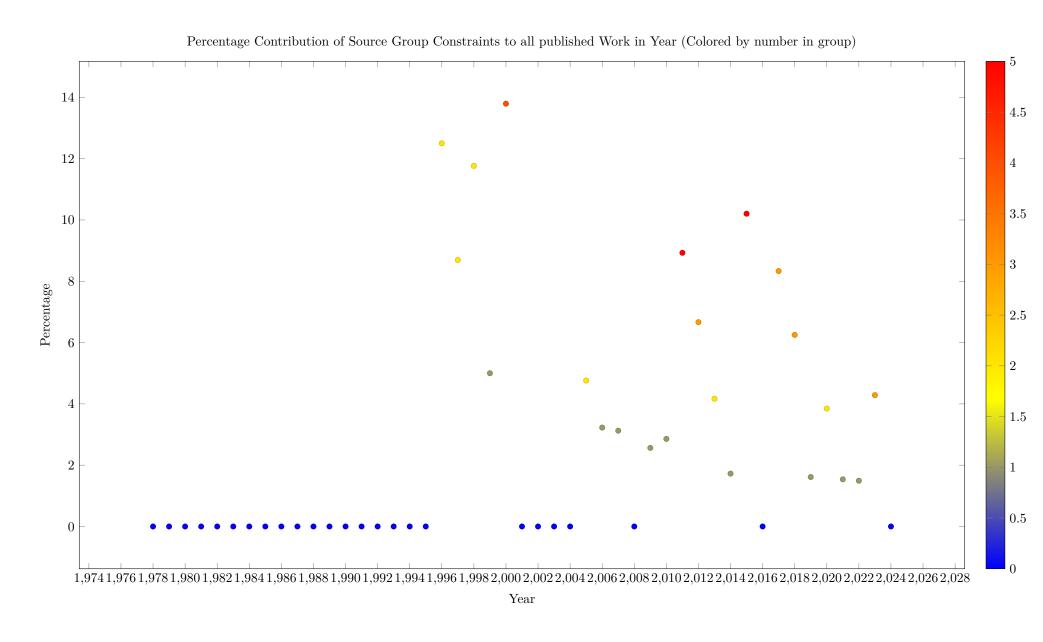


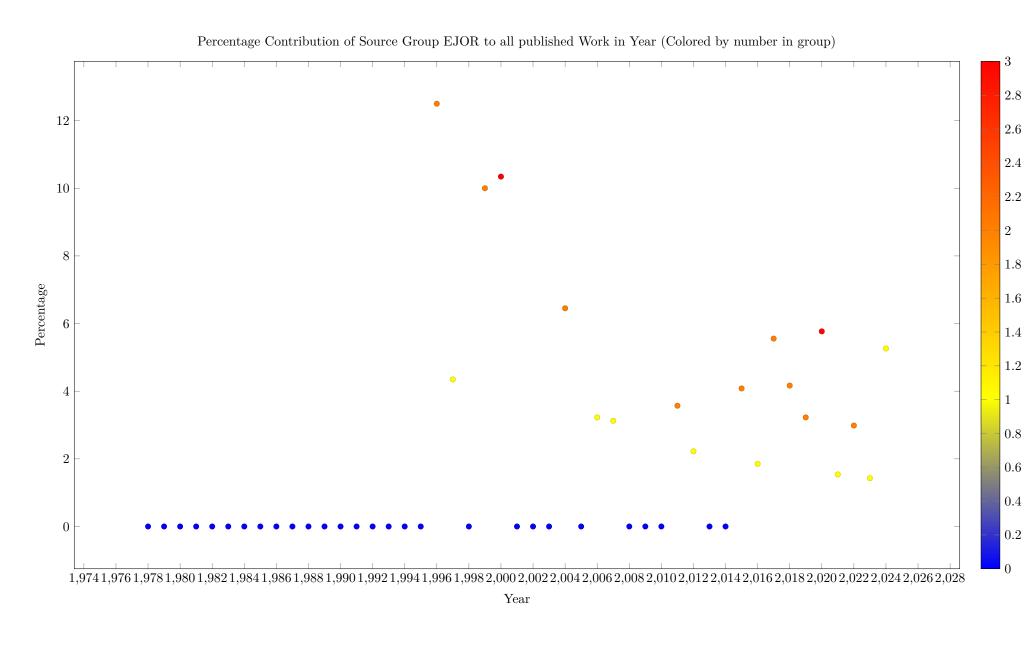


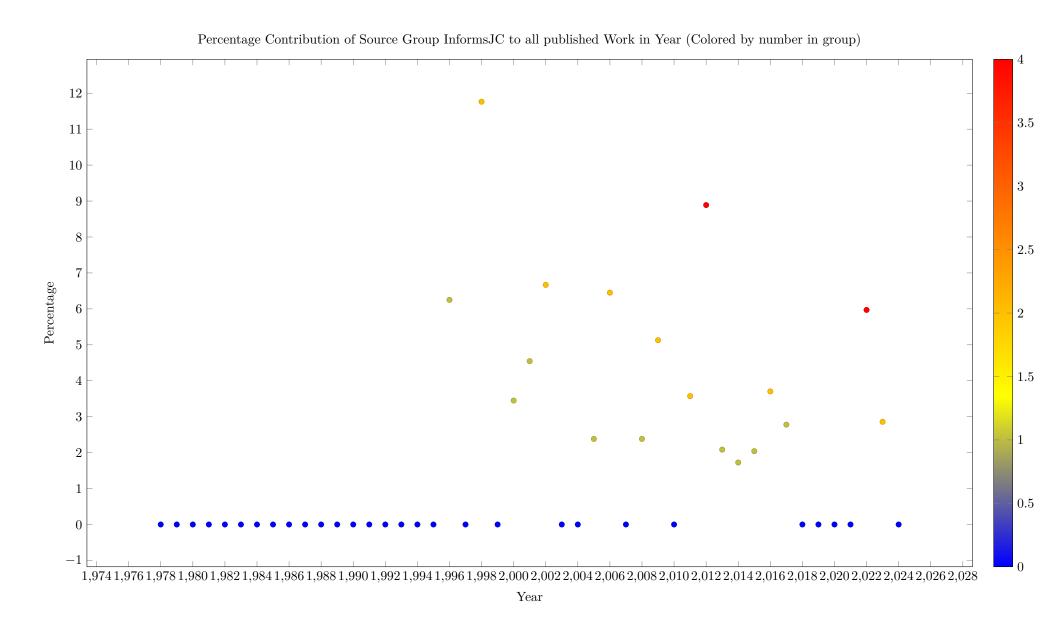












2.8

2.6

2.4

2.2

2

1.8

1.6

1.4

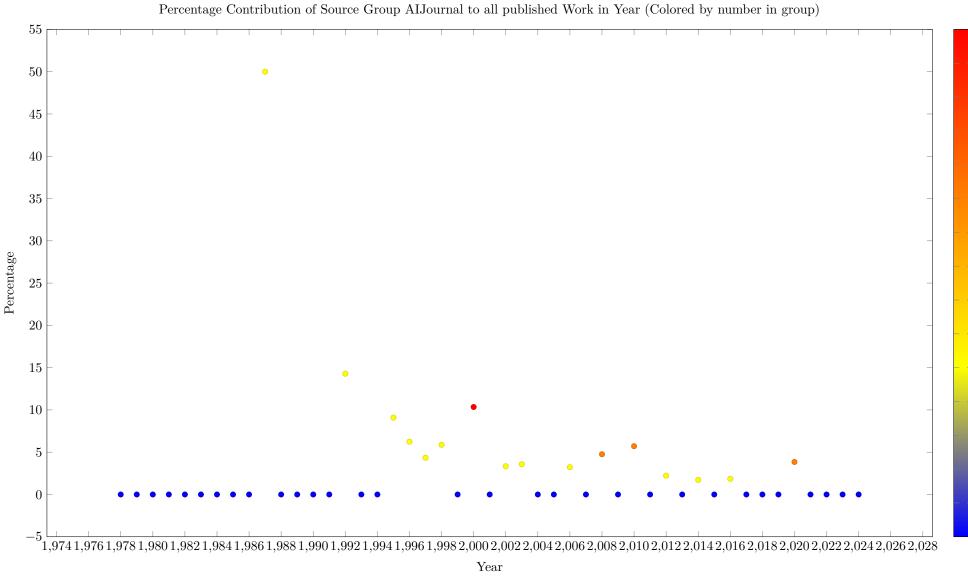
1.2

0.8

0.6

0.4

0.2



6.5

5.5

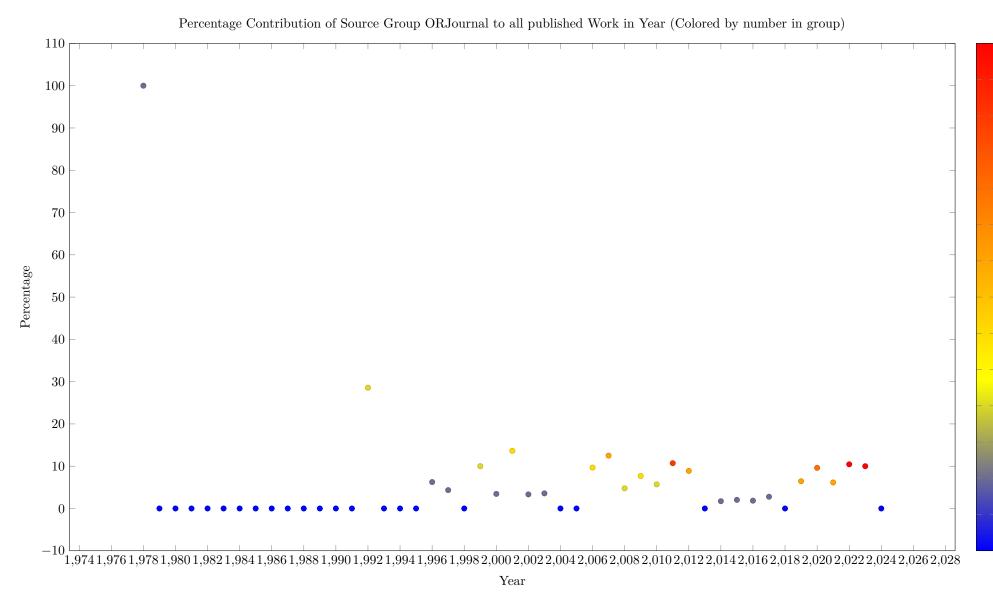
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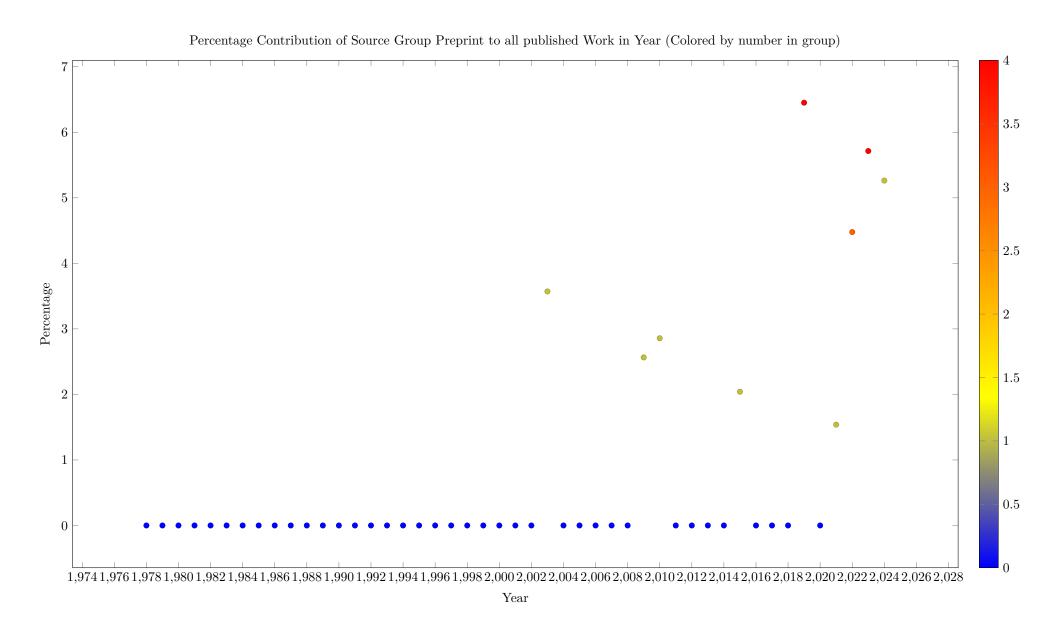
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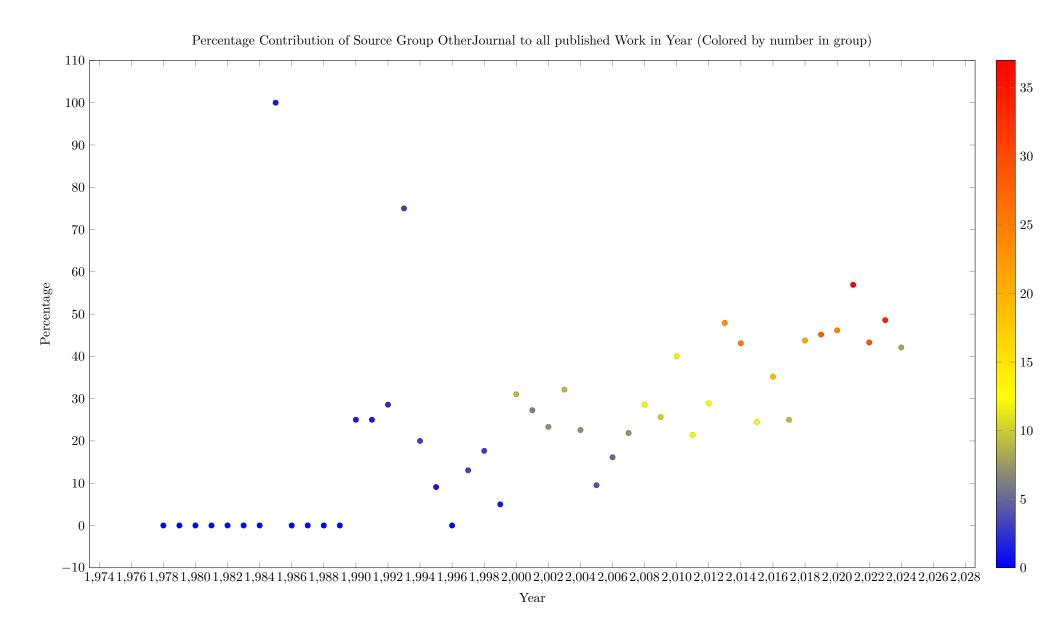
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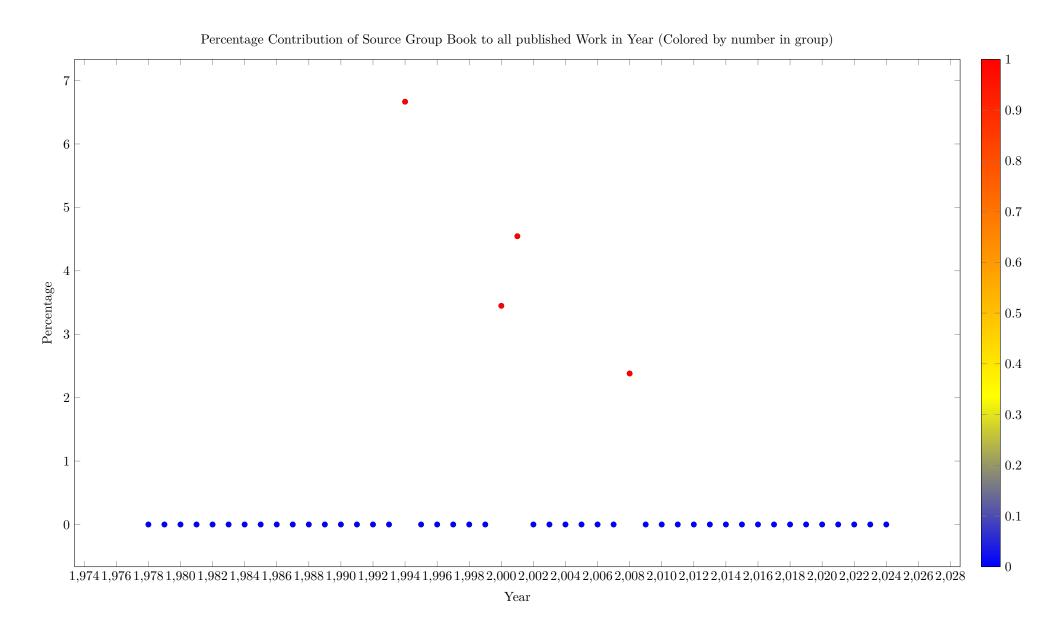
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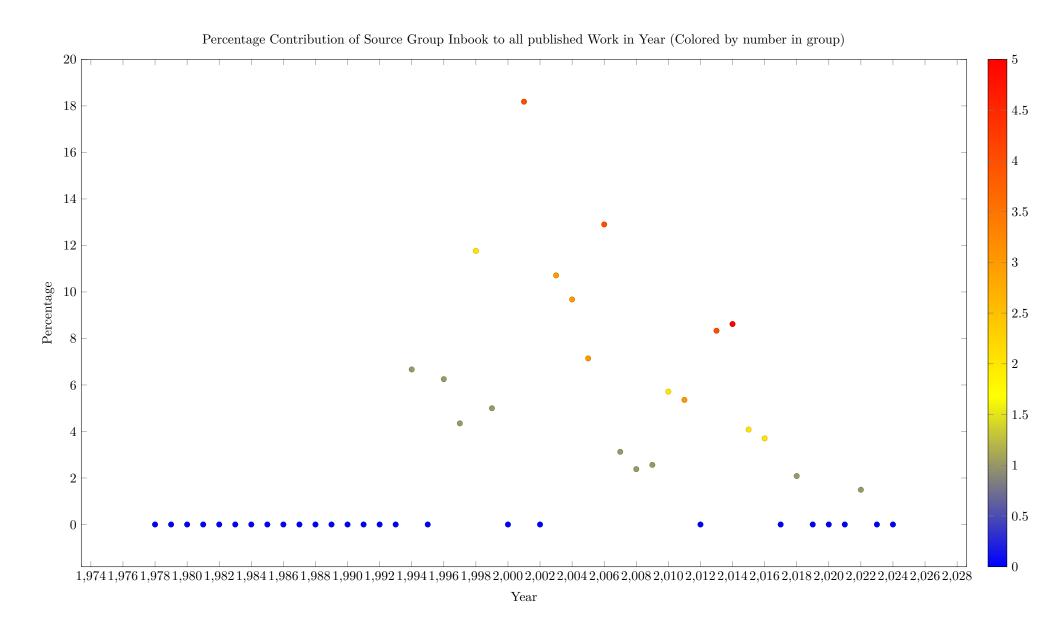
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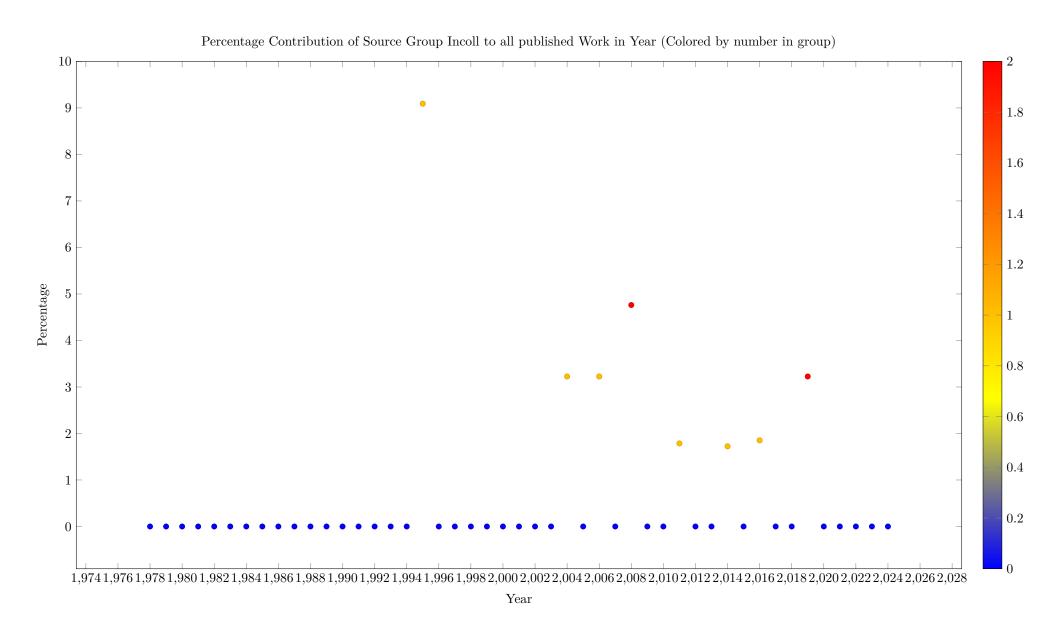


