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.

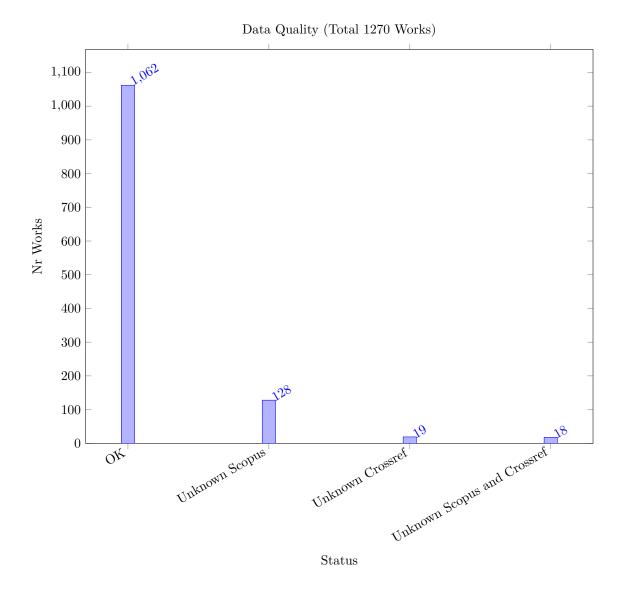


Table 1: Works Unknown to Crossref and Scopus

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
Cloutier24	10.4230/lipics.cp.2024.7	CP	2024	0	0	0	null	0	NaN
Green24	10.4230/lipics.cp.2024.12	$^{\mathrm{CP}}$	2024	0	0	0	null	0	NaN
Le24	10.4230/lipics.cp.2024.18	$^{\mathrm{CP}}$	2024	0	0	0	null	0	NaN
Pucel24	10.4230/lipics.cp.2024.23	CP	2024	0	0	0	null	0	NaN
Verhaeghe24	10.4230/lipics.cp.2024.30	$^{\mathrm{CP}}$	2024	0	0	0	null	0	NaN
Cherif24	10.4230/lipics.cp.2024.34	$^{\mathrm{CP}}$	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-	ORĴournal	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	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	CP	2023	0	0	0	null	0	NaN
AalianPG23	10.4230/lipics.cp.2023.6	CP	2023	0	0	0	null	0	NaN
KameugneFND23	10.4230/lipics.cp.2023.20	CP	2023	0	0	0	null	0	NaN
BoudreaultSLQ22	10.4230/lipics.cp.2022.10	CP	2022	0	0	0	null	0	NaN
PopovicCGNC22	10.4230/lipics.cp.2022.34	CP	2022	0	0	0	null	0	NaN
WinterMMW22	10.4230/lipics.cp.2022.41	CP	2022	0	0	0	null	0	NaN
ArmstrongGOS21	10.4230/lipics.cp.2021.16	CP	2021	1	0	1	null	1	100.00
AntuoriHHEN21	10.4230/lipics.cp.2021.14	CP	2021	0	0	1	null	1	100.00
KovacsTKSG21	10.4230/lipics.cp.2021.36	CP	2021	0	0	4	null	4	100.00
LacknerMMWW21	10.4230/lipics.cp.2021.37	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	10.1007/978-3-031-60597-0 17	CPAIOR	2024	0	0	0	null	0	NaN
Barral2024	10.1007/978-3-031-60597-0 3	CPAIOR	2024	ő	ő	ő	null	Ö	NaN
Thomas 2024	10.1007/978-3-031-60599-4 13	CPAIOR	2024	0	0	0	null	0	NaN
Houten2024	10.1007/978-3-031-60599-4 15	CPAIOR	2024	0	0	0	null	ő	NaN
Infantes2024	10.1007/978-3-031-60597-0 21	CPAIOR	2024	0	0	0	null	ő	NaN
Caballero23	10.1007/s10601-023-09357-0	Constraints	2023	0	0	0	null	0	NaN
NaderiBZ23	10.2139/ssrn.4494381	Preprint	2023	0	0	0	null	ő	NaN
GunerGSKD23	10.1080/00207543.2023.2226772	OtherJournal	2023	0	3	0	null	3	100.00
IklassovMR023	10.24963/ijcai.2023/594	IJCAI	2023	0	0	0	null	0	NaN
Lyons2023	10.3390/analytics2030036	OtherJournal	2023	0	0	0	null	0	NaN
Bley2023	10.1007/978-3-031-24907-5 68	OtherConf	2023	0	0	0	null	0	NaN
Akan2023	10.33714/masteb.1324266	OtherJournal	2023	0	0	0	null	0	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.4140710 10.2139/ssrn.4068164	Preprint	2022	0	0	0	null	0	NaN
NaderiR22	10.1287/sim.4008104 10.1287/ijoo.2021.0056	ORJournal	2022	6	7	0	null	7	100.00
KotarvFH22	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	10.11009/tase.2019.2947398	OtherJournal	2022	16	19	0	null	19	100.00
GeibingerMM21	10.1109/tase.2019.2947398 10.1609/aaai.v35i7.16789	AAAI	2021	10	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	Other Journal	2021	5	6	0	null	6	100.00
Strak2021	10.5937/tehnika2102239s	OtherJournal	2021	0	0	0	null	0	NaN
Eiter2021	,	OtherConf	2021	6	7	0	null	7	100.00
Rodler2021	10.24963/kr.2021/27 10.24963/kr.2021/72	OtherConf	2021	1	1	0	null	1	100.00
GodetLHS20	10.1609/aaai.v34i02.5510	AAAI	2021	1	1	0	null	1	100.00
FallahiAC20		OtherJournal	2020	0	0	0	null	0	100.00 NaN
	10.1504/ijams.2020.10026882	ICAPS	2020	2	$\frac{0}{2}$	0		2	
KletzanderM20	10.1609/icaps.v30i1.6688			_		0	null		100.00
AbidinK20	10.1016/j.cor.2020.105069	ORJournal	2020	11	14		null	14	100.00
Danzinger2020 NishikawaSTT19	10.1609/icaps.v30i1.6681	ICAPS OtherJournal	$2020 \\ 2019$	2 3	2 3	0	null	2 3	100.00
	10.15803/ijnc.9.2_131						null		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		0	null	2	100.00
PinarbasiAY19	10.1108/aa-12-2018-0262	OtherJournal	2019	16	18	0	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	-	0	null	1	100.00
RiahiNS018	10.1609/icaps.v28i1.13895	ICAPS	2018	4	4	0	null	4	100.00
AgussurjaKL18	10.1609/aaai.v32i1.12086	AAAI	2018	4	4	0	null	4	100.00
TranVNB17a	10.24963/ijcai.2017/726	IJCAI	2017	1	1	0	null	1	100.00
Laborie2017	10.1609/icaps.v27i1.13844	ICAPS	2017	2	2	0	null	2	100.00
Gonzlez2017	10.1609/icaps.v27i1.13809	ICAPS	2017	10	12	0	null	12	100.00
Bonfietti16	10.3233/ia-160095	AlJournal	2016	0	0	0	null	0	NaN
TranDRFWOVB16	10.1609/socs.v7i1.18390	OtherConf	2016	7	9	0	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

Section 2 DATA QUALITY 4

Kev	DOI	Source Group	Year	Nr Citations	Crossref Citations	Scopus Citations	WoS Citations	Range Citations	Range Percentage
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	$\frac{2015}{2015}$	5	5	0	null	5	100.00
FriedrichFMRSST14	10.1007/978-3-319-28697-6 23	OtherConf	$\frac{2015}{2014}$	3	3	0	null	3	100.00
LipovetzkyBPS14	10.1609/icaps.v24i1.13666	ICAPS	2014	5 5	5 5	0	null	5 5	100.00
LudwigKRBMS14	10.1609/aaai.v28i2.19030	AAAI	2014	1	1	0	null	1	100.00
ChunS14	10.1609/aaai.v28i2.19030 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	0	null	20	100.00
Lozano2014	10.1145/2666357.2597815	OtherJournal	2014	3	20	0	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	2014	1	1	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		ICAPS	$\frac{2013}{2012}$	11	14	0		14	100.00
BajestaniB11	10.1609/icaps.v22i1.13494 10.1609/icaps.v21i1.13450	ICAPS	2012	2	2	0	null	2	100.00
Milano11	10.1009/1caps.v2111.13430 10.1002/9780470400531.eorms0473	Inbook	$\frac{2011}{2011}$	0	0	0	null null	0	NaN
Lizarralde2011			2011		1	0			
	10.3917/proj.007.0089	OtherJournal	$\frac{2011}{2011}$	1 2	2	0	null	$\frac{1}{2}$	100.00
Laborie2011	10.1007/978-3-642-23592-4_6	Inbook CP	2011	0	0	0	null	0	100.00
Baptiste09	10.1007/978-3-642-04244-7_1			-		0	null		NaN
MonetteDH09	10.1609/icaps.v19i1.13356	ICAPS	2009	9	10	Ü	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	10.1007/978-3-540-77903-2_65	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	10.1007/978-0-387-33768-5_7	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	10.1007/0-387-27744-7_7	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	2004	44	47	0	null	47	100.00
Tsang03	10.1023/a:1024016929283	OtherJournal	2003	1	0	0	null	1	100.00
DomdorfPH03	10.1007/978-3-642-18965-4_31	Inbook	2003	0	0	0	null	0	NaN
Apt03	10.1017/cbo 9780511615320	Background	2003	385	374	0	null	385	100.00
Sadykov2003	10.2139/ssrn.988640	Preprint	2003	3	3	0	null	3	100.00
Timpe2003	10.1007/978-3-662-05607-3_5	Inbook	2003	2	2	0	null	2	100.00
ElkhyariGJ02	10.1007/3-540-46135-3_49	CP	2002	1	1	0	null	1	100.00
ZhuS02	10.1007/3-540-47961-969	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/ijoc.14.4.295.2828	InformsJC	2002	95	93	0	null	95	100.00
Hentenryck02	10.1287/ijoc.14.4.345.2826	Background	2002	49	50	0	null	50	100.00
EastonNT02	10.1007/978-3-540-45157-0 6	OtherConf	2002	48	50	0	null	50	100.00

Section 2 DATA QUALITY 5

Key	DOI	Source Group	Year	Nr Citations	Crossref Citations	Scopus Citations	WoS Citations	Range Citations	Range Percentage
Varnier2002	10.1109/icsmc.1996.561432	OtherConf	2002	0	0	0	null	0	NaN
Richard2002	10.1109/etfa.1995.496763	OtherConf	2002	4	4	0	null	4	100.00
Petith2002	10.1109/etfa.1995.496657	OtherConf	2002	0	0	0	null	0	NaN
BaptistePN01	10.1007/978-1-4615-1479-4	Book	2001	297	302	0	null	302	100.00
BosiM2001	10.1002/1097-024x(200101)31:1<17::aid-spe355>3.0.co;2-l	OtherJournal	2001	3	3	0	null	3	100.00
Henz01	10.1287/opre.49.1.163.11193	ORJournal	2001	65	68	0	null	68	100.00
Rgin2001	10.1090/dimacs/057/07	Inbook	2001	28	29	0	null	29	100.00
Baptiste2001	10.1007/978-1-4615-1479-4_2	Inbook	2001	1	1	0	null	1	100.00
LopezAKYG00	10.1016/s0947-3580(00)71114-9	OtherJournal	2000	0	0	0	null	0	NaN
Hooker00	10.1002/9781118033036	Book	2000	186	186	0	null	186	100.00
Simonis99	10.1007/3-540-45406-3_6	OtherConf	1999	5	5	0	null	5	100.00
DorndorfPH99	10.1007/978-3-642-58409-135	OtherConf	1999	0	0	0	null	0	NaN
DorndorfHP99	10.1007/978-1-4615-5533-910	Inbook	1999	18	18	0	null	18	100.00
CarlssonKA99	10.1007/3-540-49201-1_23	OtherConf	1999	1	1	0	null	1	100.00
PembertonG98	10.1090/dimacs/057/06	OtherConf	1998	26	0	0	null	26	100.00
MarriottS98	10.7551/mitpress/5625.001.0001	Background	1998	411	423	0	null	423	100.00
BeckDDF98	10.1002/(sici)1099-1425(199808)1:2<89::aid-jos9>3.0.co;2-h	OtherJournal	1998	9	8	0	null	9	100.00
Jaffar1998	10.1093/oso/9780198537922.003.0012	Inbook	1998	3	3	0	null	3	100.00
Mesghouni1997	10.1007/978-0-387-35086-8_12	Inbook	1997	2	2	0	null	2	100.00
Simonis95a	10.1007/3-540-60794-3_11	OtherConf	1995	1	1	0	null	1	100.00
Schiex1994	10.1142/s0218213094000108	OtherJournal	1994	65	66	0	null	66	100.00
Freuder1994	10.7551/mitpress/2122.001.0001	Book	1994	24	22	0	null	24	100.00
Icmeli1993	10.1108/01443579310046454	OtherJournal	1993	98	99	0	null	99	100.00
Barber1993	10.1145/152947.152955	OtherJournal	1993	13	13	0	null	13	100.00
BaptisteLV92	10.1109/robot.1992.220195	OtherConf	1992	13	11	0	null	13	100.00
Demeulemeester1992	10.1287/mnsc.38.12.1803	ORJournal	1992	384	387	0	null	387	100.00
Elmaghraby1992	10.1287/mnsc.38.9.1245	ORJournal	1992	119	121	0	null	121	100.00
CarlierP90	10.1007/bf03543071	Background	1990	112	114	0	null	114	100.00
CarlierP89	10.1287/mnsc.35.2.164	Background	1989	520	524	0	null	524	100.00
PritskerWW69	10.1287/mnsc.16.1.93	Background	1969	513	518	0	null	518	100.00

2.1 Range of Citation Counts

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.