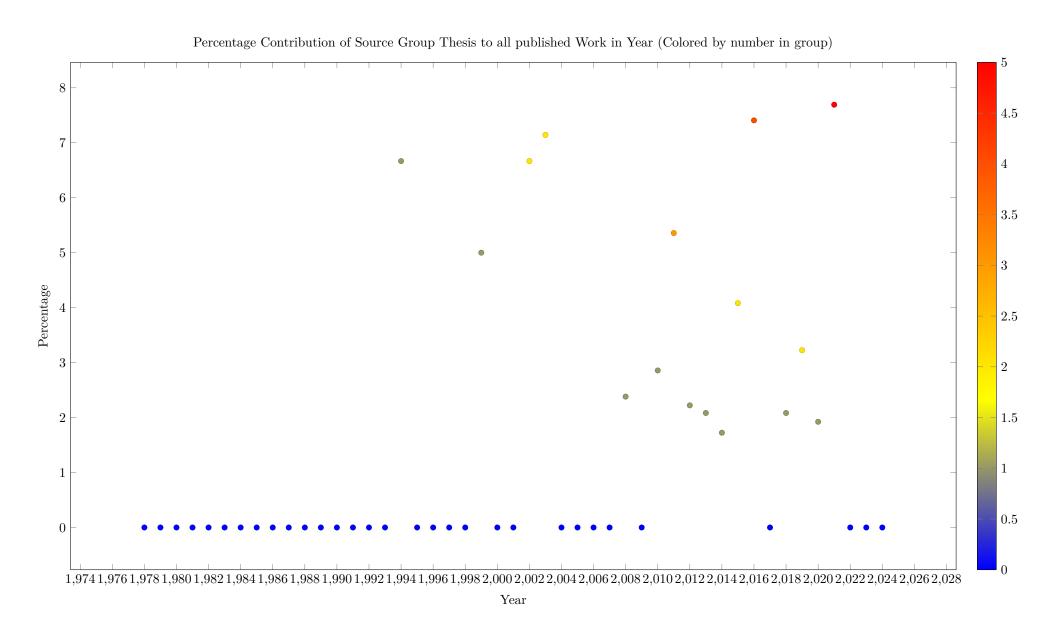




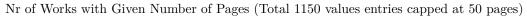


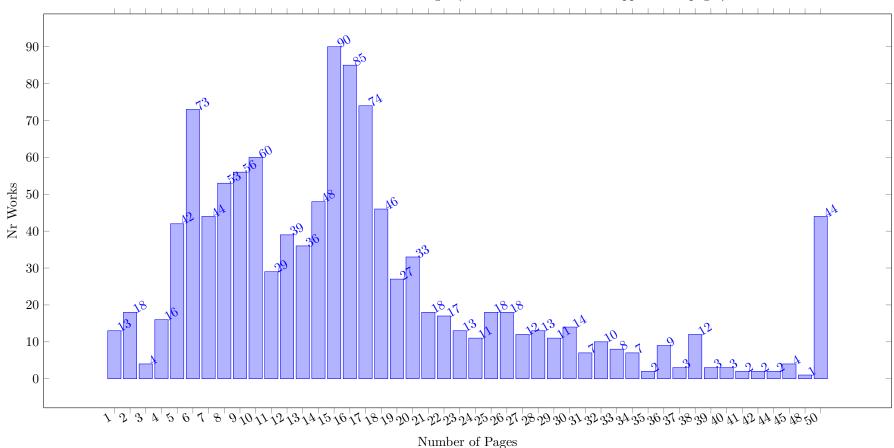




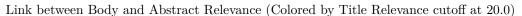


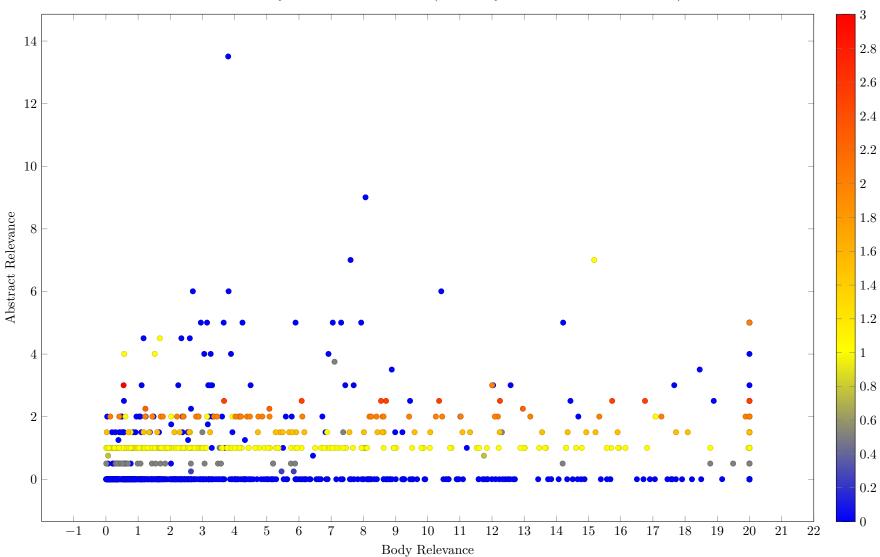
17 Page Length Distribution

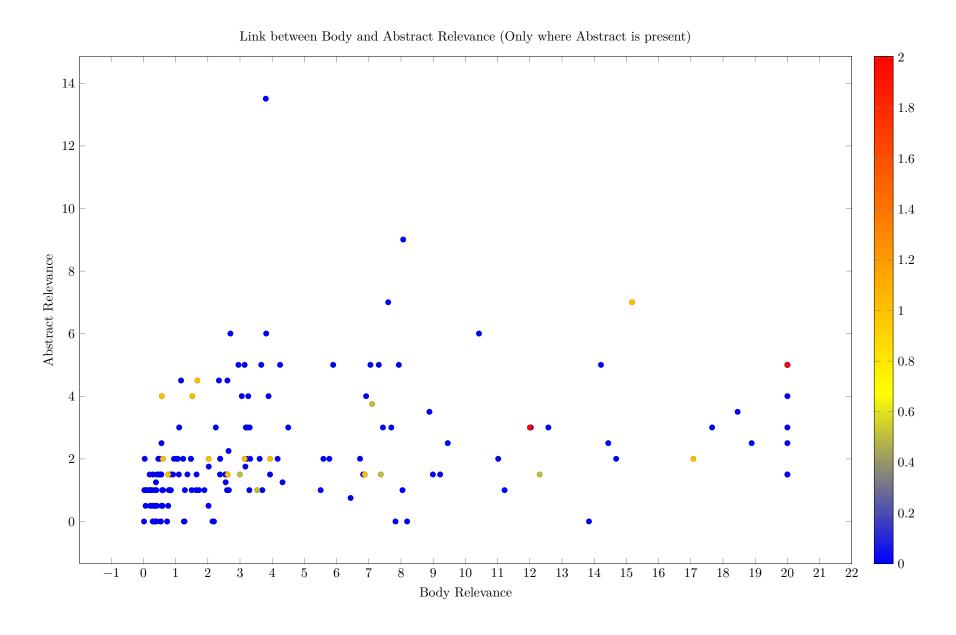


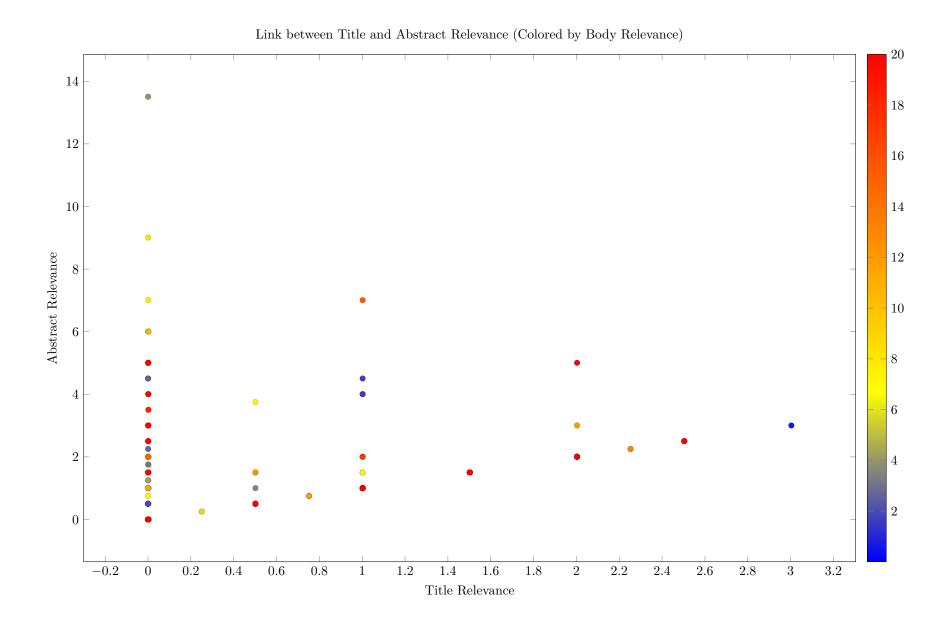


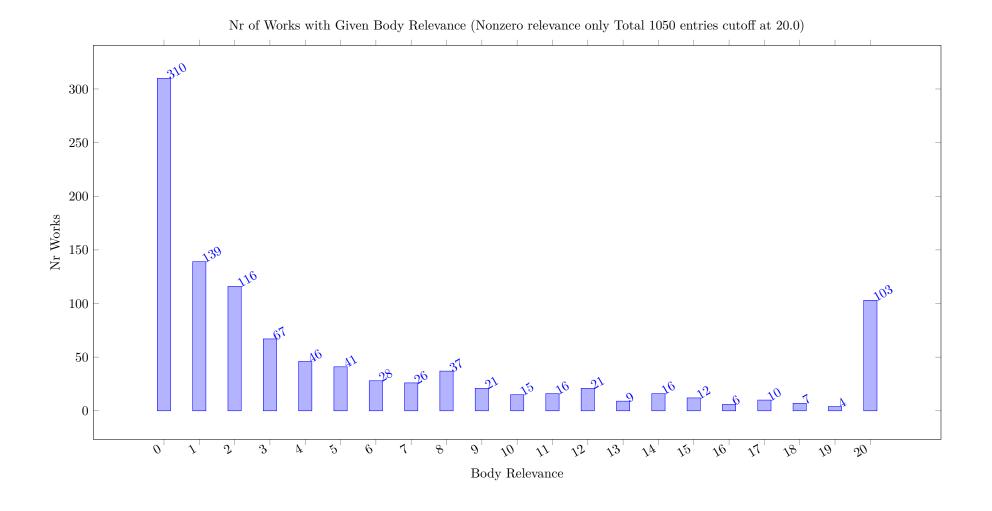
18 Relevance Distribution

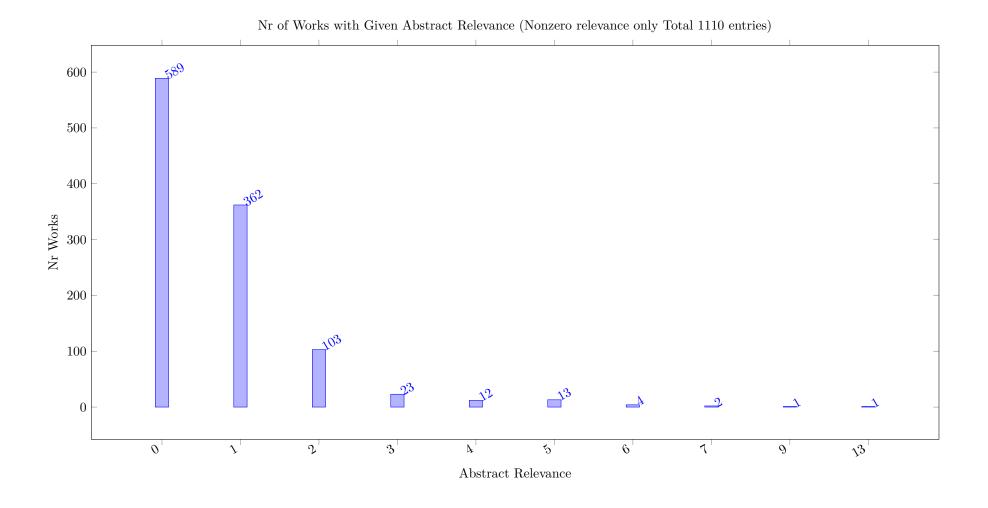


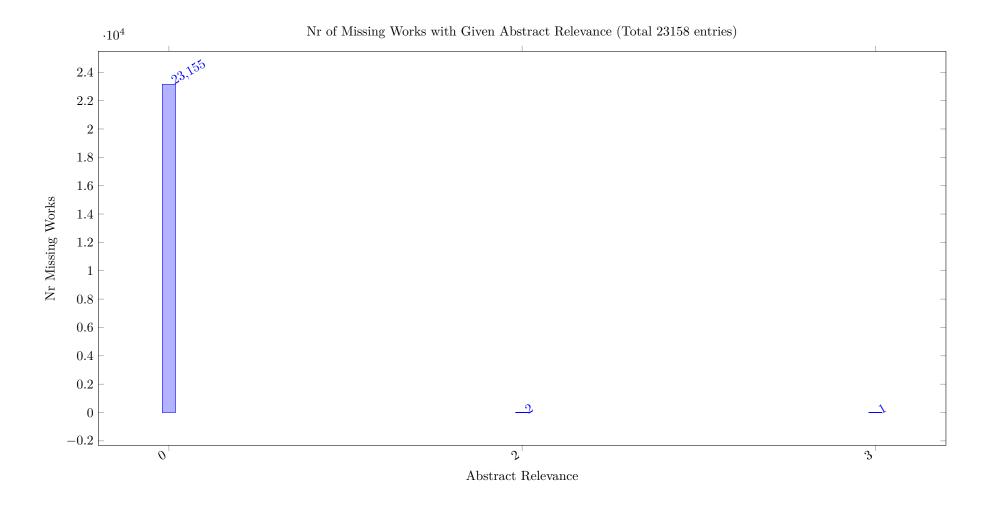


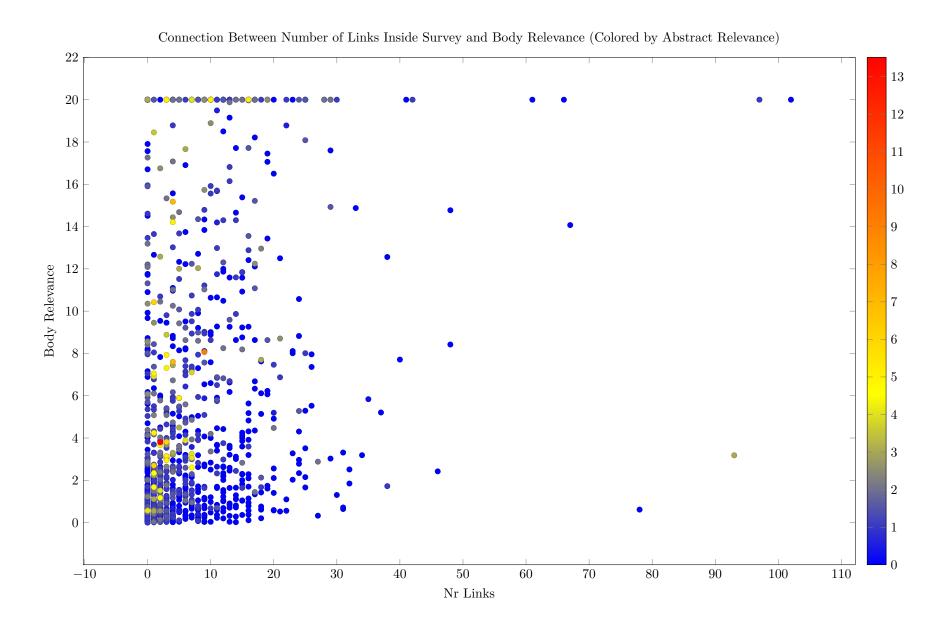


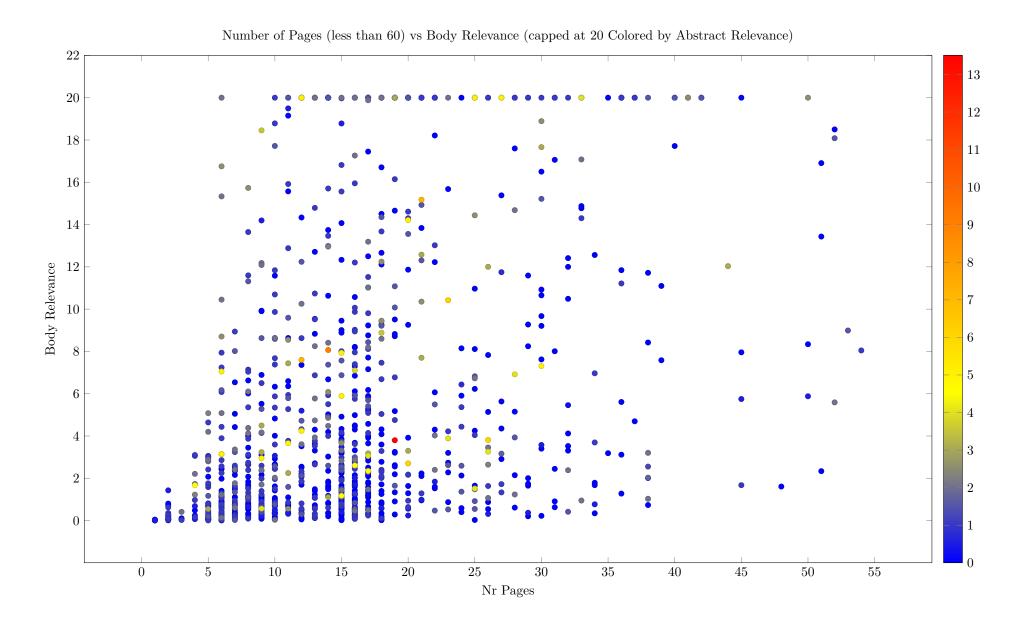






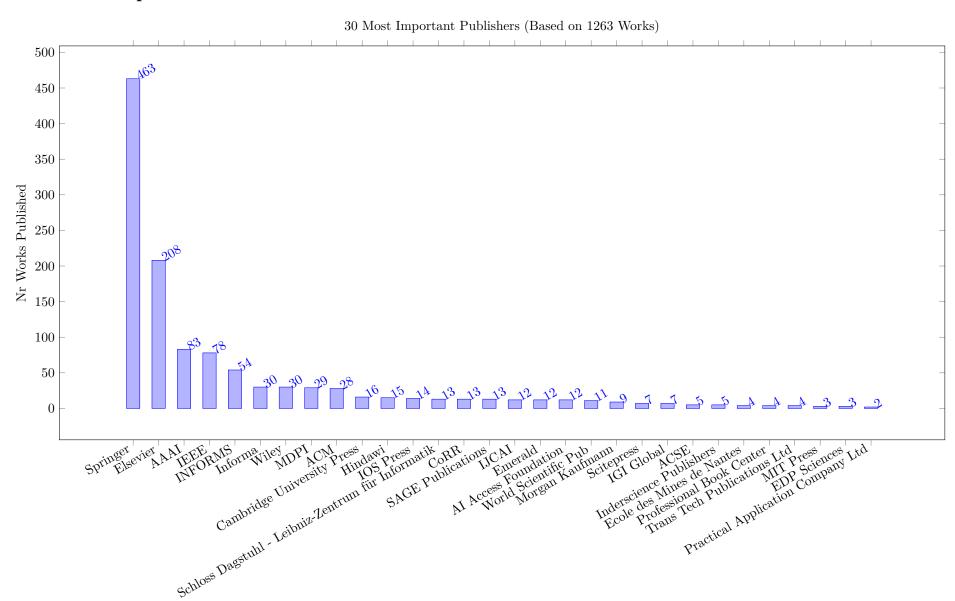


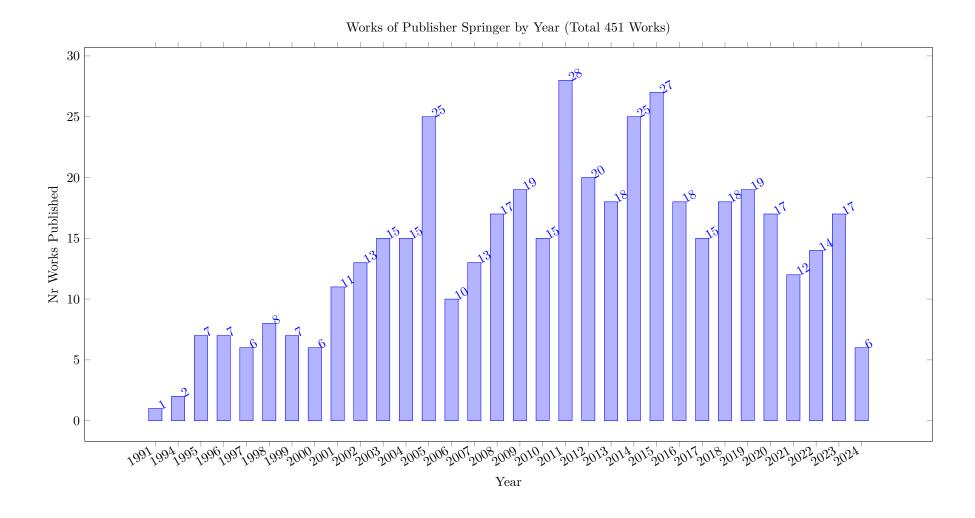


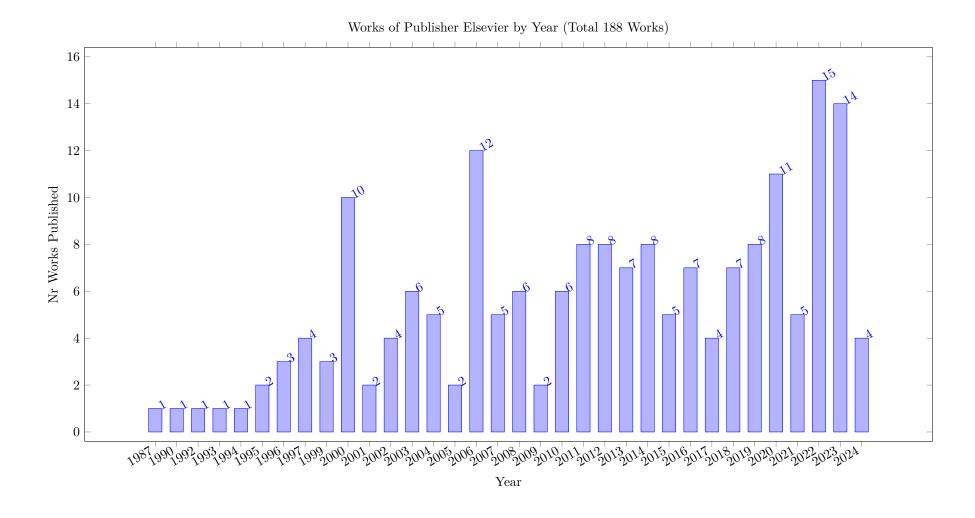


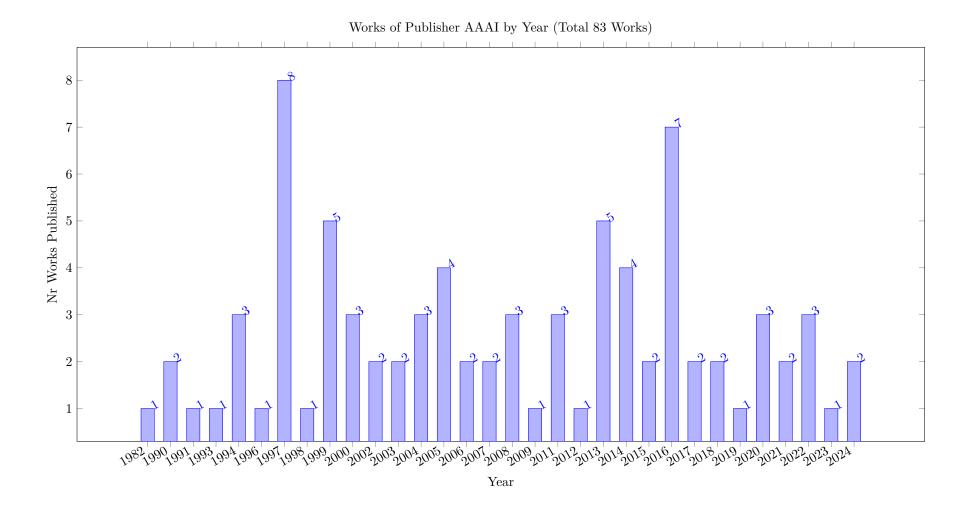
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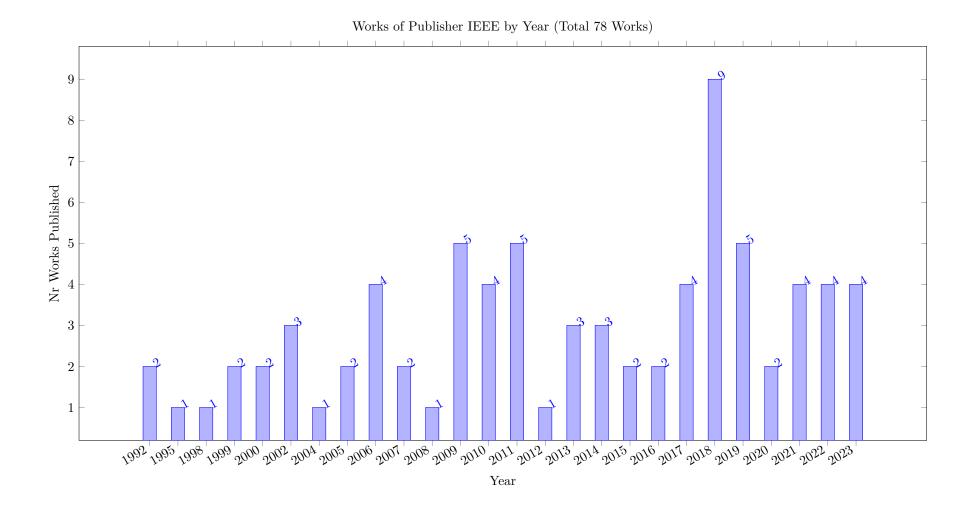
19 Most Important Publishers