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.

Table 4: Works with largest Range of Citation Counts

Key	DOI	Source Group	Year	Nr Citations	Crossref Citations	Scopus Citations	WoS Citations	Range Citations	Range Percentage
Demeulemeester1992	10.1287/mnsc.38.12.1803	ORJournal	1992	384	387	0	null	387	100.00
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	10.1002/3781118033030 10.1023/a:1026488509554	Constraints	1999	100	0	150	null	150	100.00
JainM99	10.1016/s0377-2217(98)00113-1	EJOR	1999	495	503	630	null	135	21.43
Elmaghraby1992	10.1287/mnsc.38.9.1245	ORJournal	1992	119	121	0	null	121	100.00
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	10.1007/Bi00143831 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	AIJournal	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	2004	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

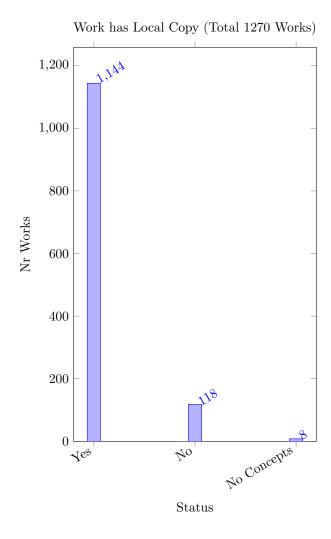
We only have Web of Science data in a few bibtex entries, we here try to evaluate their citation numbers on those bib entries which are from WoS.

Table 5: Works with WoS Citation Counts

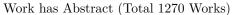
Key	DOI	Source Group	Year	Nr Citations	Crossref Citations	Scopus Citations	WoS Citations	Range Citations	Range Percentage
KendallKRU10	10.1016/j.cor.2009.05.013	ORJournal	2010	183	186	220	161	37	16.82
MeskensDL13	10.1016/j.dss.2012.10.019	OtherJournal	2013	103	102	116	103	14	12.07
RasmussenT07	10.1016/j.ejor.2005.10.063	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	$10.1109/\mathrm{tla}.2019.8932340$	OtherJournal	2019	0	0	0	0	0	NaN

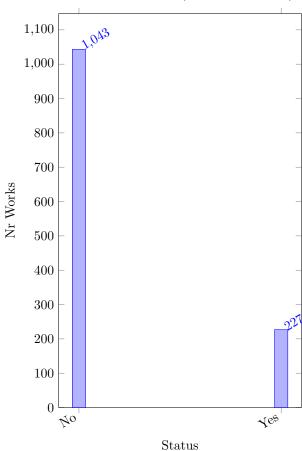
2.2 Local Copies

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.

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.

Generated: September 3, 2024

Table 6: Orphan Files

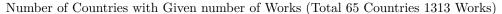
Key File

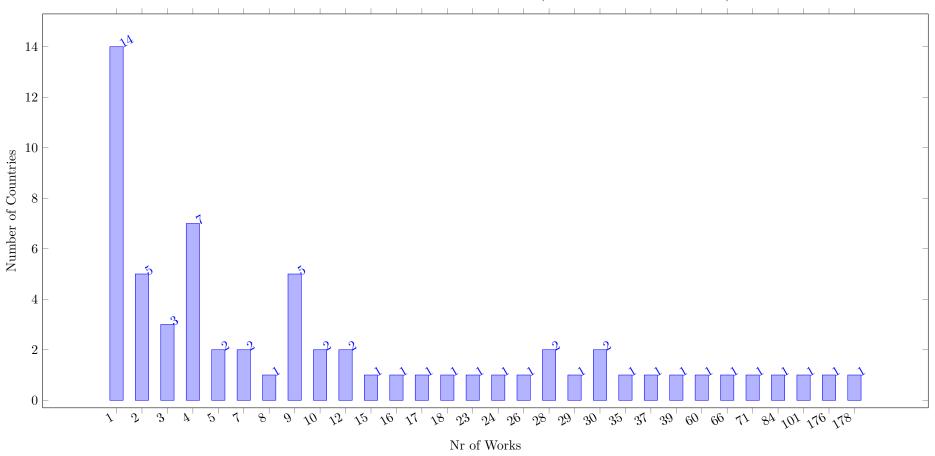
2.5 Missing Publisher

Table 7: Missing Publisher

Кеу Г	OOI	Source Group	Year			Scopus Citations		_	0
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3 Works by Location

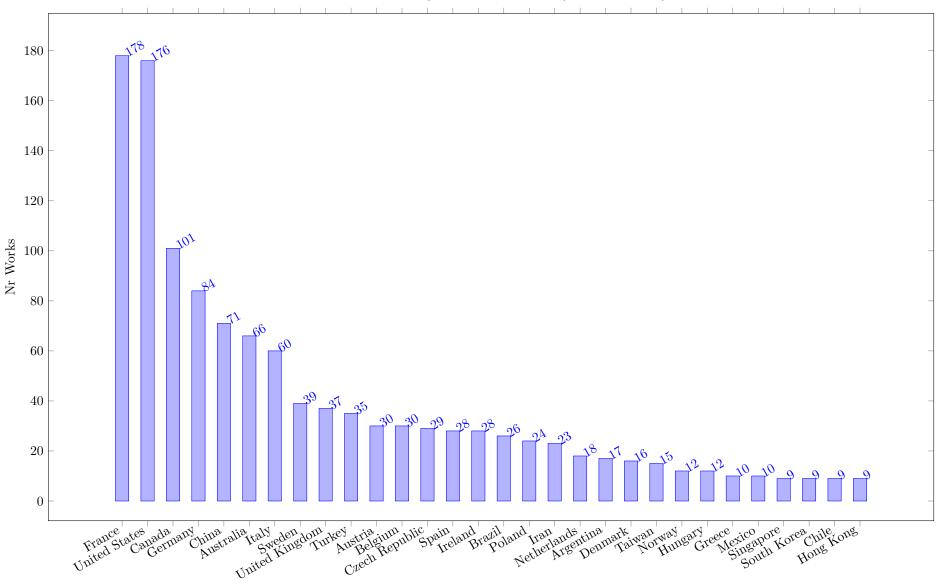


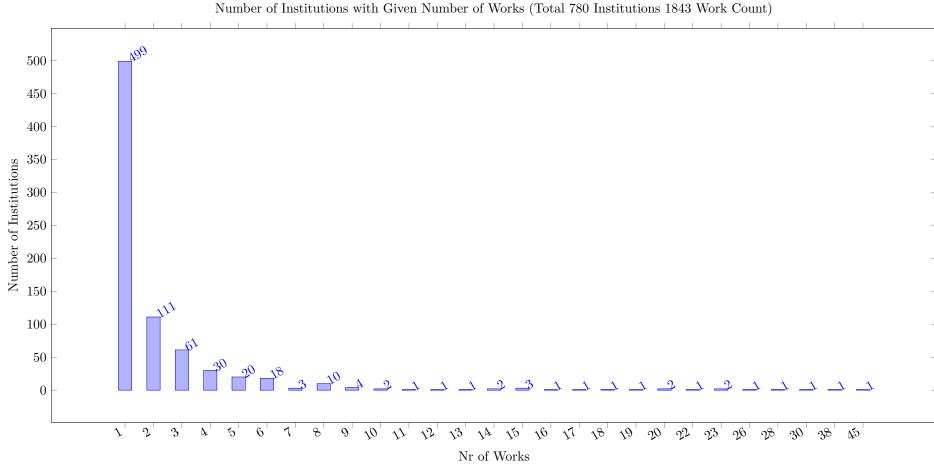


This section analyzes papers by affiliation, which is given by the Scopus data only. Only works which are covered by Scopus are included. We first present the number of papers by country. A paper is counted in this analysis (once), if at least one of the affiliations is from the country. Multiple affiliations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

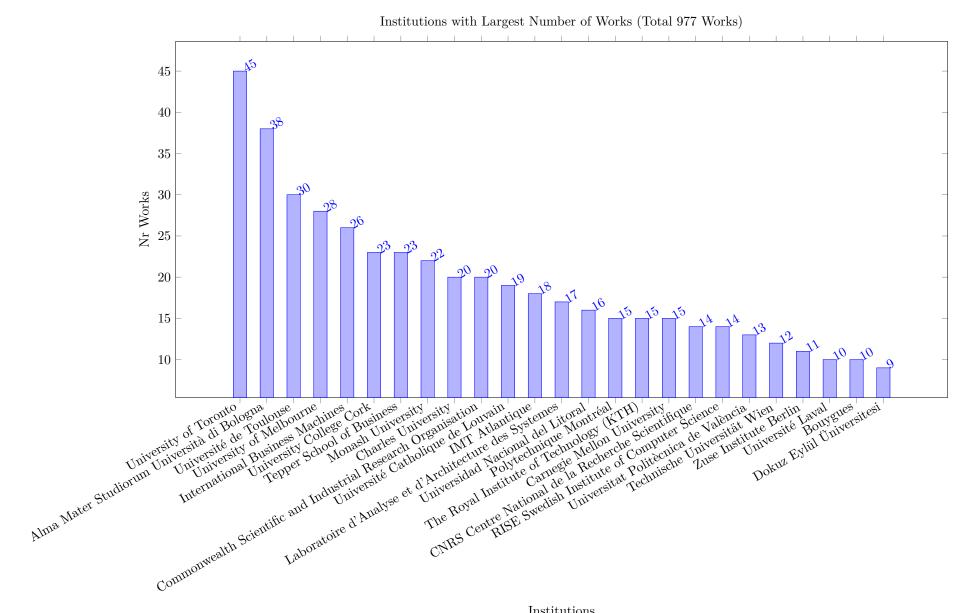
Note that one work will be counted for multiple countries, if the affiliations are from different countries. So the sum of the bar heights typically exceeds the total number of works considered.

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.