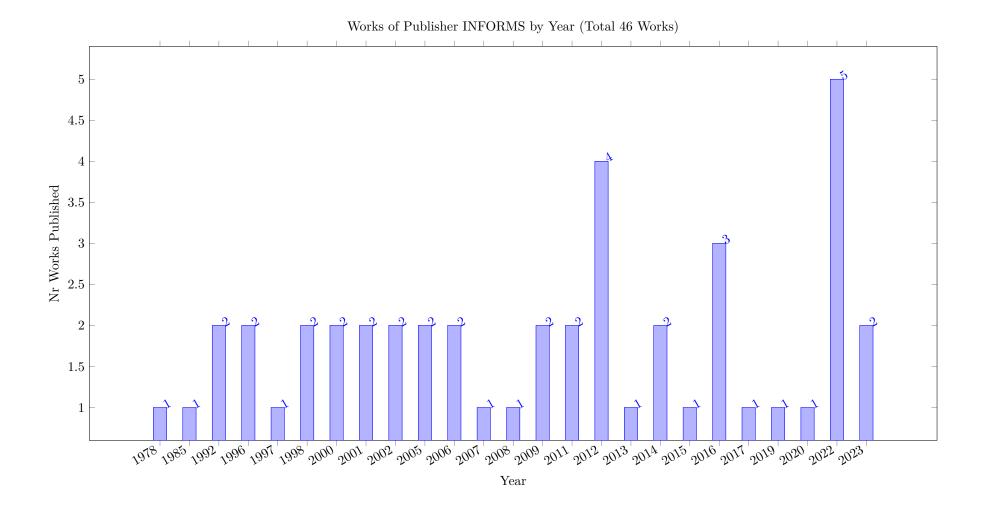


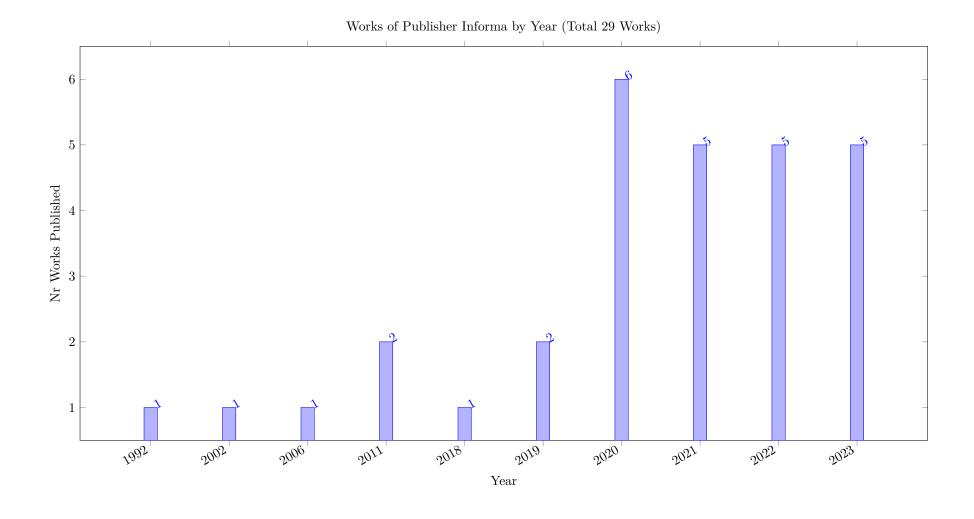


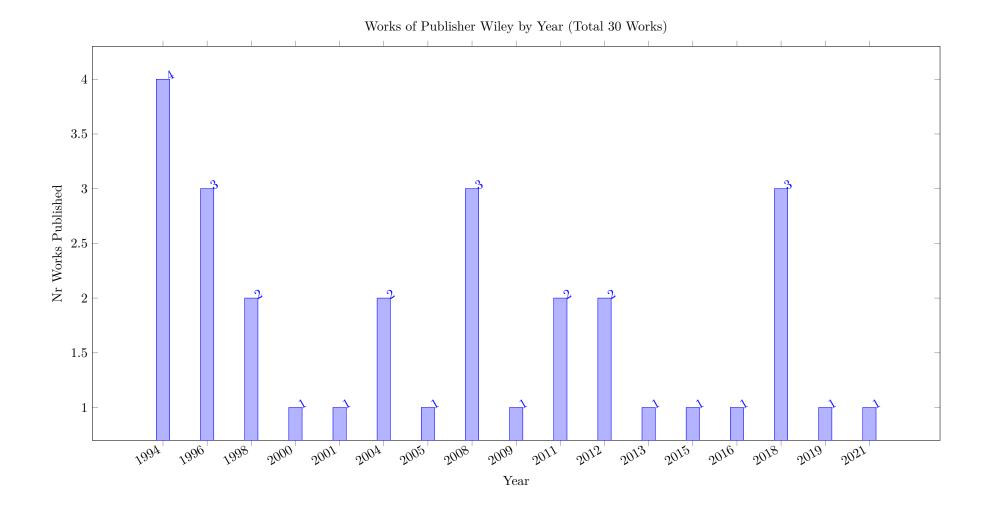


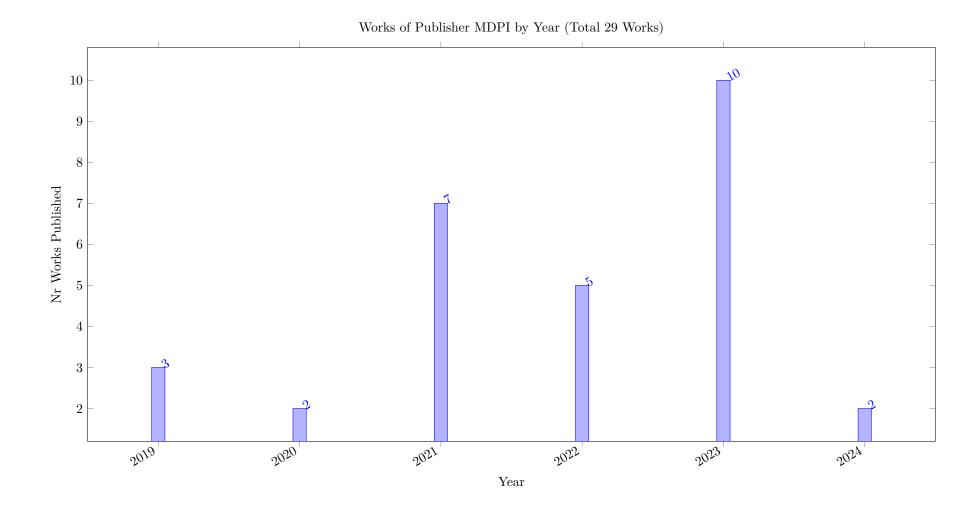


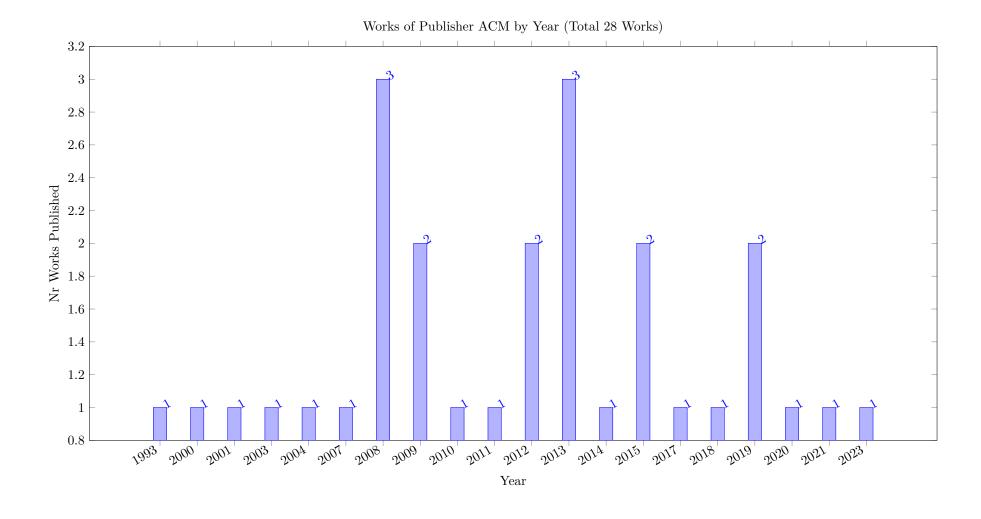


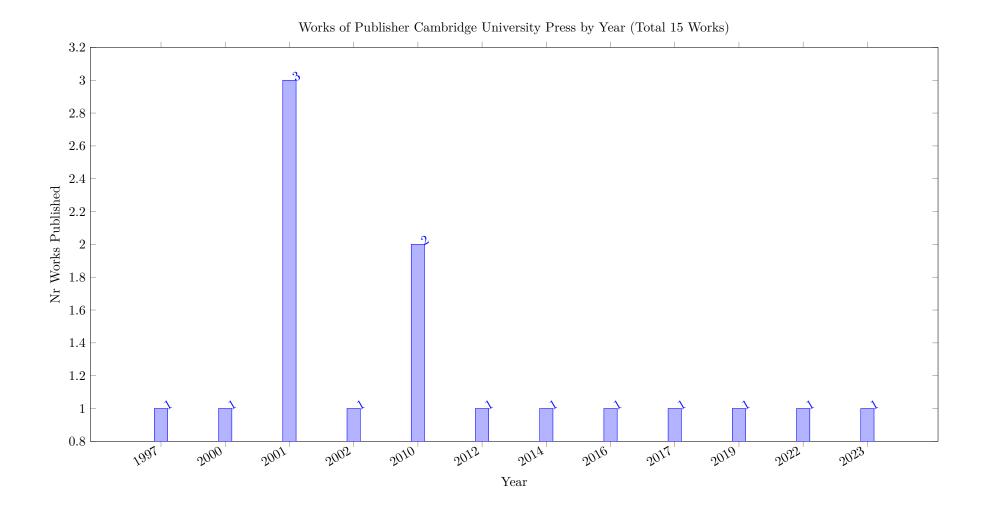


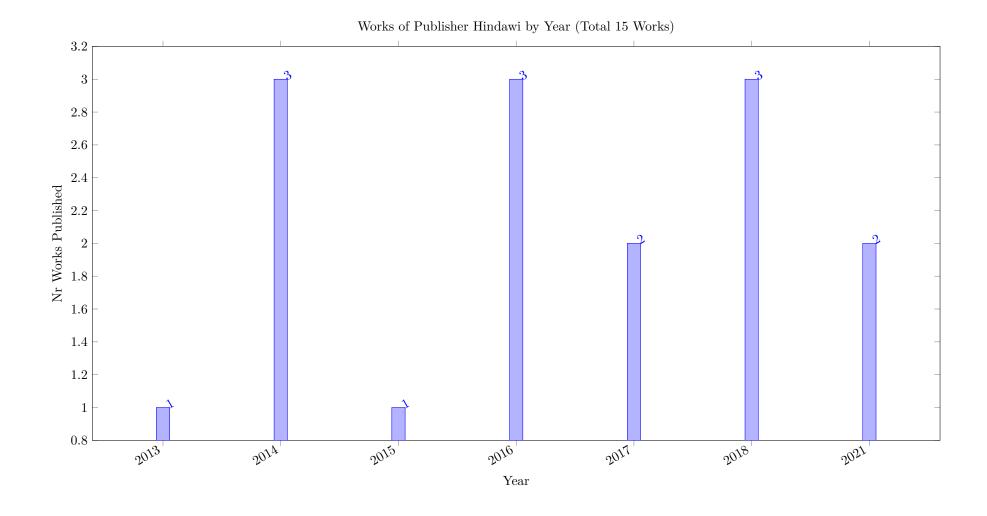


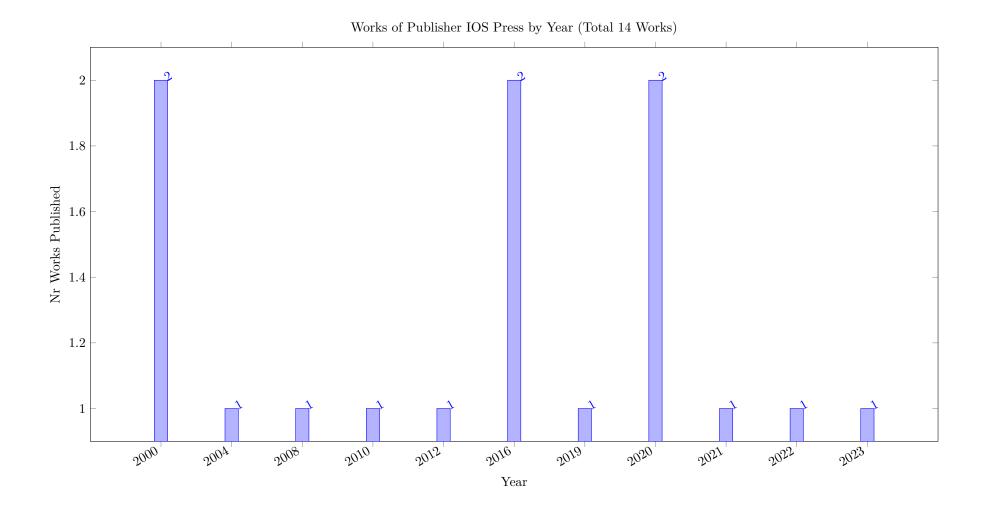


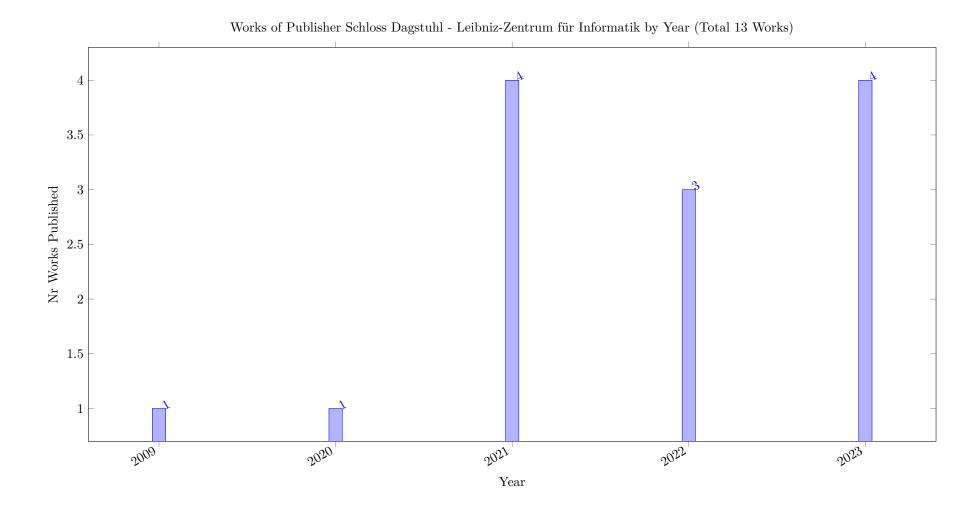


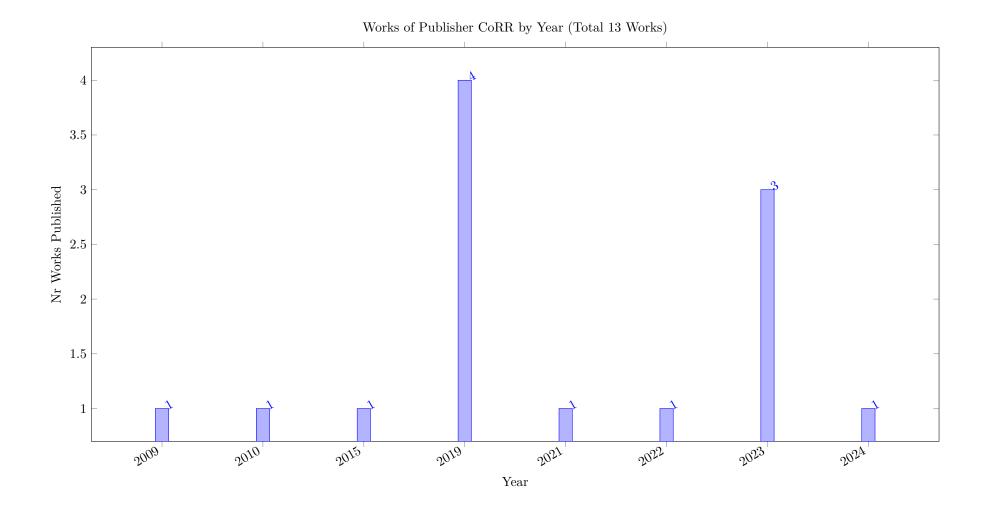


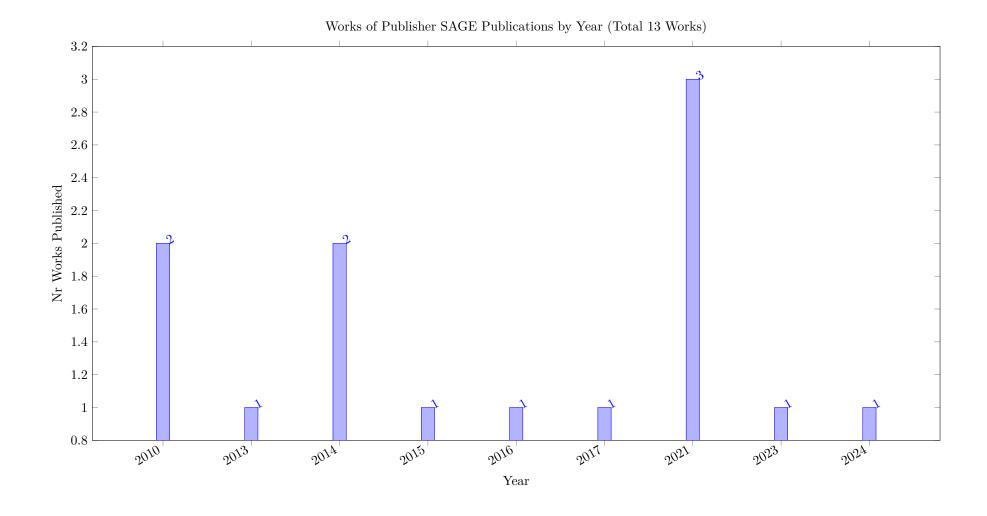


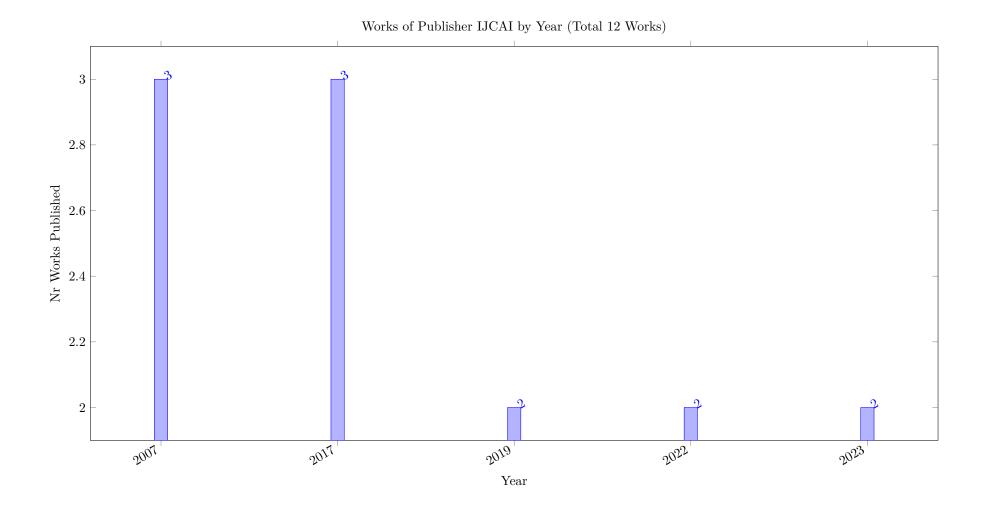


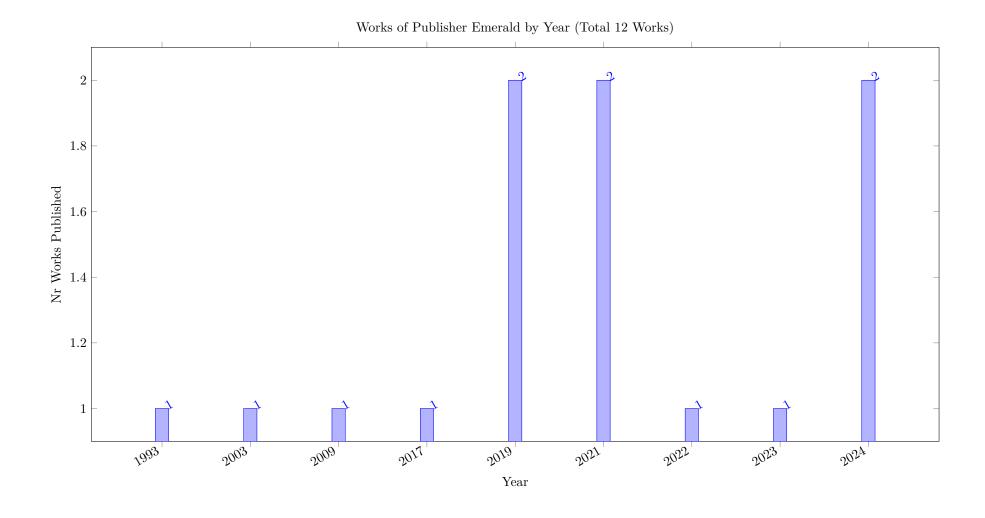


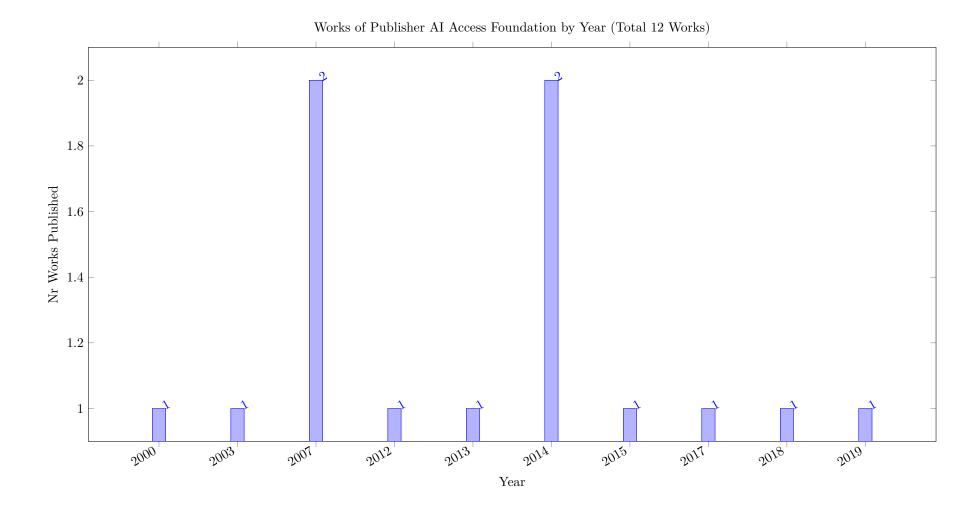


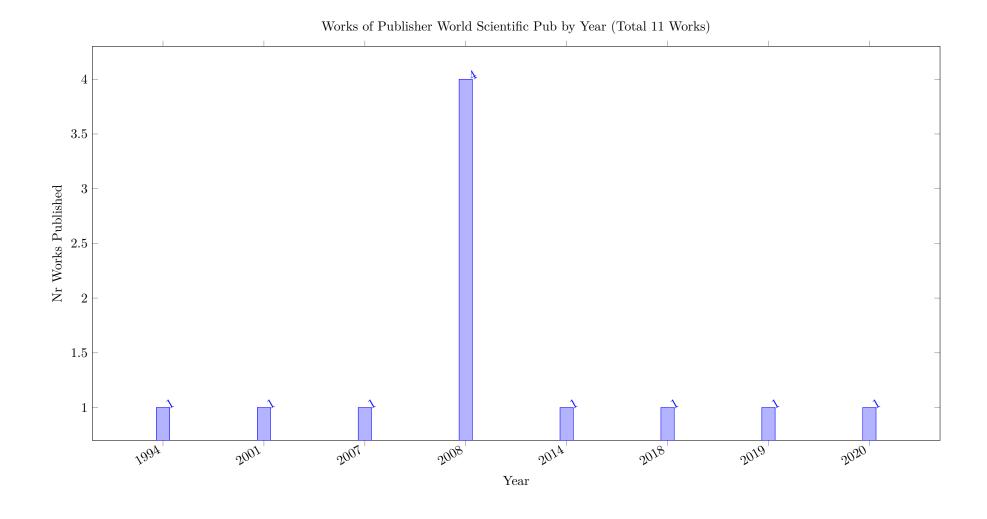


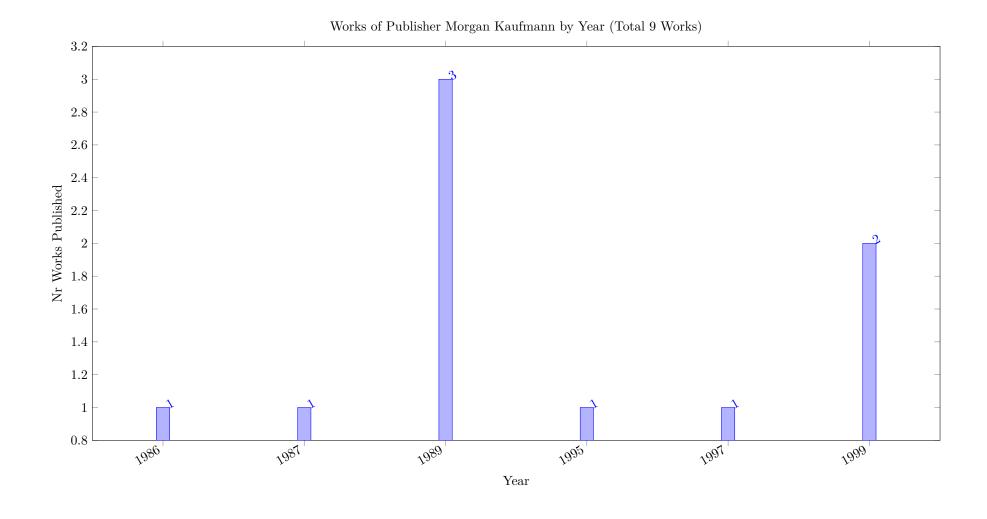


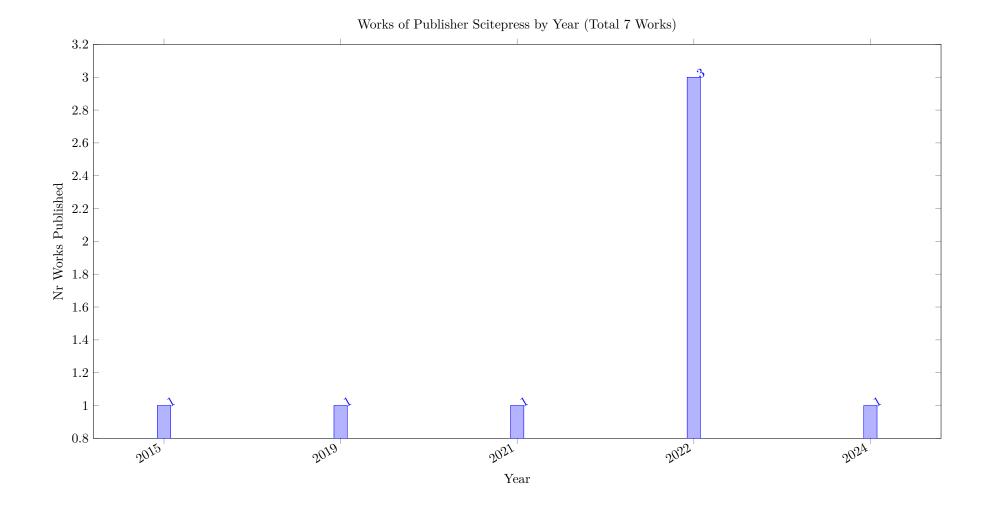


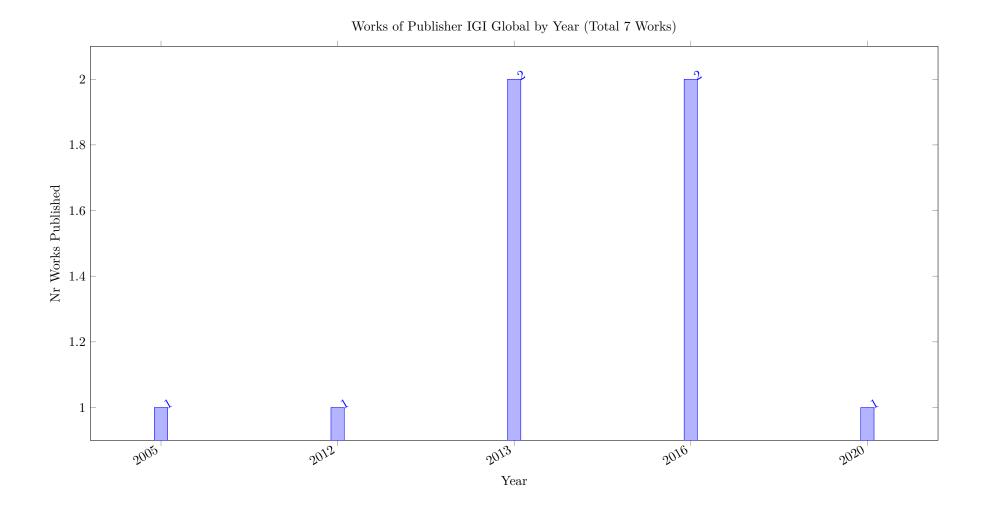


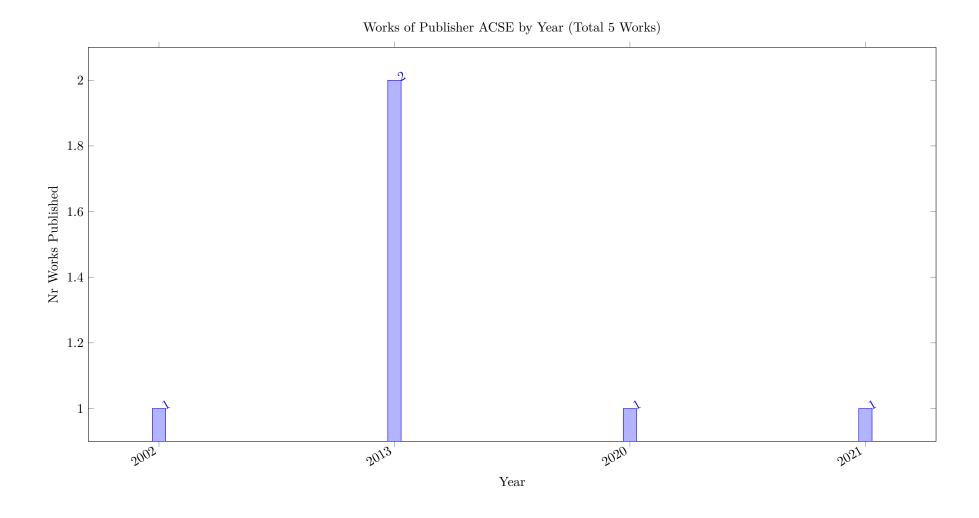


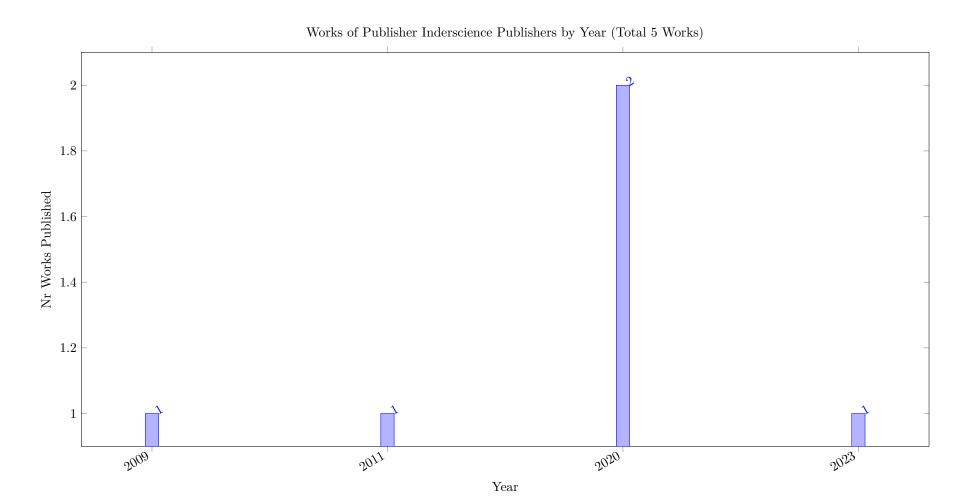


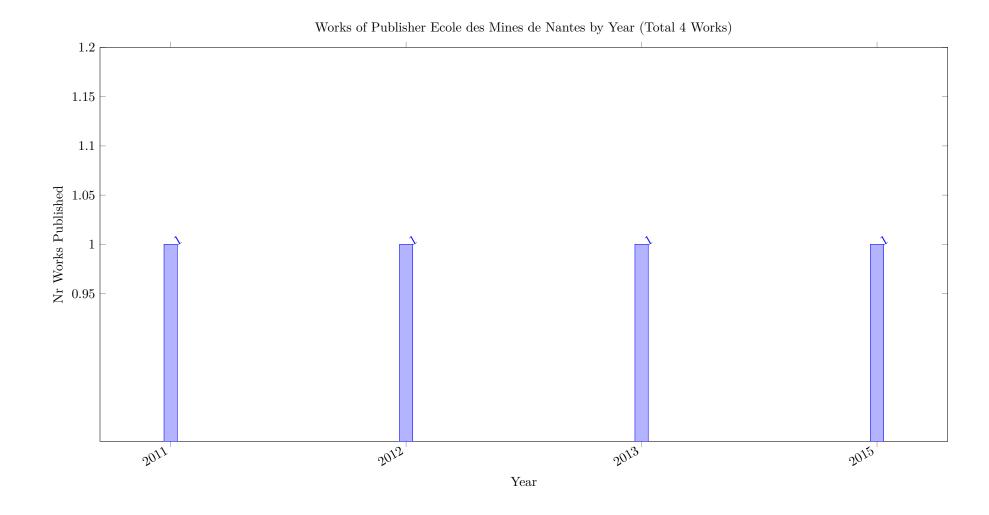