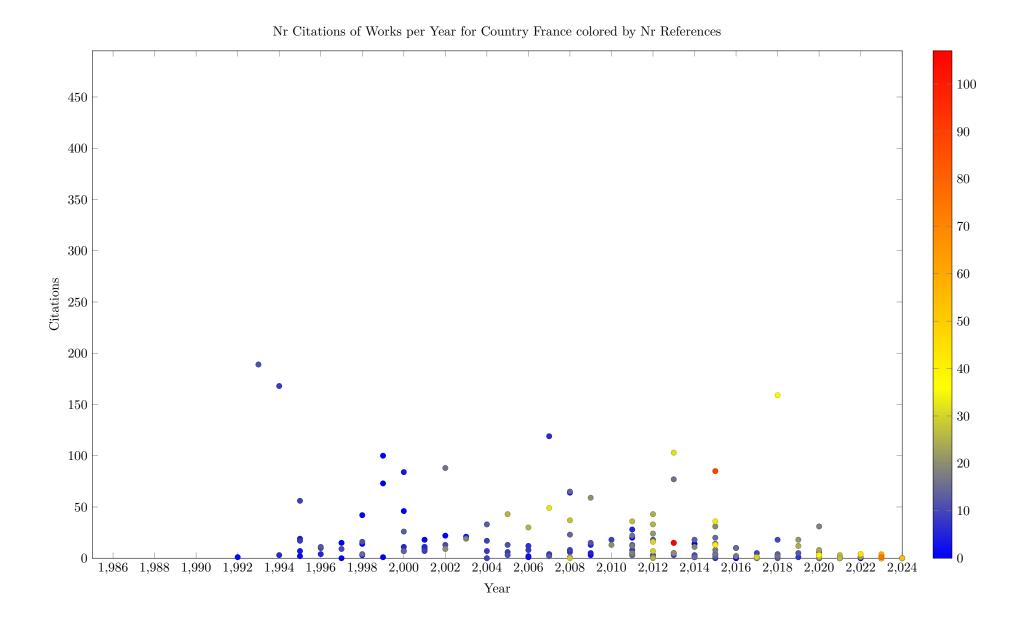
Institutions

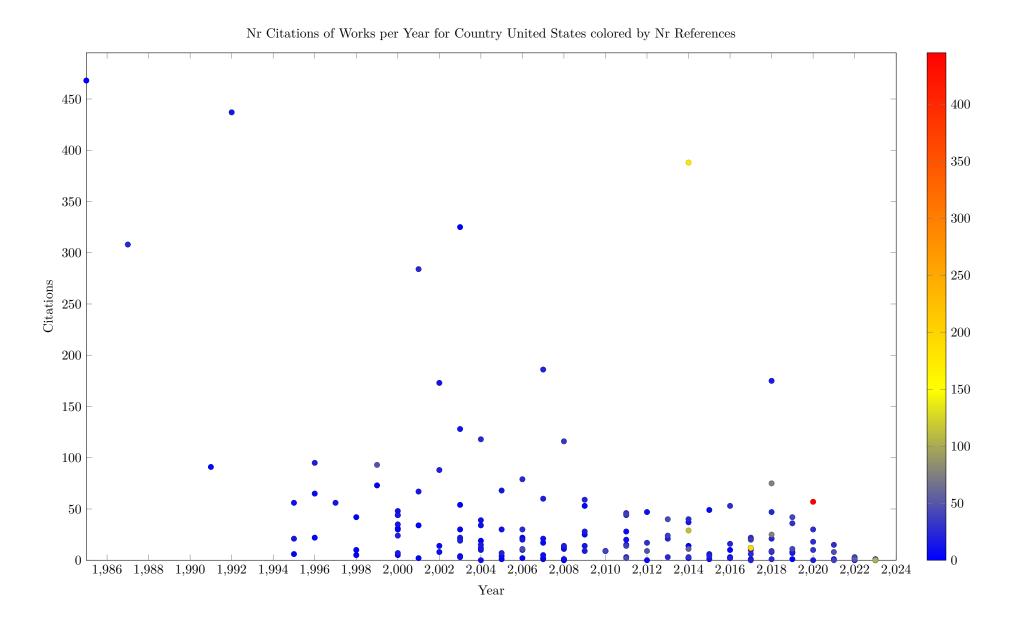
plots.

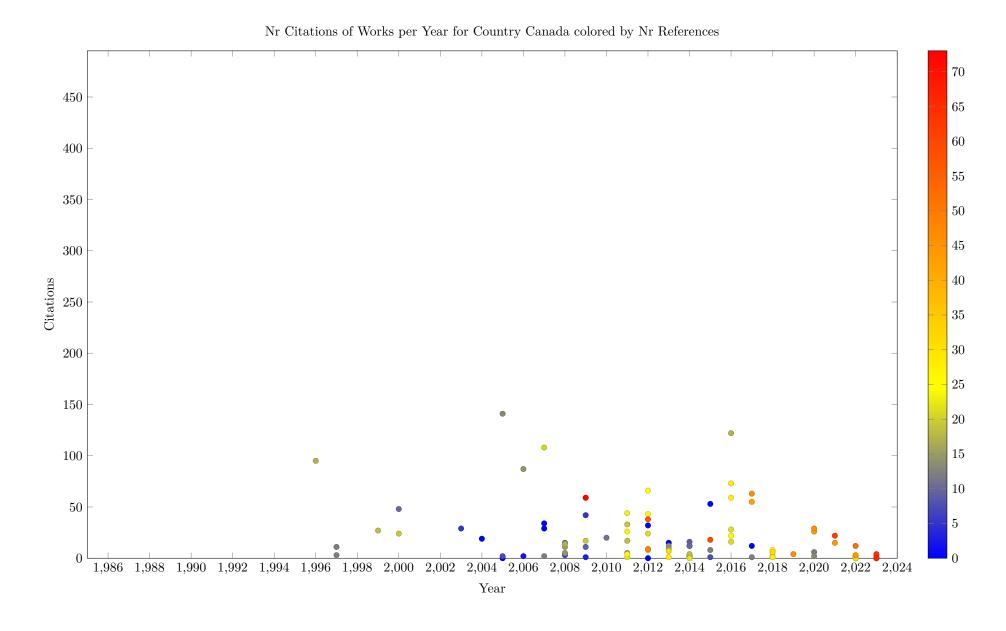
The following plots show for the top 30 countries when the works included were published, and how many citations (OpenCitation count) each paper had. The scatter plots are colored by the number of references (OpenCitation count), this help to identify surveys more easily. The plot gives an indication 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

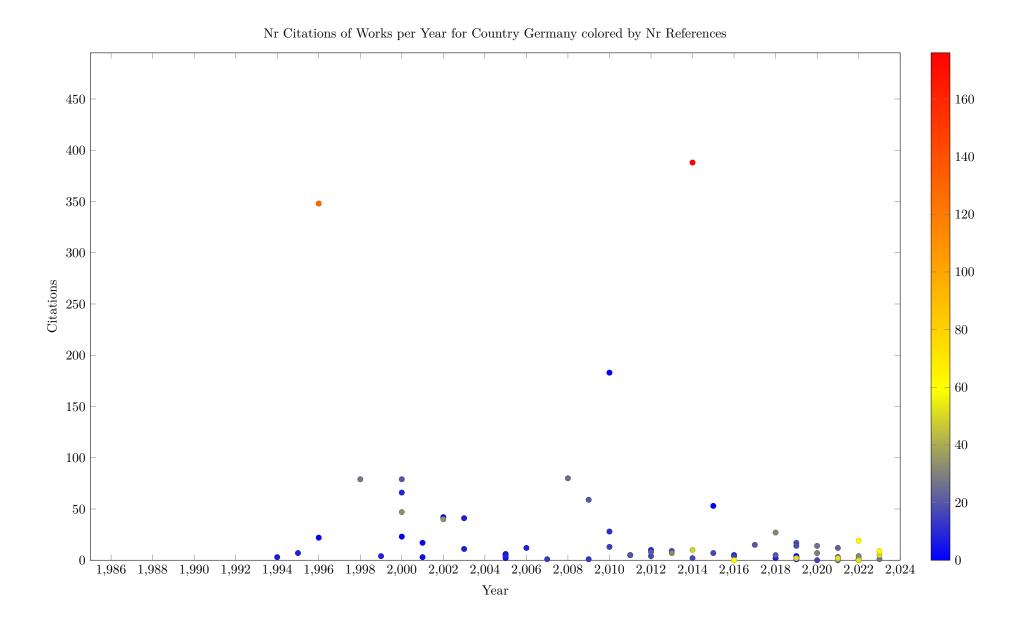
It would be nice to have tooltips on the plots, so identify specific works in the plots. This is currently not supported by the framework library used.

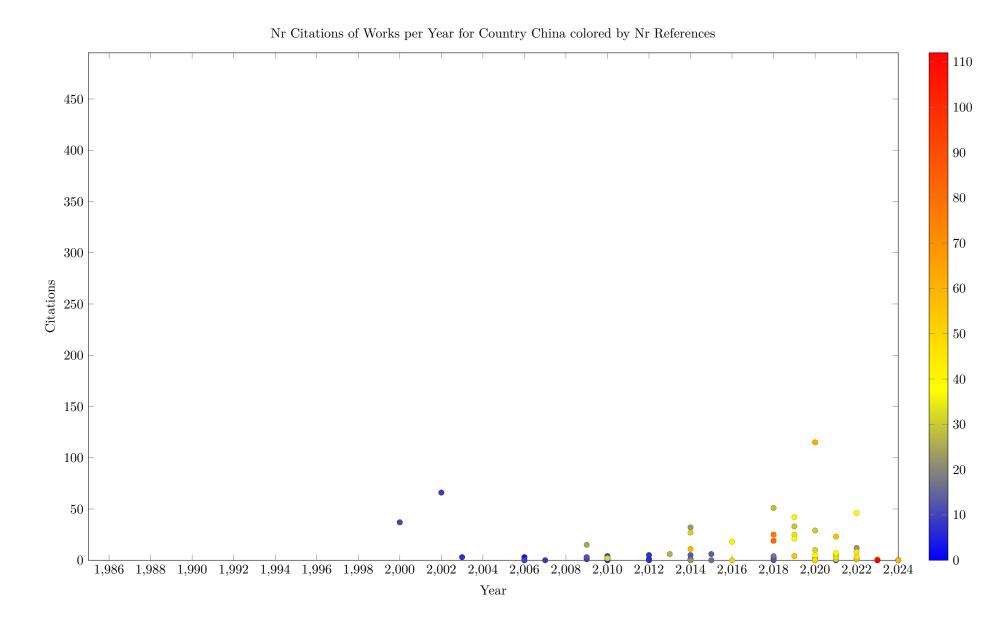
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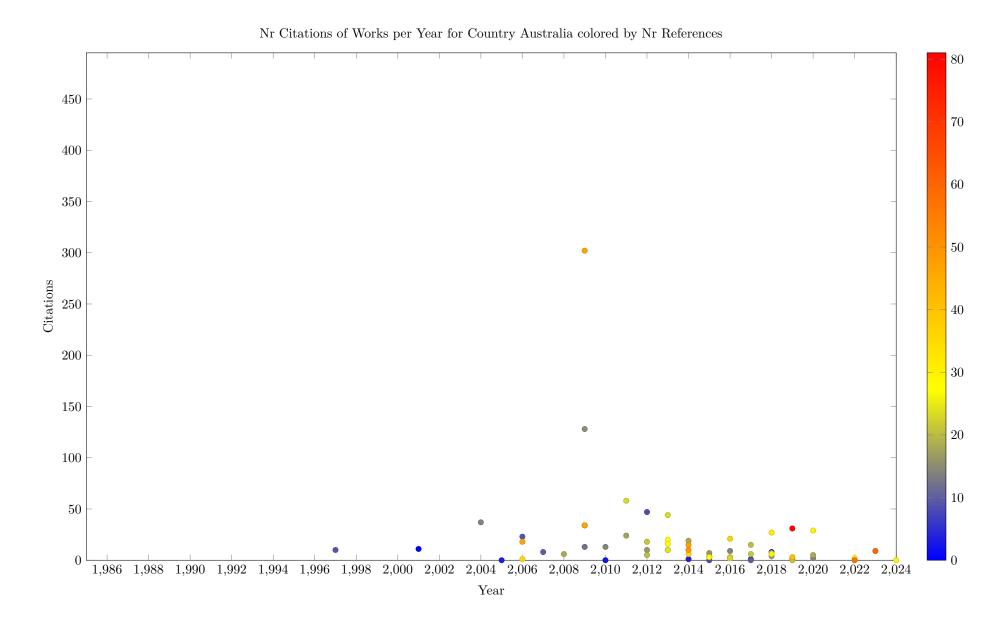