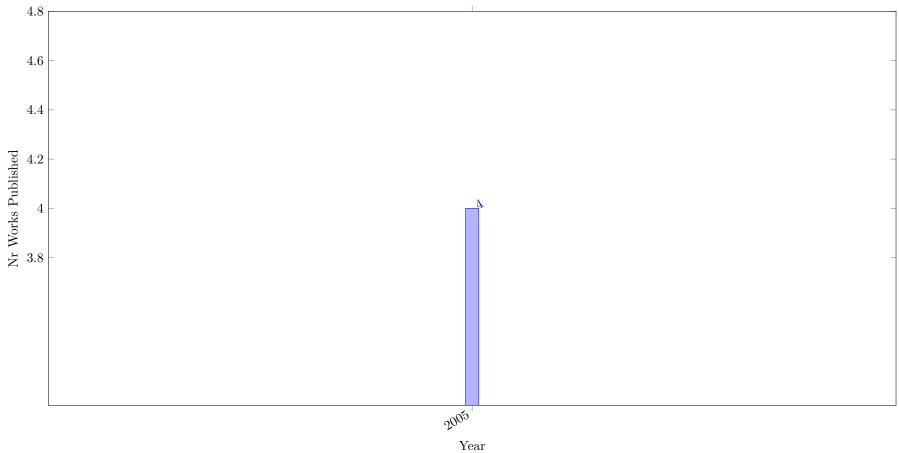


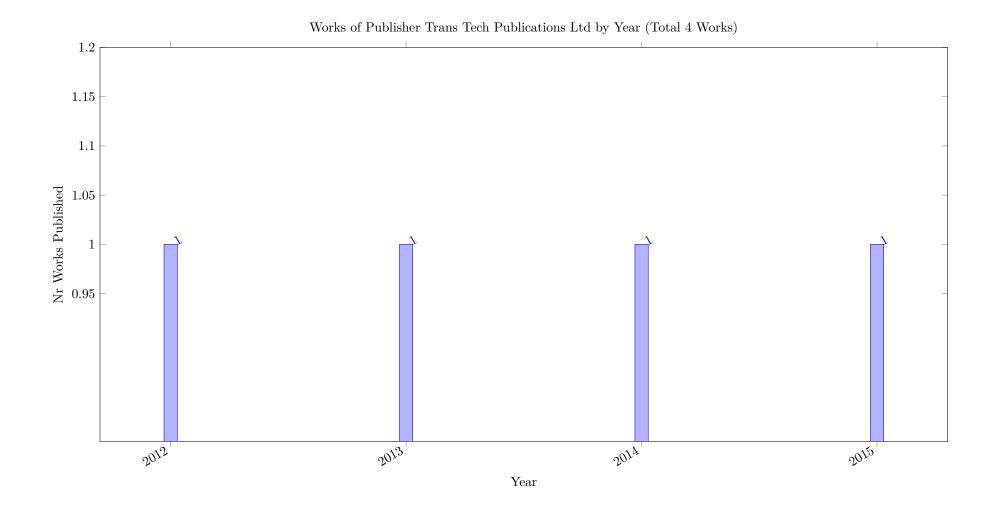


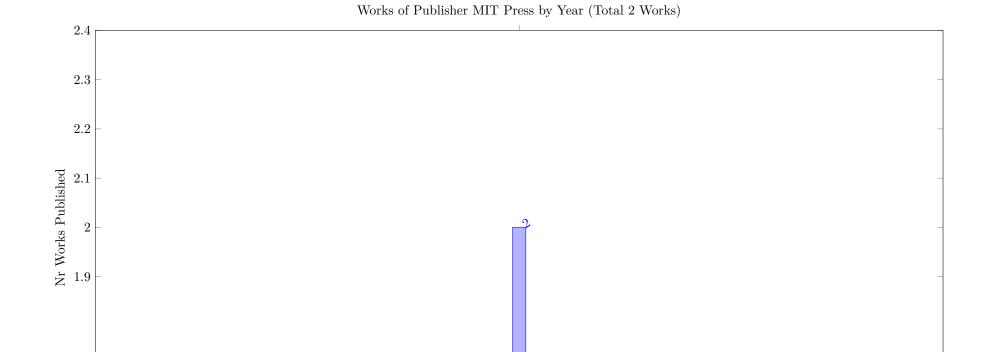






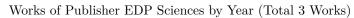


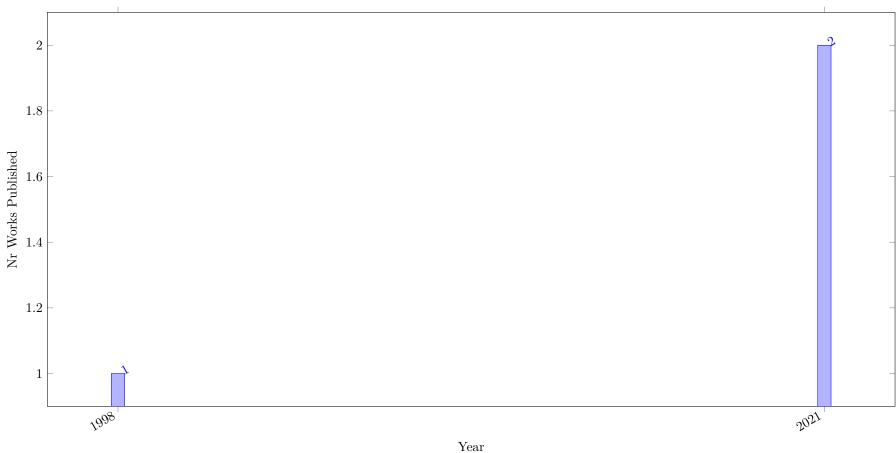




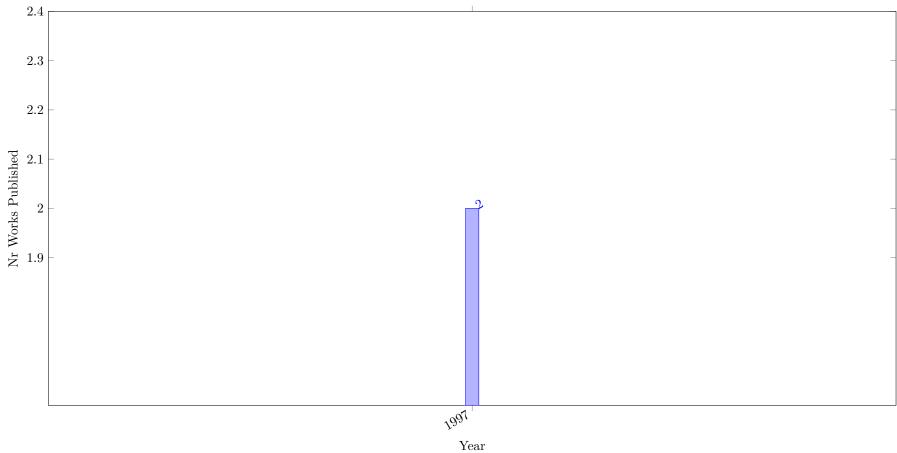
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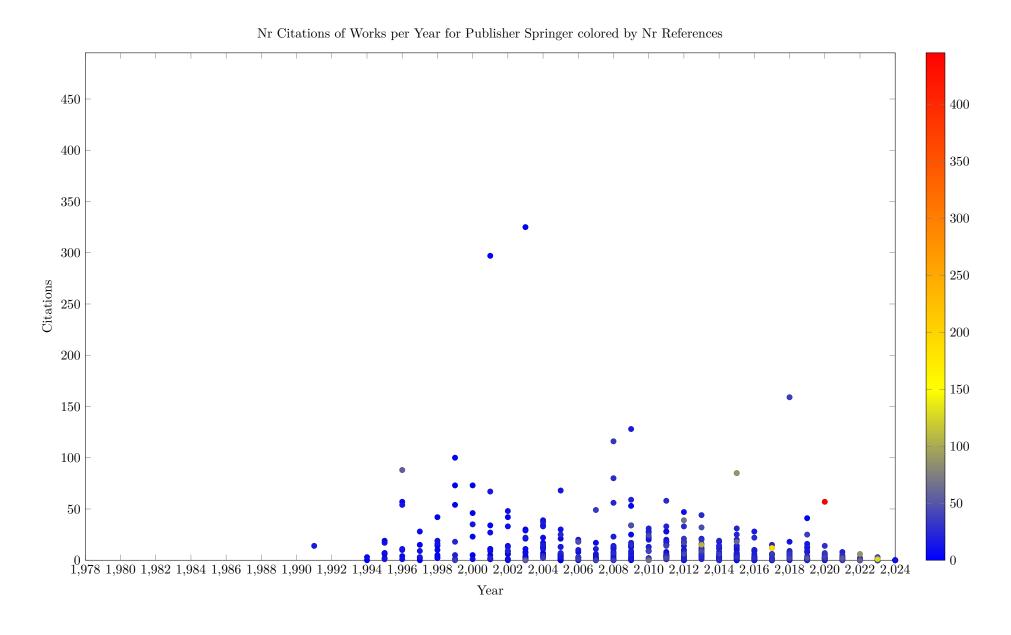
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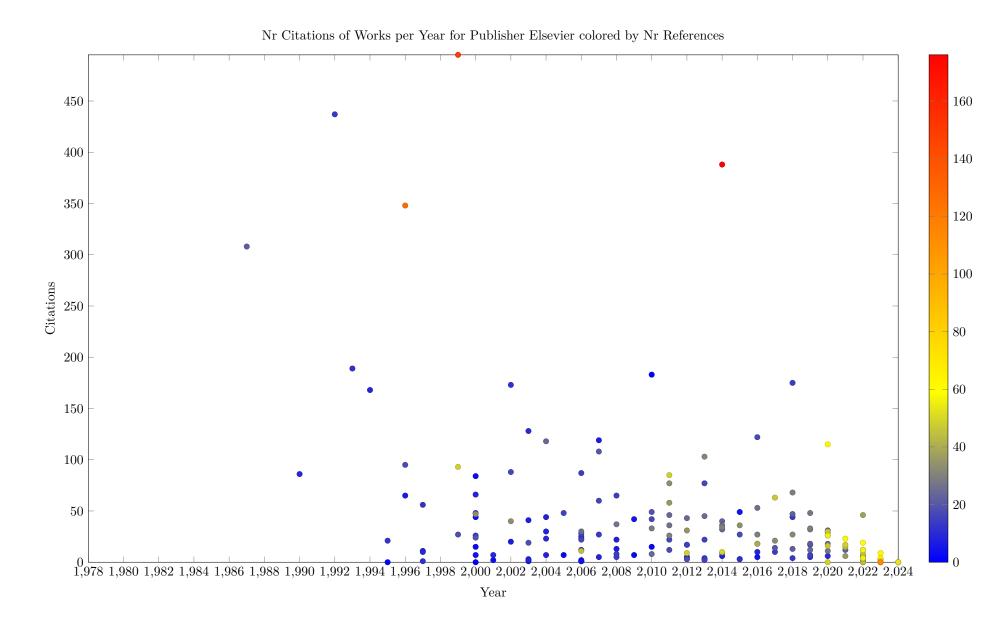