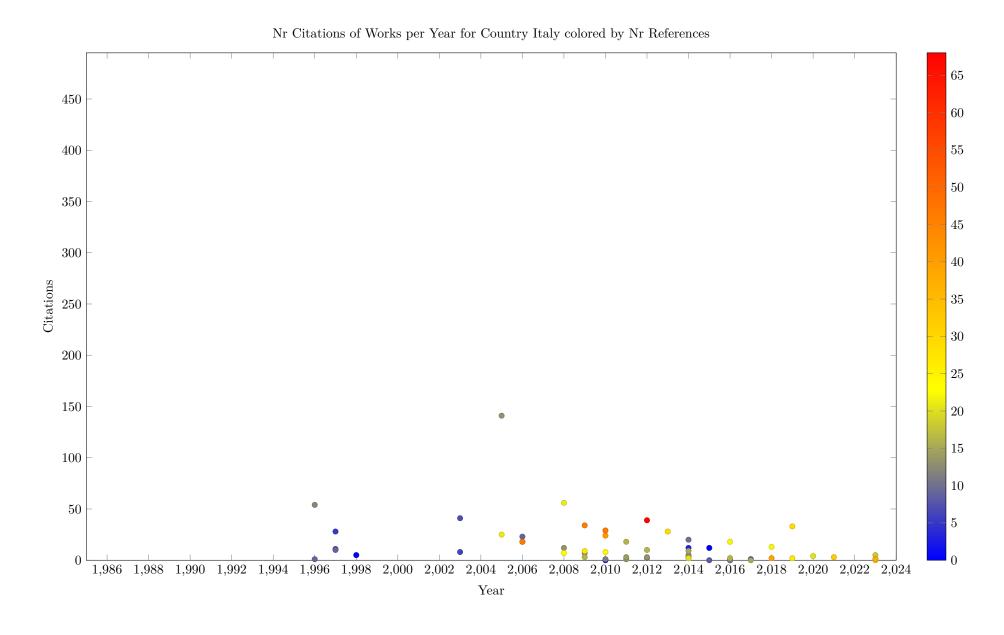


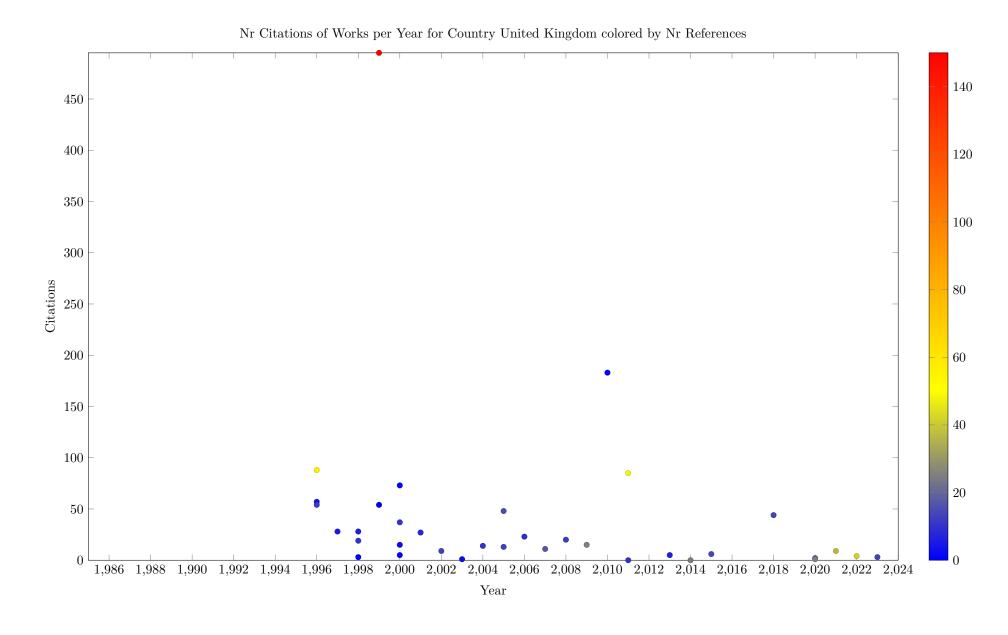


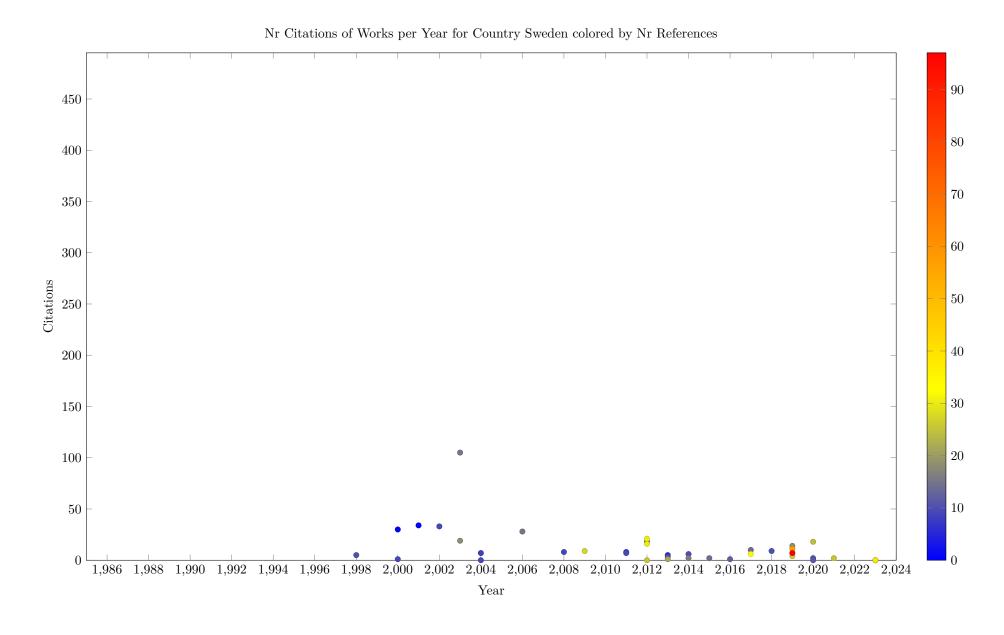


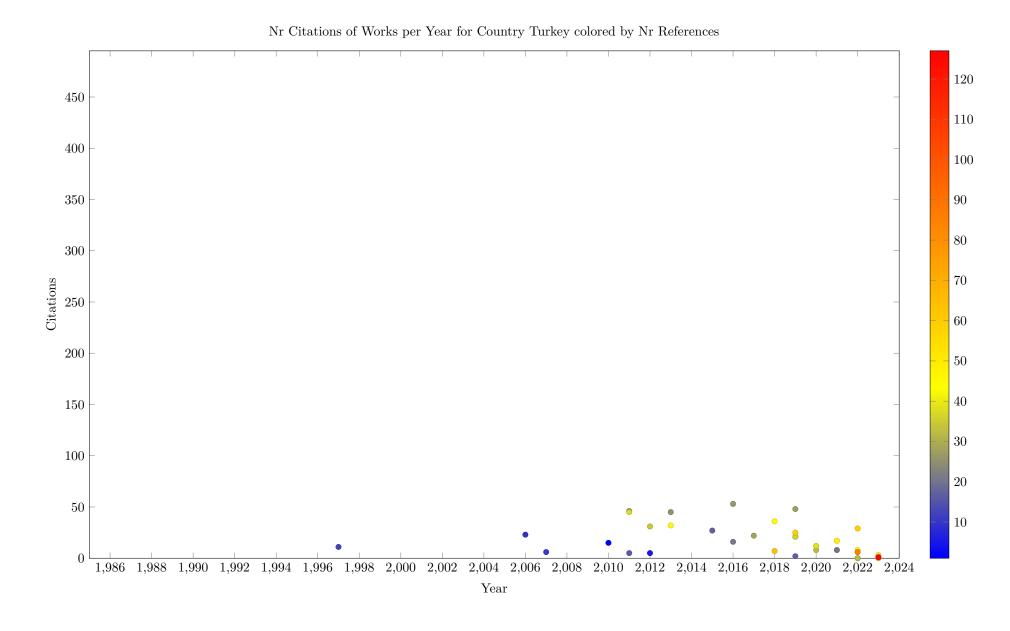


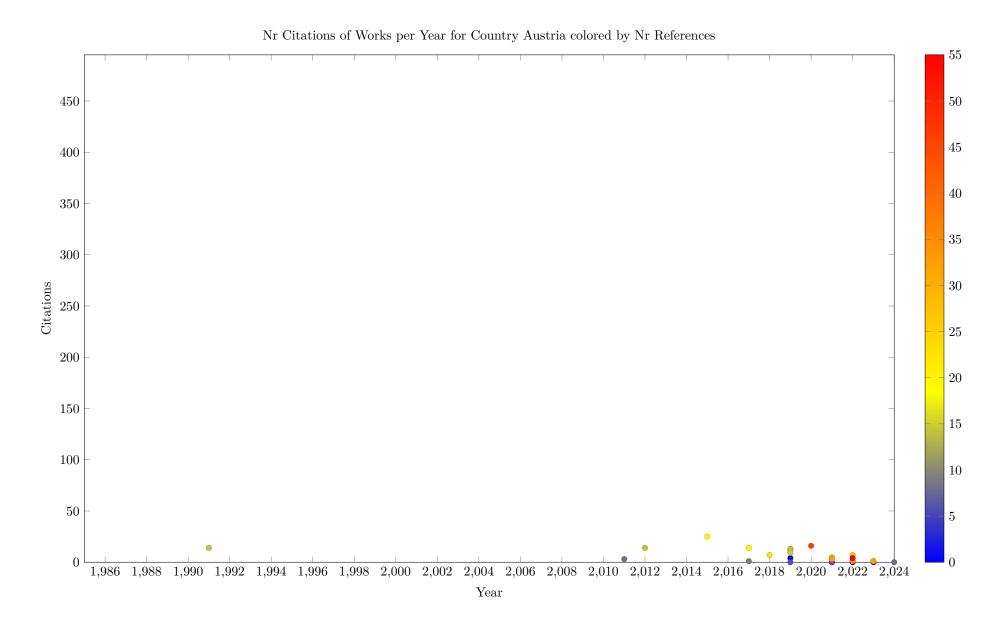


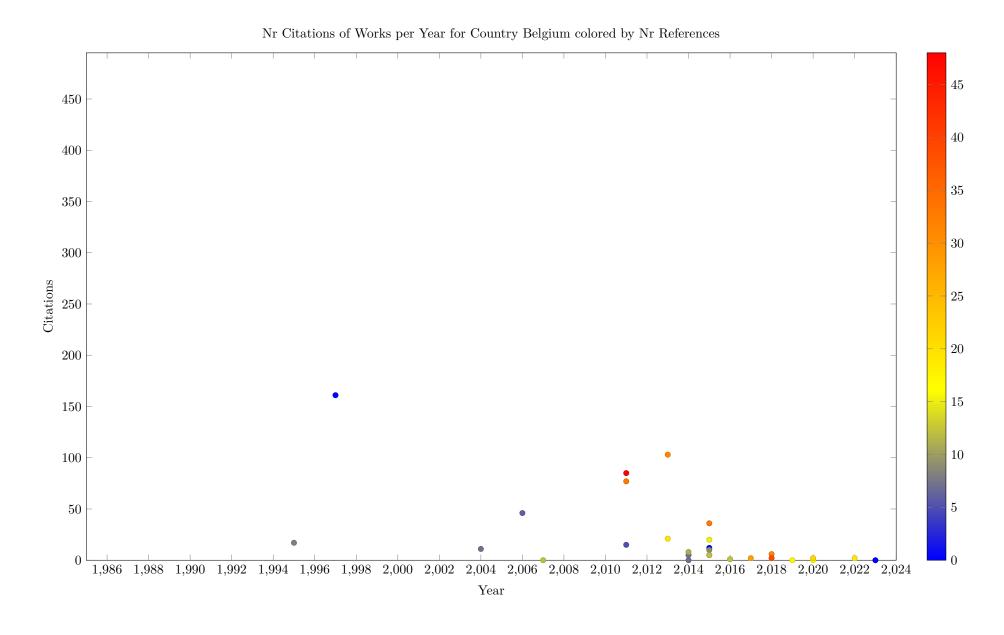


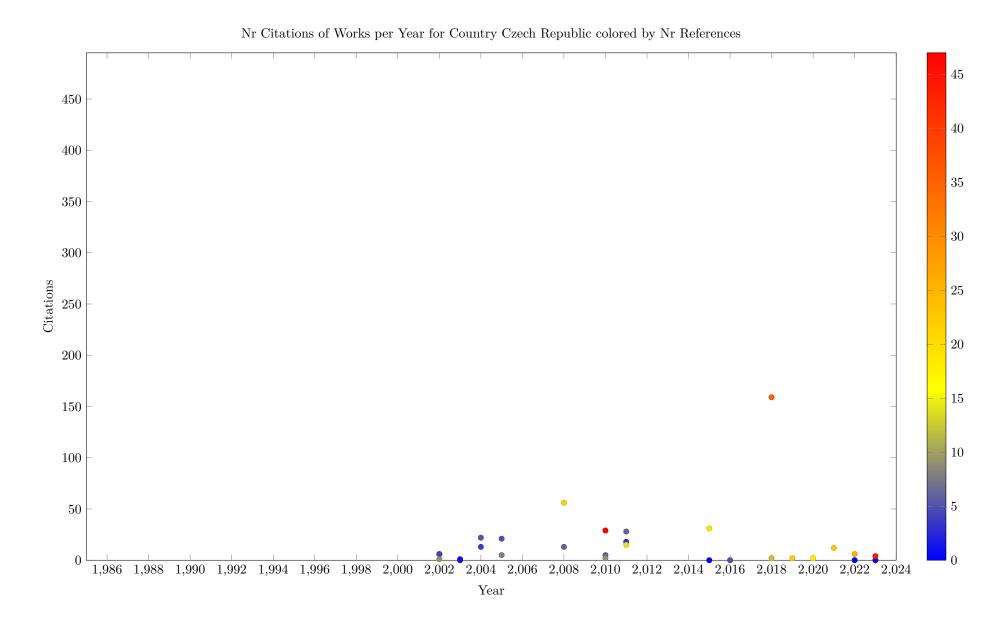


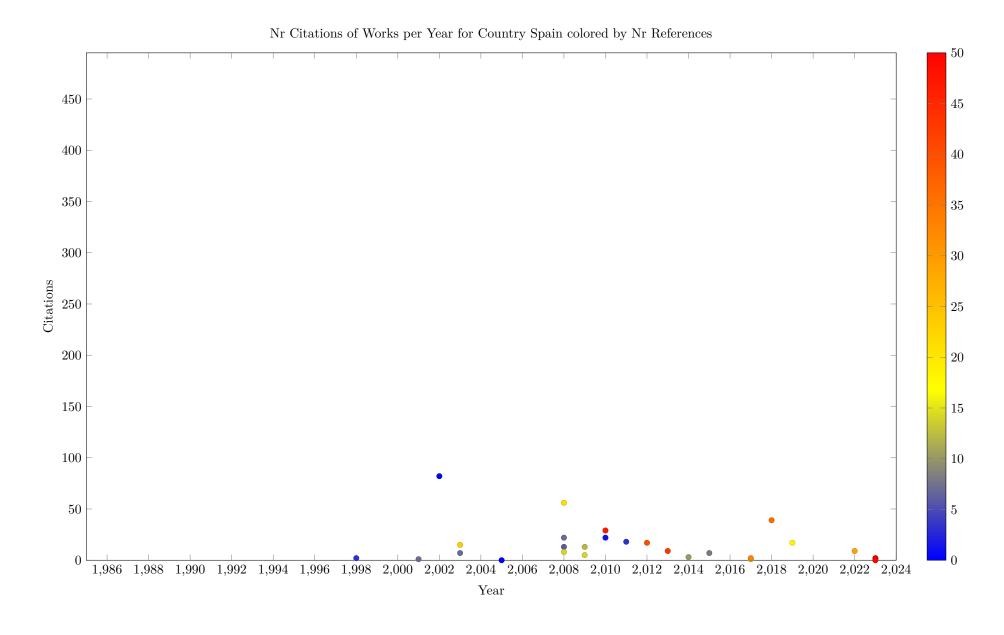


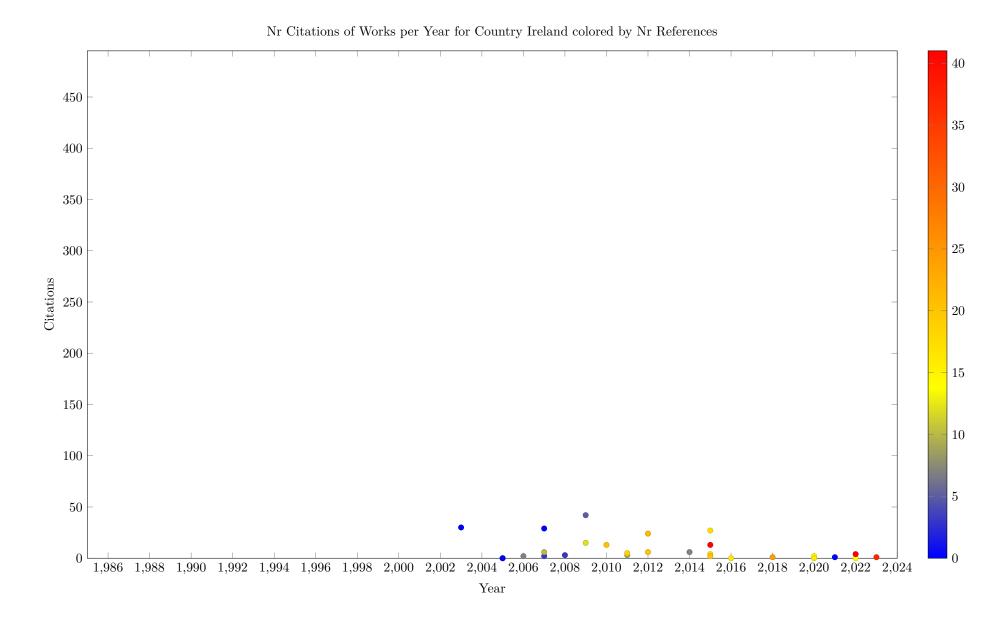


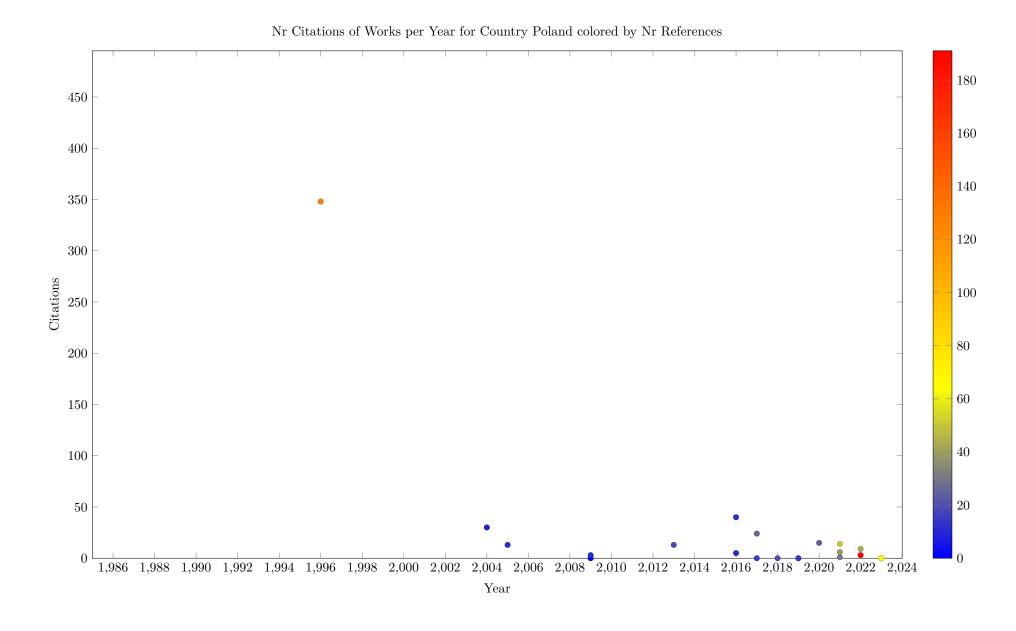


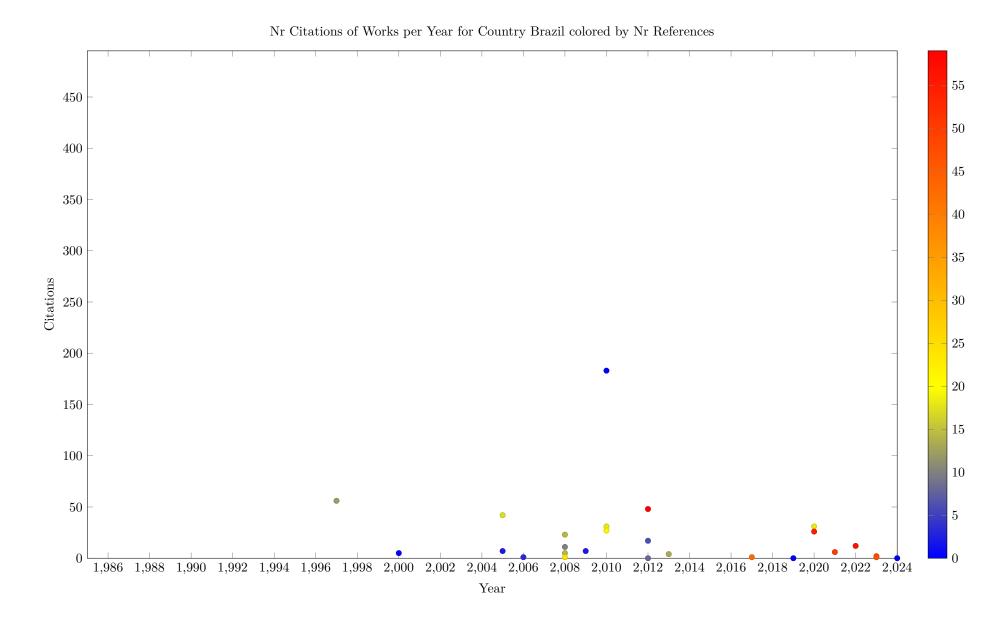


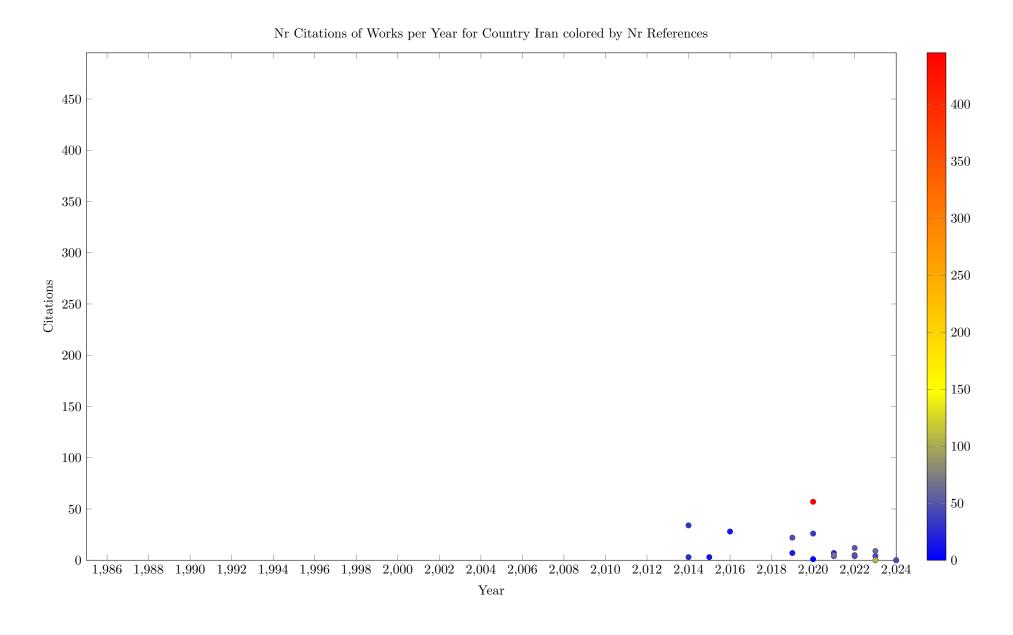


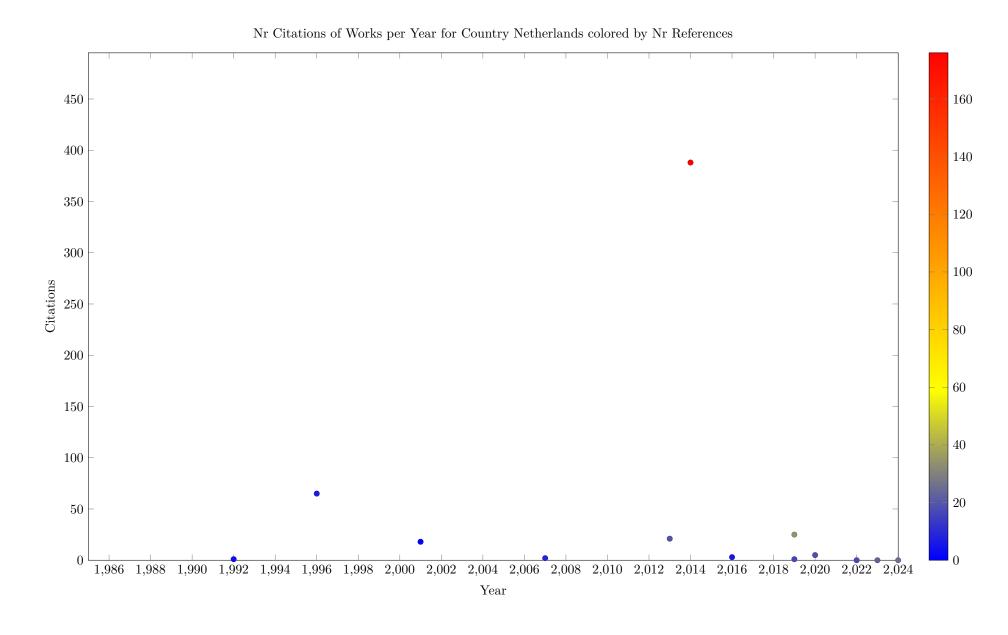


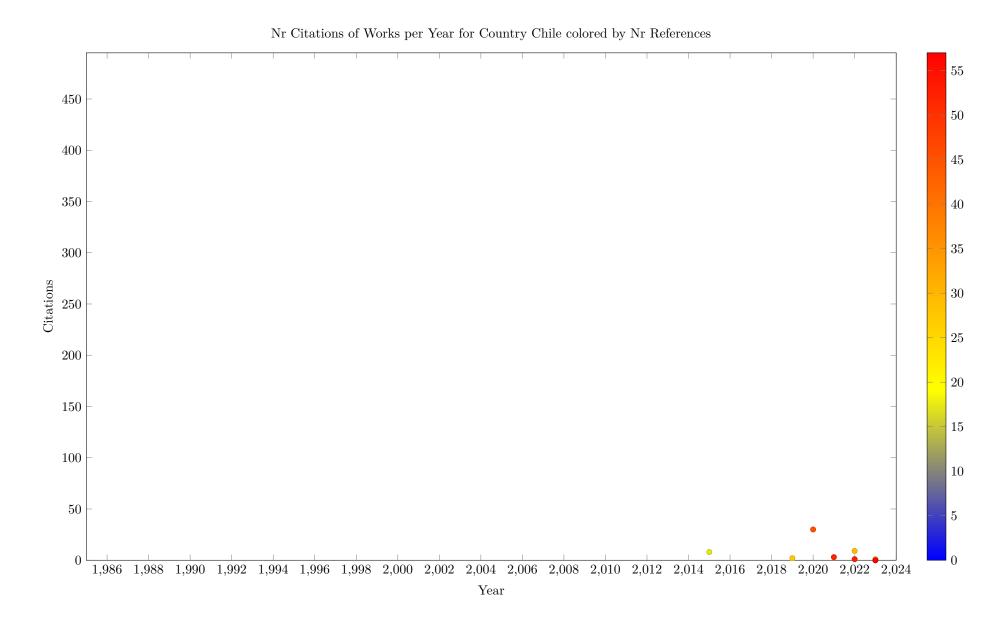


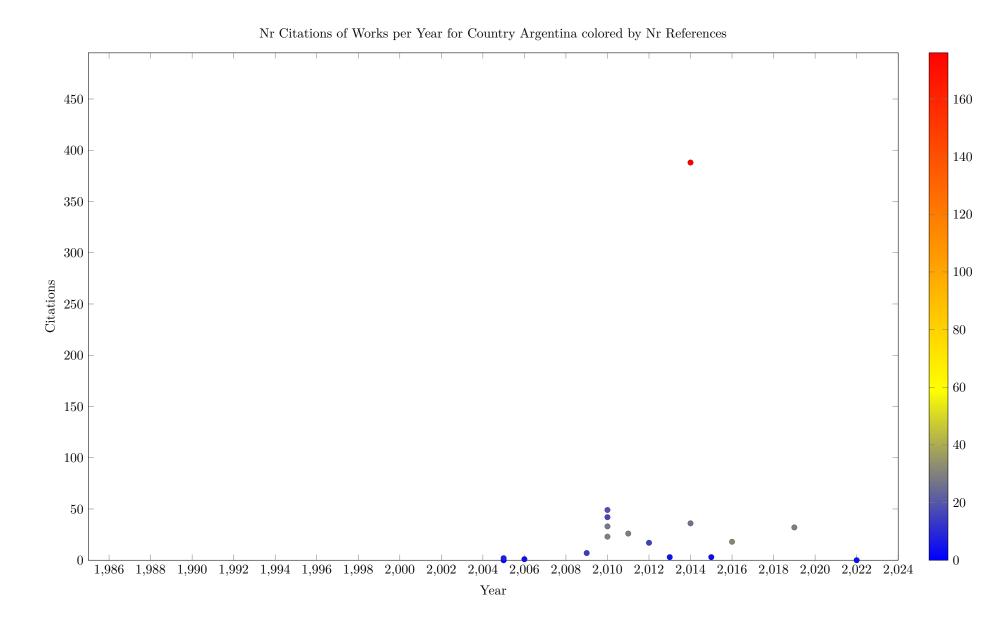


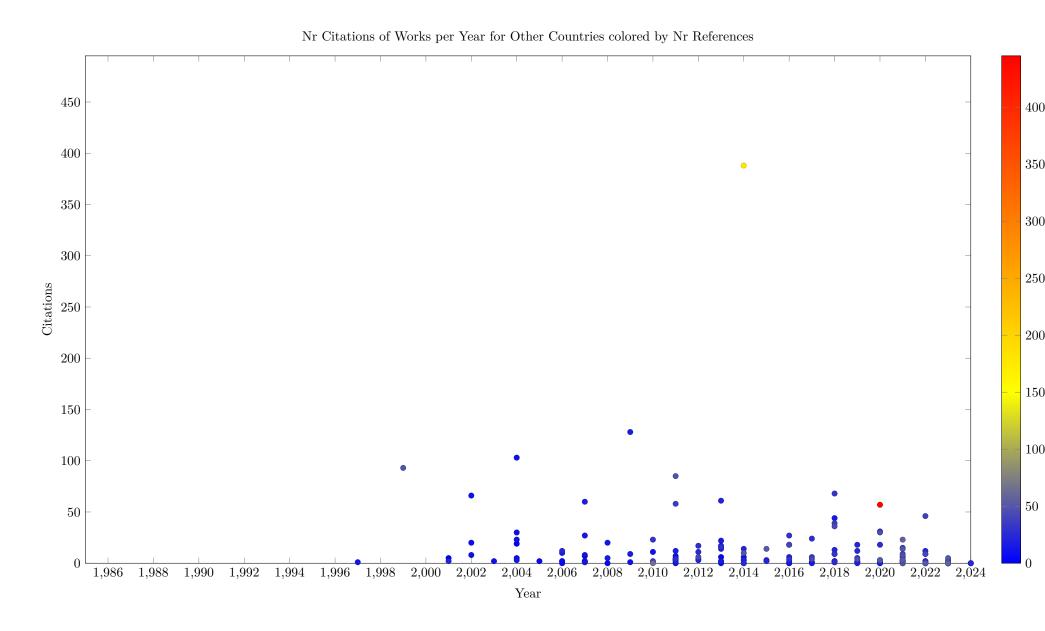












4 Collaborations

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.

Generated: September 3, 2024

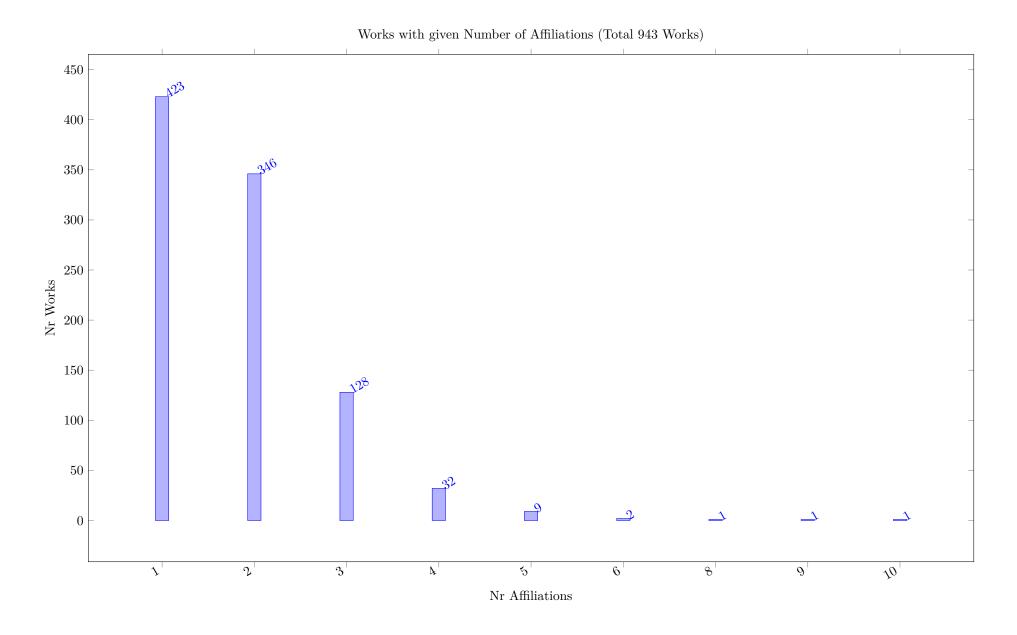


Table 8: Collaboration Data (Top 45 Inst by Decreasing Collab Fraction)

Table 8: Collaboration Dat	та (тор	45 Inst i	by Decreas	sing Conab r	raction)				
	Nr	Collab	Domestic	International	Collab	Domestic	International	Collab	International
Inst	Works	Count	Collab	Collab	Fraction	Fraction	Fraction	Percentage	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
IMT Atlantique, Nantes, France	18	17	7	10	14.00	5.00	9.00	77.78	50.00
The Royal Institute of Technology (KTH), Stockholm, Sweden	15	25	18	7	14.00	10.67	3.33	93.33	22.22
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
Université Catholique de Louvain, Louvain-la-Neuve, Belgium	19	12	2	10	9.00	1.33	7.67	47.37	40.35
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
University of Connecticut, Storrs, United States	20	12	8	4	8.00	5.83	2.17	100.00	27.08
Rotman School of Management, Toronto, Canada	0	19	15	4	8.00	6.17	1.83	100.00	22.92
Universidade de São Paulo, Sao Paulo, Brazil	0	9	15 5	4	7.00	4.50	2.50	87.50	31.25
	9	8	6	2					
Dokuz Eylül Üniversitesi, İzmir, Turkey	-		0 1	9	7.00	5.00	2.00	77.78	22.22
Universitat Politècnica de València, Valencia, Spain	13	10	-	3	7.00	1.00	6.00	53.85	46.15
Politechnika Koszalinska, Koszalin, Poland	8	11	8		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
Université d'Avignon et des Pays du Vaucluse, Avignon, France	8	10	8	2	7.00	5.00	2.00	87.50	25.00
Bouygues, Paris, France	10	8	6	2	7.00	5.00	2.00	70.00	20.00
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
Technische Universität Berlin, Berlin, Germany	6	13	5	8	5.00	3.50	1.50	83.33	25.00
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
Université Laval, Quebec, Canada	10	10	3	7	5.00	2.00	3.00	50.00	30.00
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
École des Mines de Saint-Étienne, Saint-Etienne, France	5	12	8	4	5.00	4.00	1.00	100.00	20.00
Huazhong University of Science and Technology, Wuhan, China	5	13	9	4	5.00	3.50	1.50	100.00	30.00
Aalborg 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
And the Control of th									

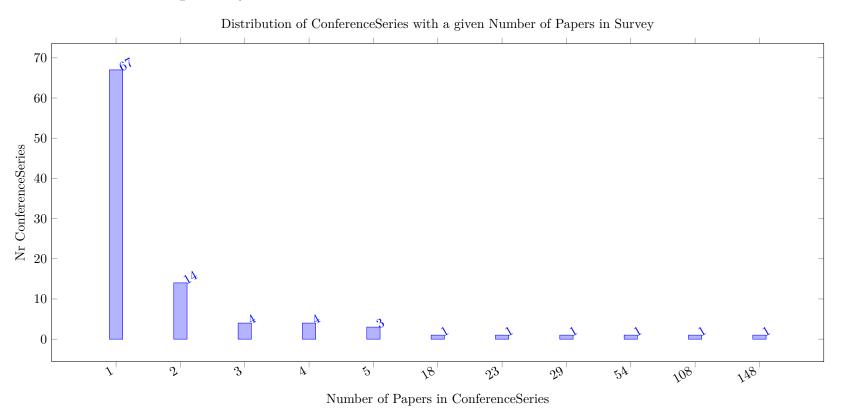
Table 9: Heat Map based on Collaboration between Countries (Fractional Count)