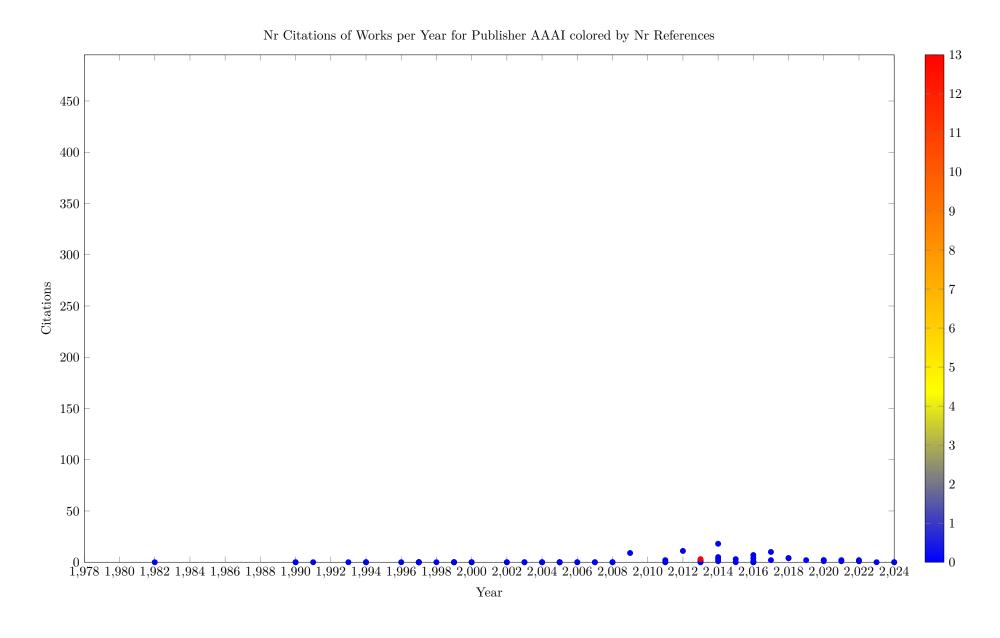


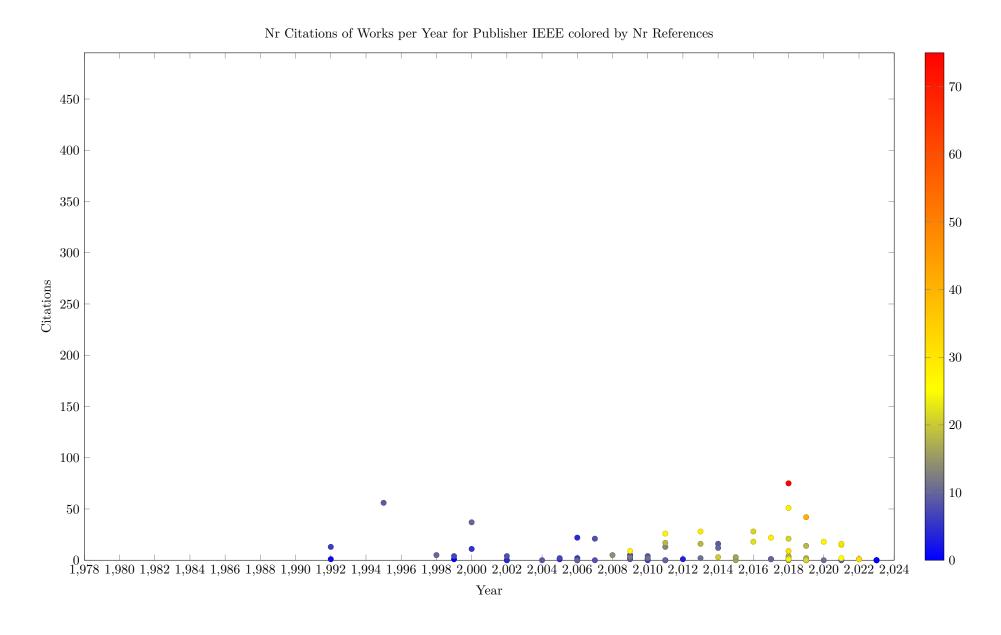


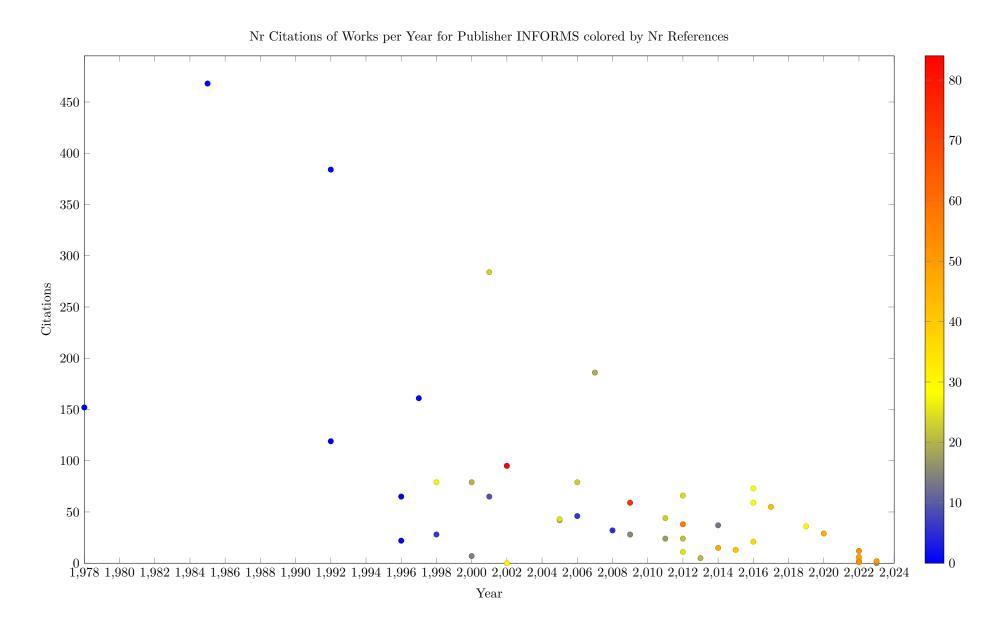


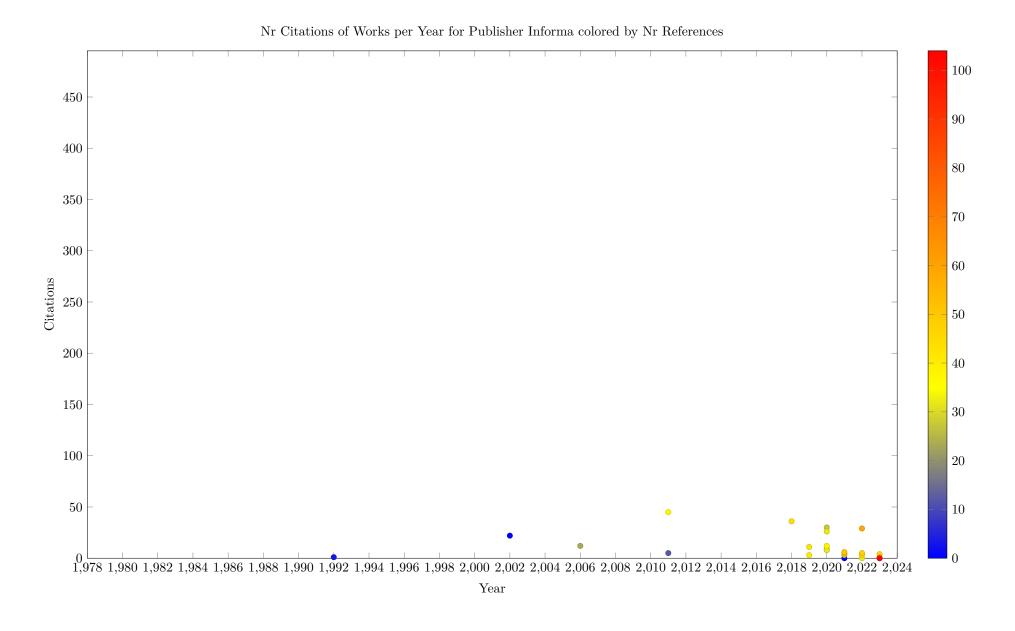


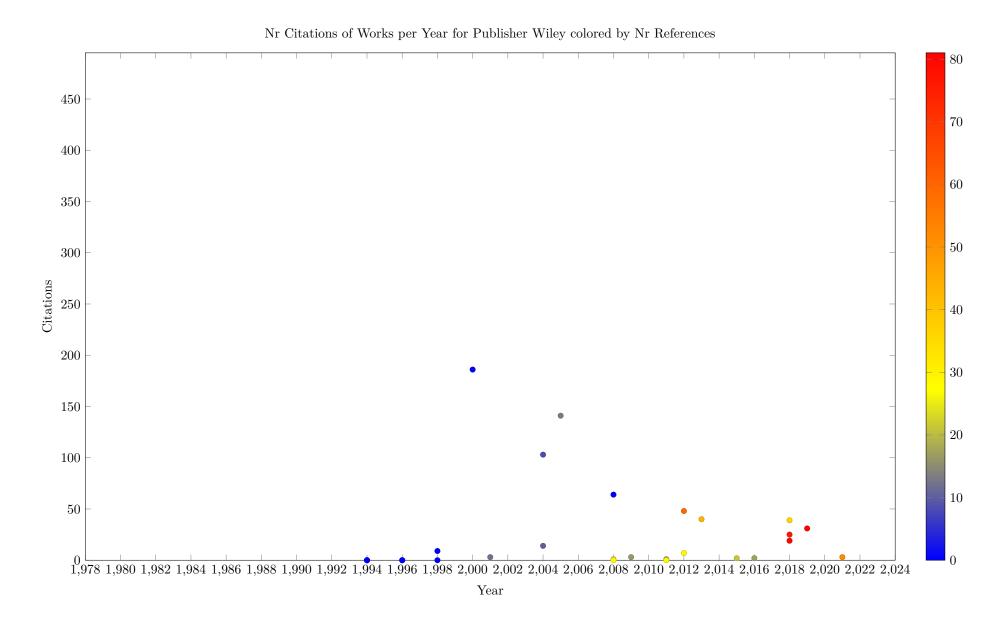


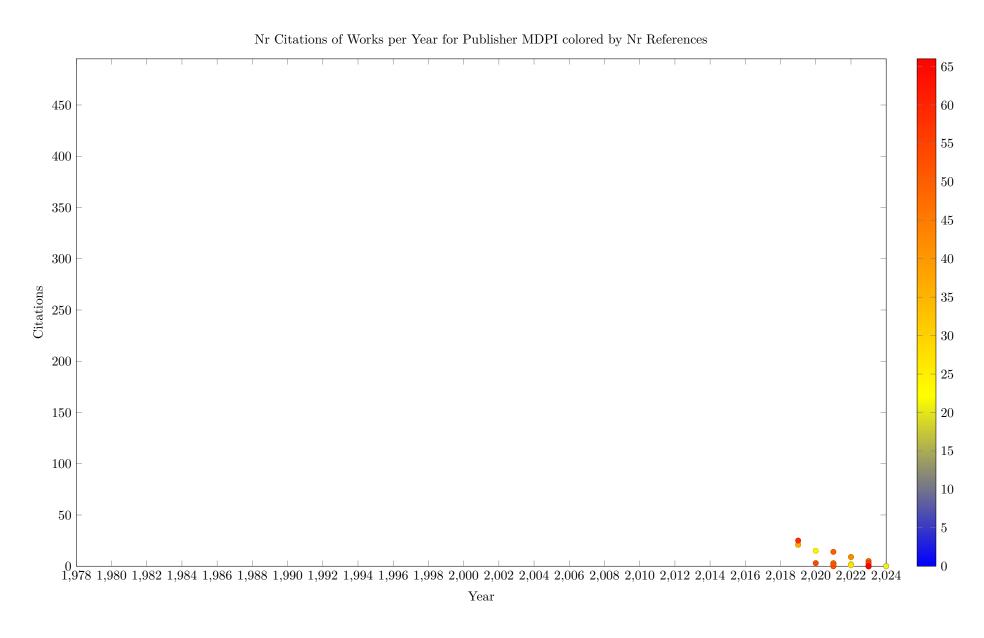


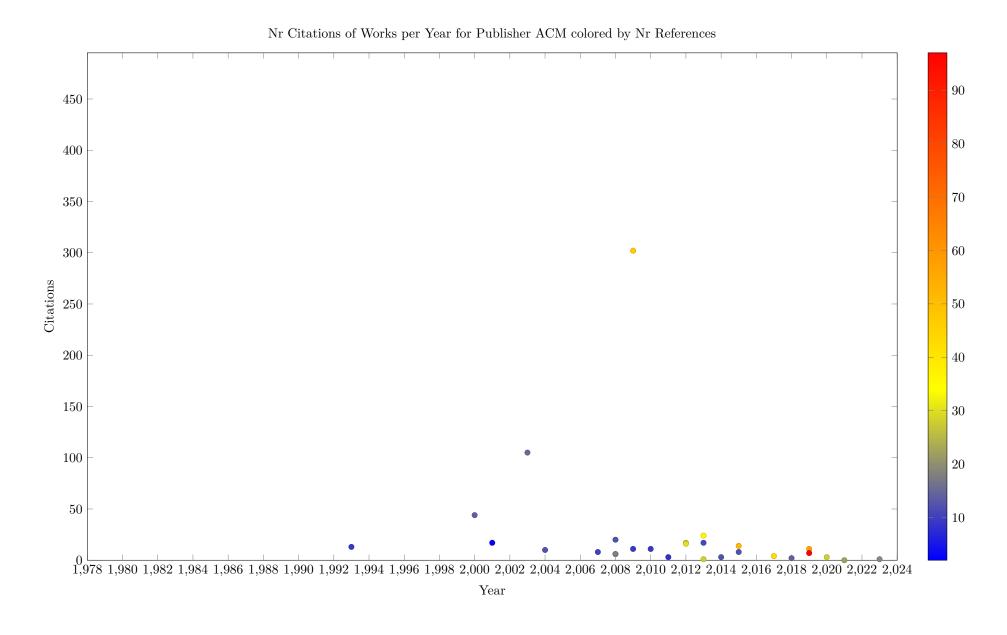


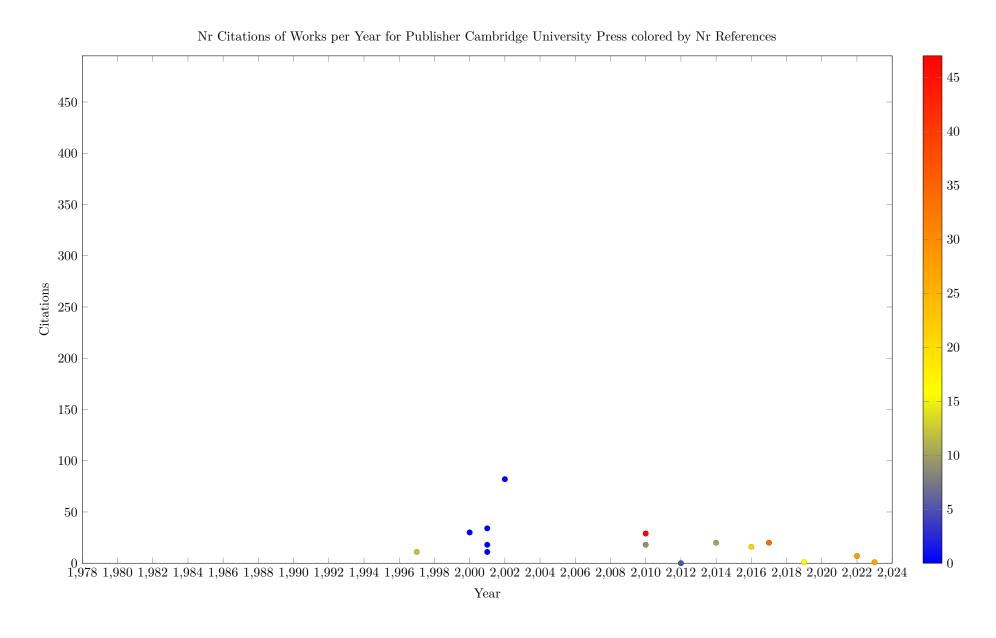


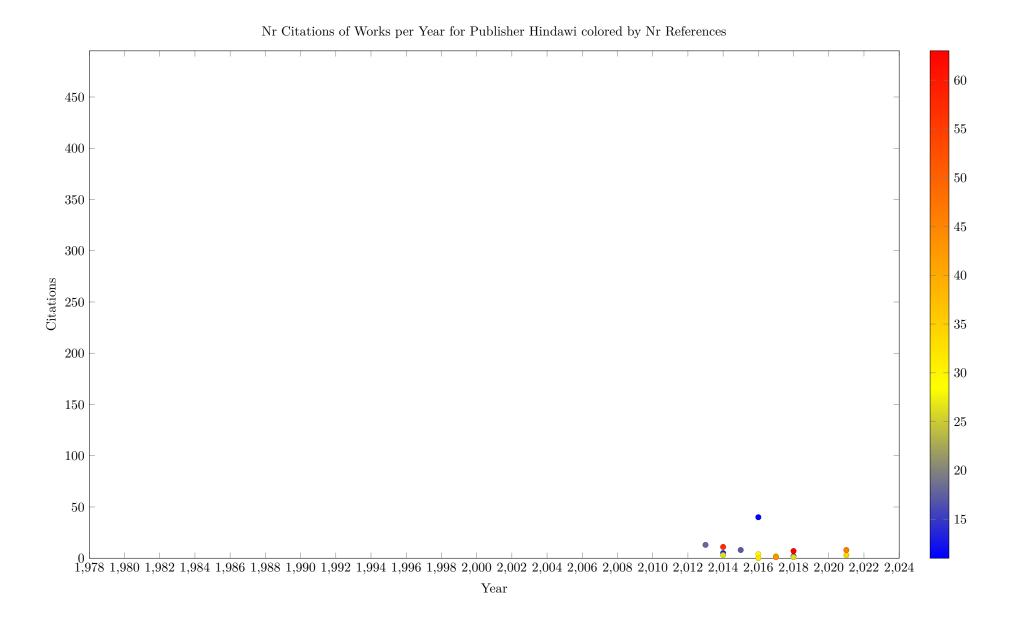


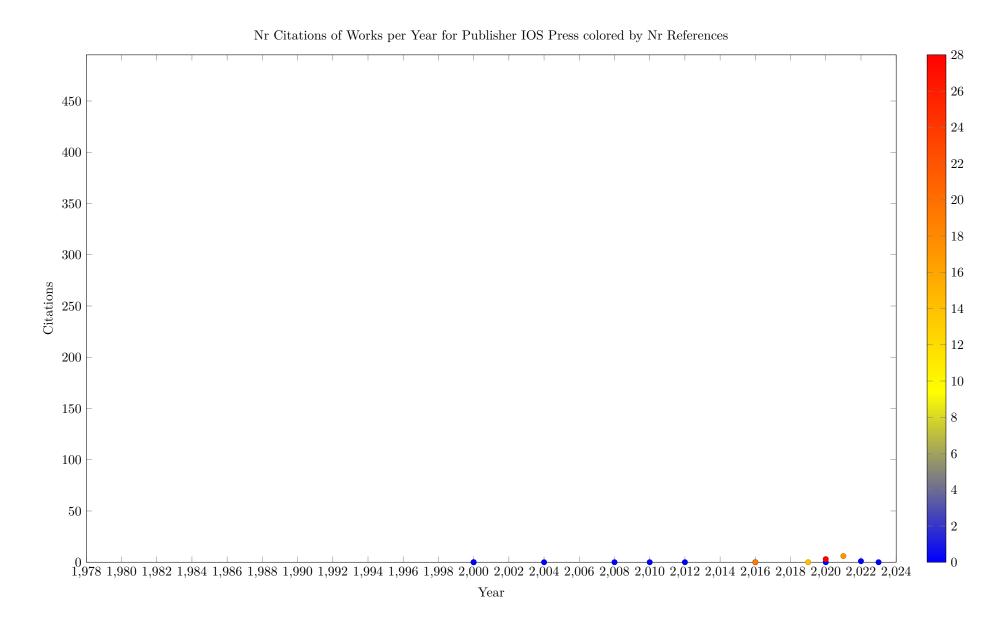


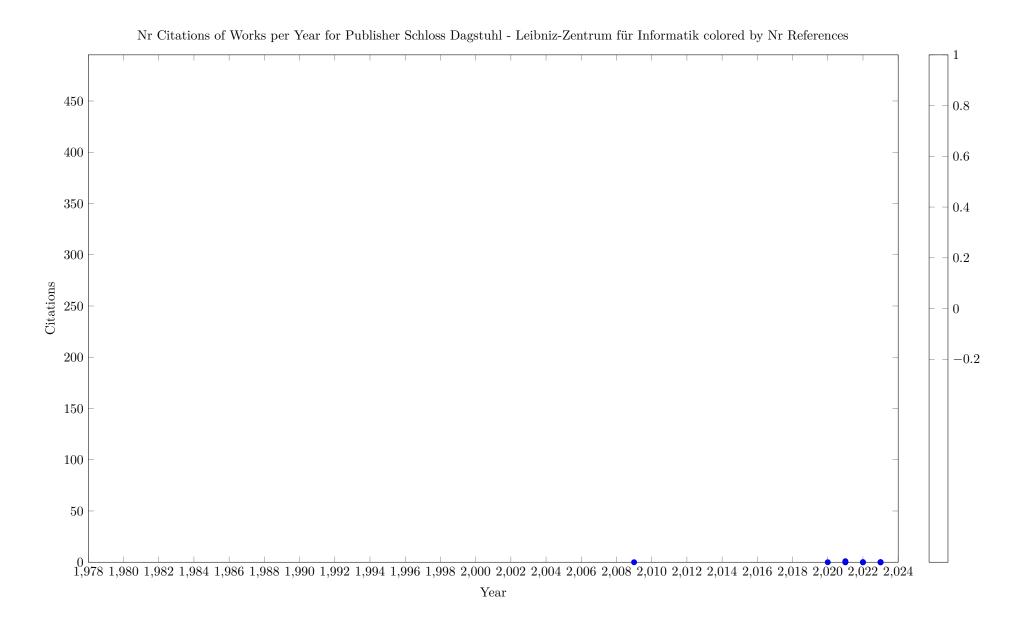


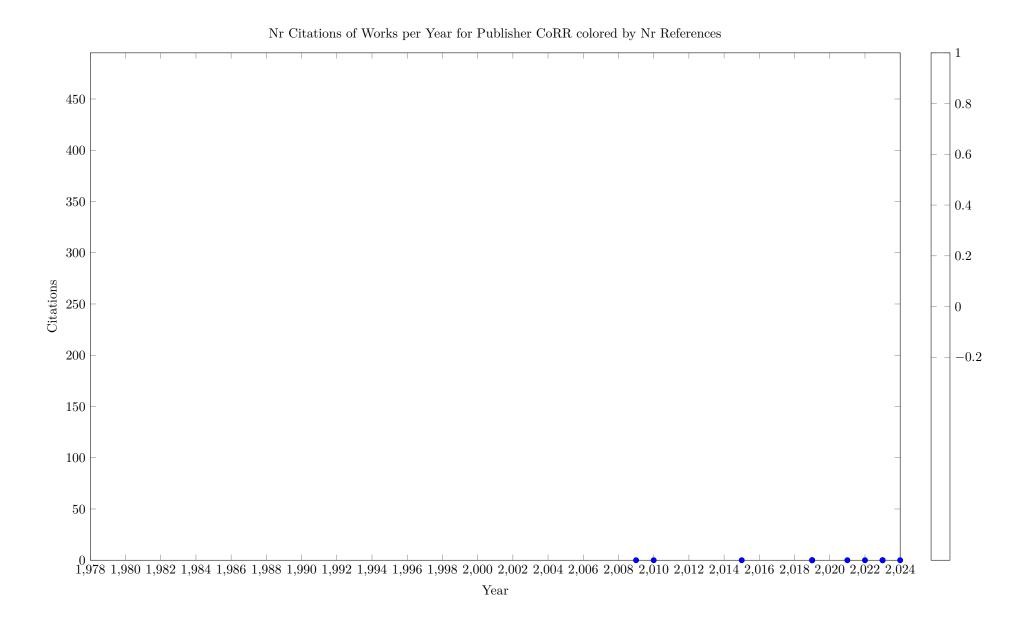












Nr Citations of Works per Year for Publisher SAGE Publications colored by Nr References Citations $1,978 \ 1,980 \ 1,982 \ 1,984 \ 1,986 \ 1,988 \ 1,990 \ 1,992 \ 1,994 \ 1,996 \ 1,998 \ 2,000 \ 2,002 \ 2,004 \ 2,006 \ 2,008 \ 2,010 \ 2,012 \ 2,014 \ 2,016 \ 2,018 \ 2,020 \ 2,022 \ 2,024$

Year