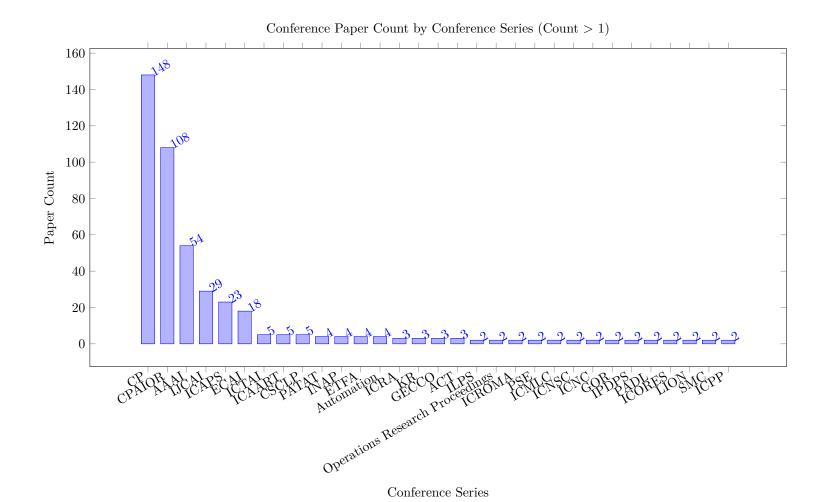
	Table 9: Heat Map based on Conaboration between Countries (Fractional Count)																										
From/To Total	Total	00.702 France	00 United States	00.96 Canada	00.10 China	00. Australia	00.76 OGermany	00.08 Sweden	11.00 Arrange	00.78 00.78	00. 00. 00. 00.	0. United Kingdom	00.65 lreland	puelod 05.00	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	9 2 12.00	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	0.25	8.00
United States	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	0.00	9.34
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	0.00	5.89
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	1.50	3.50
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	0.25	3.00
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
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	9.00	1.00
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	0.00	11.33
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	0.00	2.67
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
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
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
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
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
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	0.00	1.83
Egypt	4.00	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	0.00	0.00	0.00	3.00
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
Other	1	2.00	2.17	0.00	1.50	1.00	3.00	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	1.00	

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

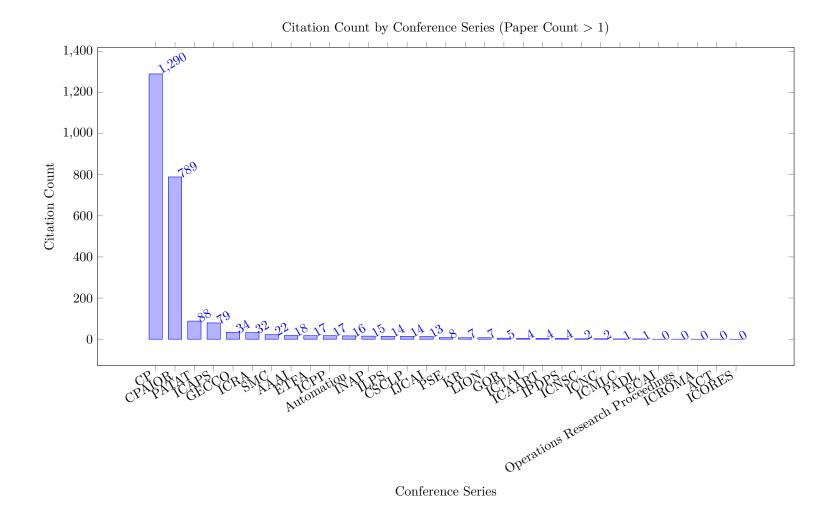
	Table 10: Heat Map based on Conaboration between Countries (Integer Count)																										
From/To Total	Total	0.000 United States	00.401 France	00.89 Germany	00.45 Canada	00.85 tally	00.25 O Australia	20 United Kingdom	Sweden 47.00	00.78 Belgium	00.98 00.7urkey	00.98 Oenmark	00.98 Norway	00.780 Netherlands	uipdS 34.00	00.00 Poland	00.82 China	00.85 Switzerland	guoy guoH OO 27.00	06.00 Treland	0 Austria	23.00	op. 00.22	21.00 Cyprus	n.a. Oo.bern	13.00	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	5.00	1.00	5.00	1.00	1.00	7.00	1.00	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	2.00	6.00	2.00	1.00	2.00	2.00	1.00	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	3.00	1.00	2.00	2.00	2.00	0.00	2.00	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	1.00	3.00	1.00	3.00	1.00	1.00	5.00	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	3.00	2.00	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	3.00	1.00	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	1.00	2.00	1.00	1.00	1.00	0.00	3.00	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	0.00	1.00	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	2.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Denmark	36.00	5.00	2.00	3.00	1.00	1.00	3.00	2.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	5.00	0.00	1.00	1.00	0.00	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	1.00	0.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	5.00
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	0.00	1.00	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	5.00	1.00	2.00	1.00	0.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	2.00
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
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
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	0.00	1.00	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	0.00	1.00	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
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	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00	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	0.00	1.00	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 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	4.00
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	6.00	0.00	2.00	0.00	0.00	0.00	0.00		0.00	0.00	1.00
Chile	9.00	1.00	1.00	0.00	0.00	$\frac{1.00}{0.00}$	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	0.00 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 0.00	0.00 0.00	0.00 0.00	$0.00 \\ 0.00$	5.00
Brazil	9.00	$\frac{2.00}{1.00}$	2.00	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	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00 4.00
Taiwan Mexico	8.00 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
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
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
Luxembourg	6.00	1.00	1.00	0.00	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	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
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
Greece	5.00	0.00	1.00	0.00	0.00	0.00	0.00	2.00	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	1.00
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	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00
Other		4.00	2.00	4.00	3.00	0.00	1.00	1.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	2.00	1.00	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

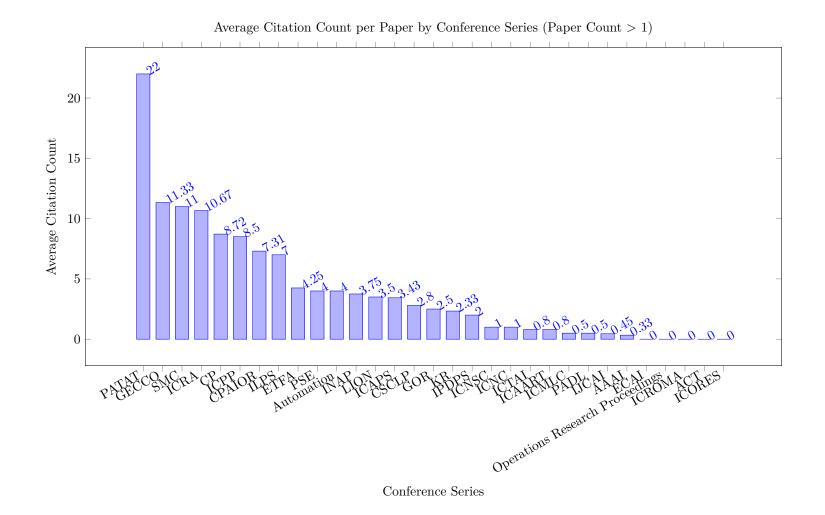




Section 5 CONFERENCE PAPERS BY MOST COMMON CONFERENCE SERIES

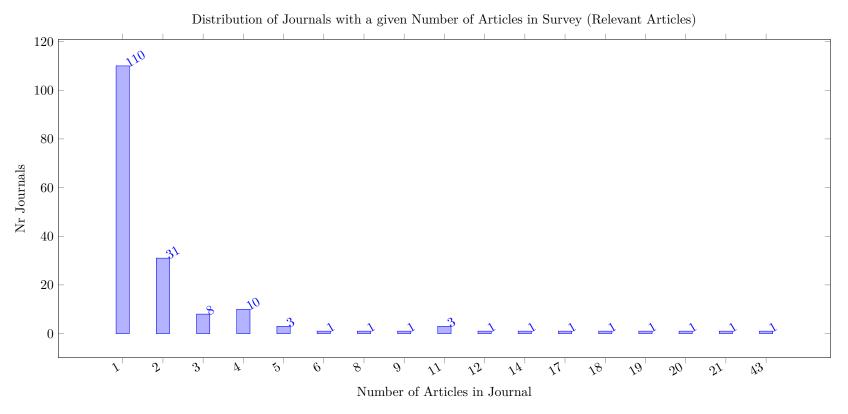


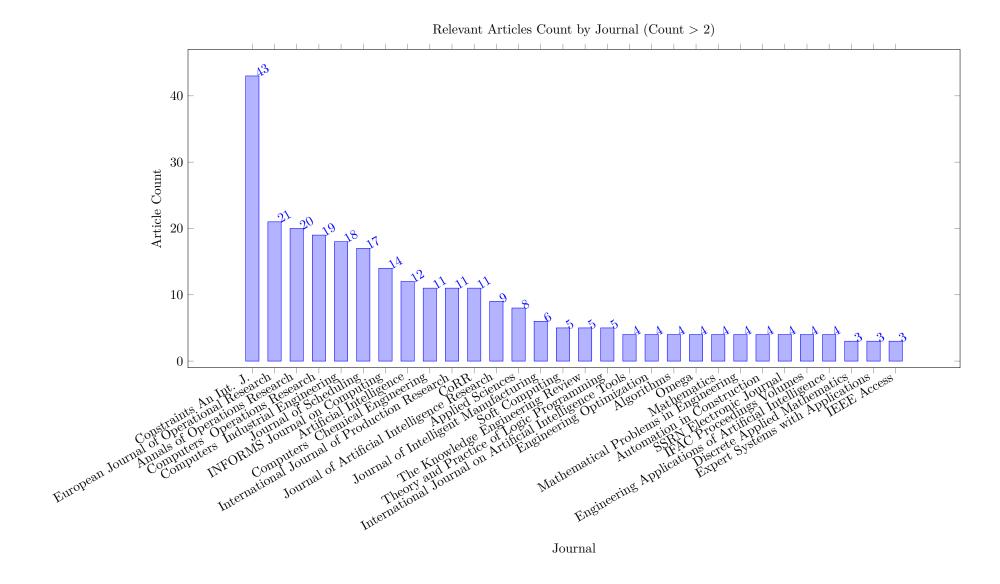
Section 5 CONFERENCE PAPERS BY MOST COMMON CONFERENCE SERIES

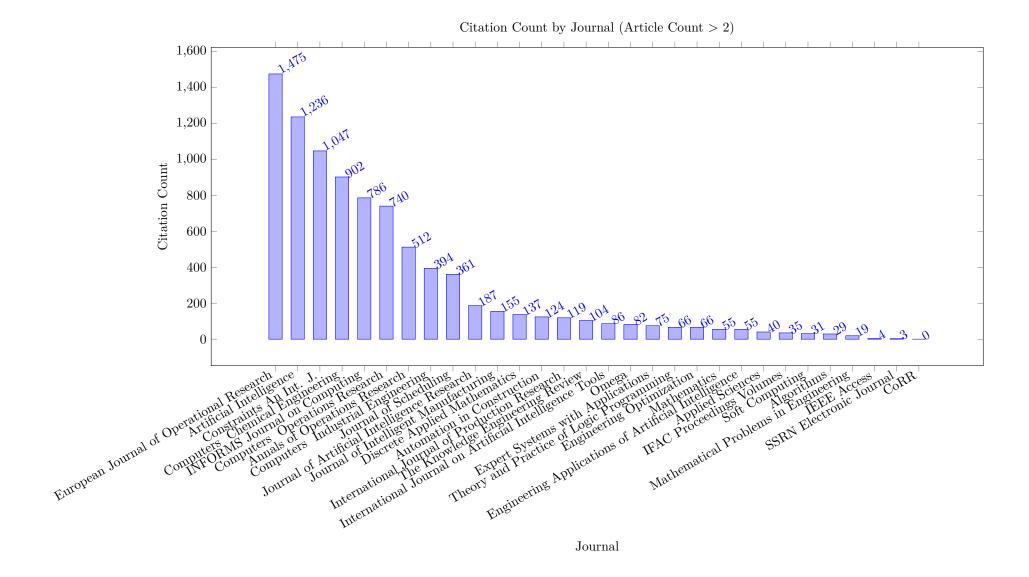


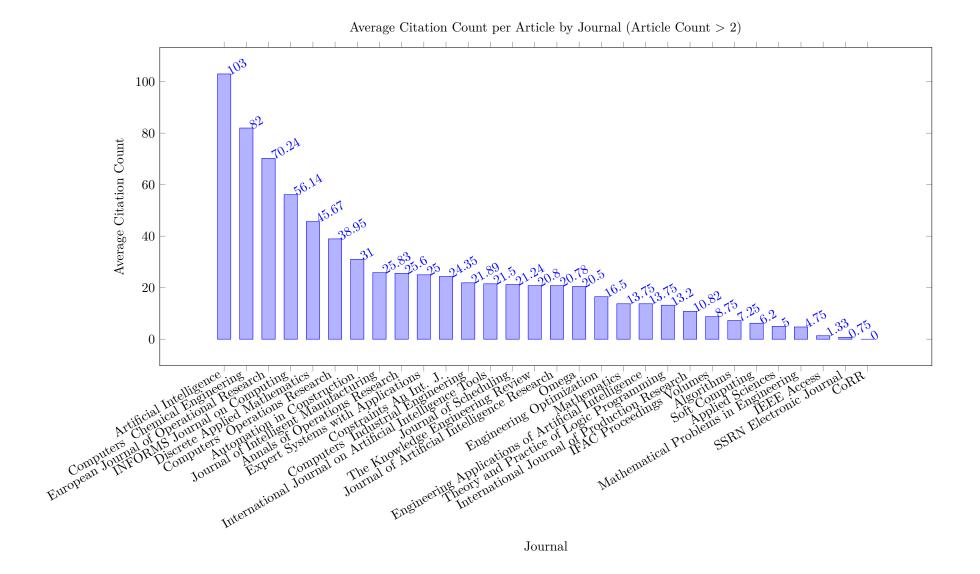
6 Journal Articles by Most Common Journals

6.1 Relevant Articles

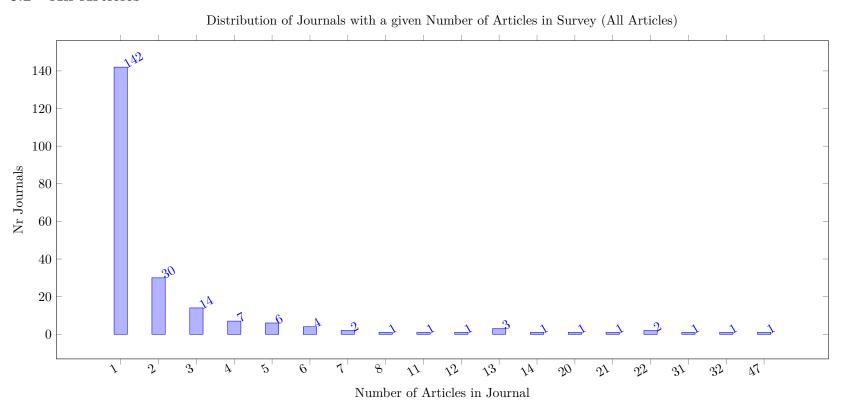


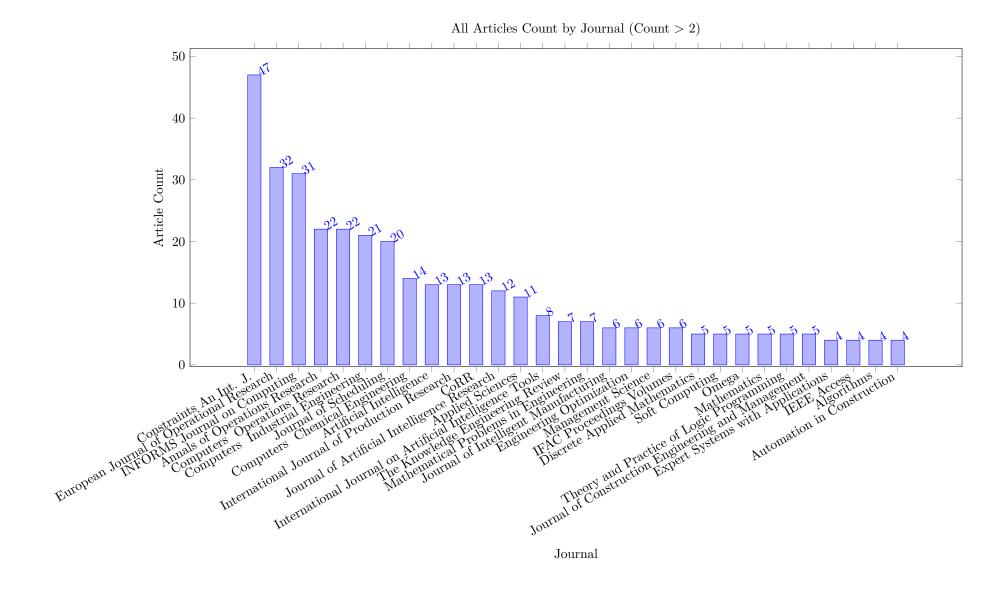


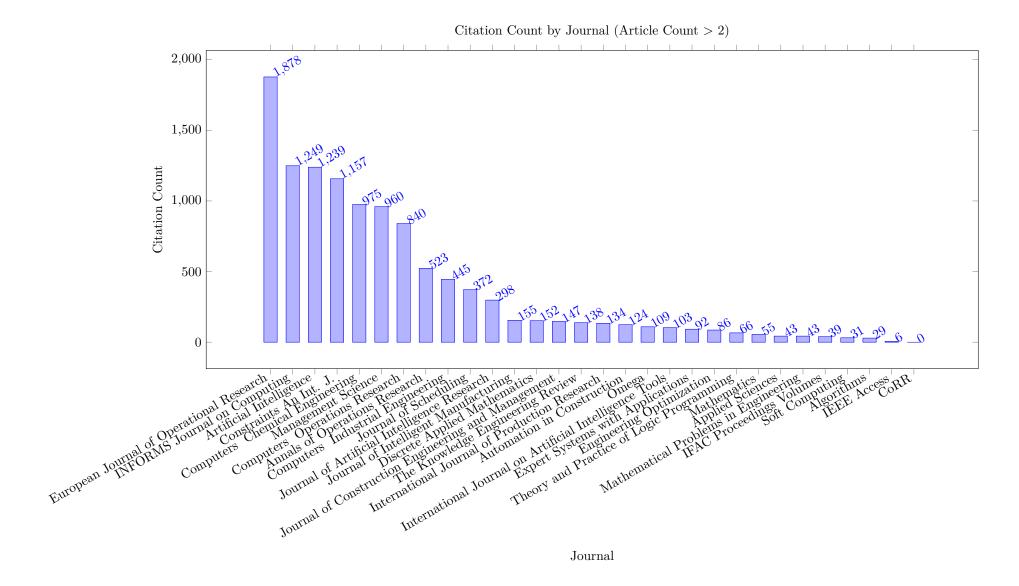


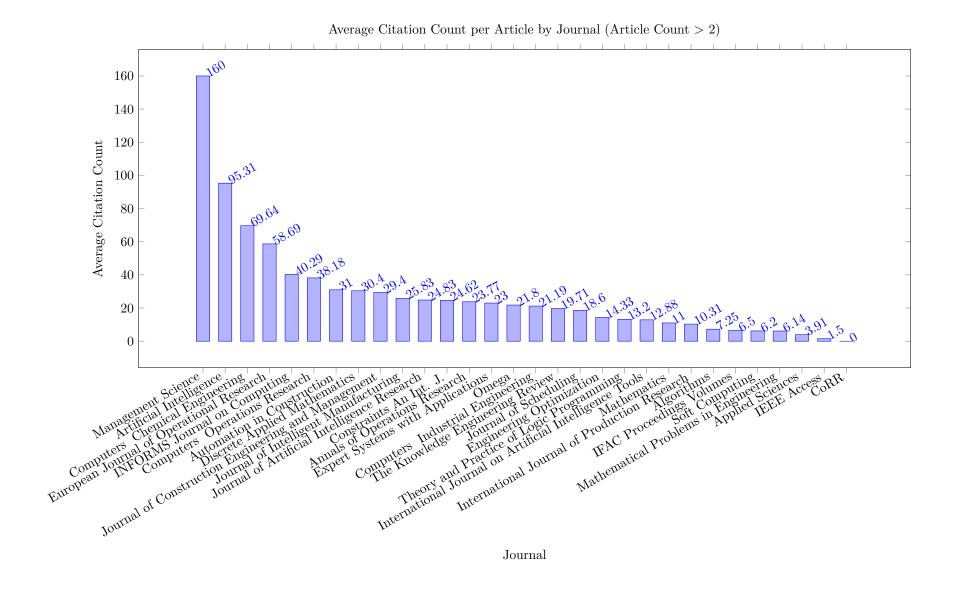


6.2 All Articles



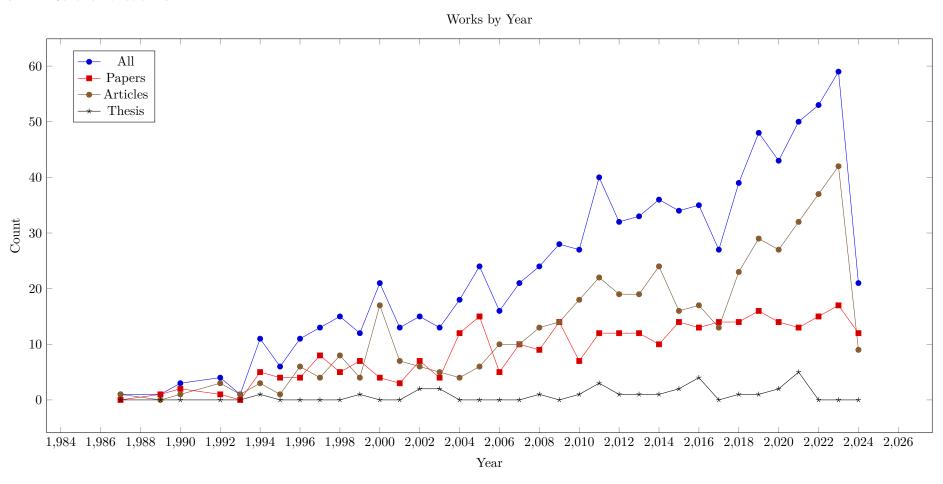


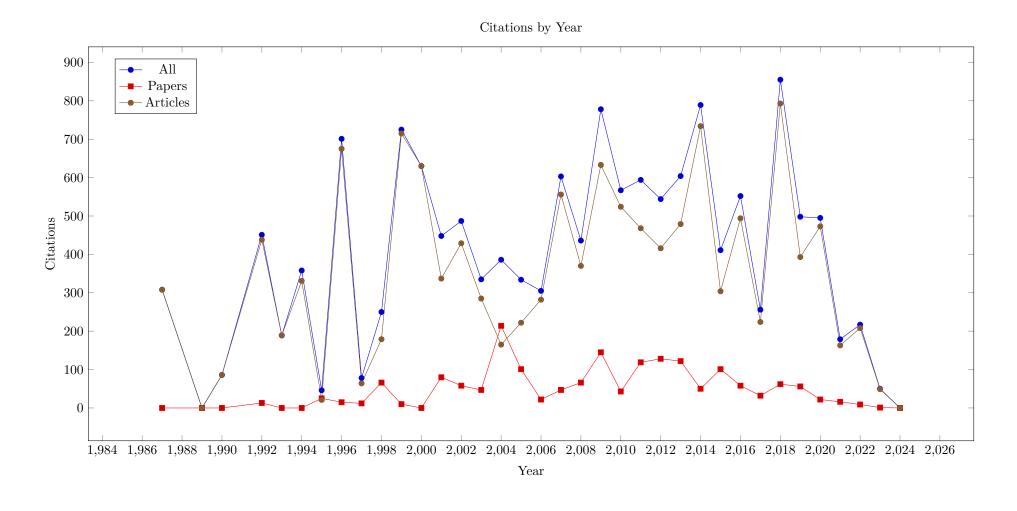


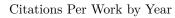


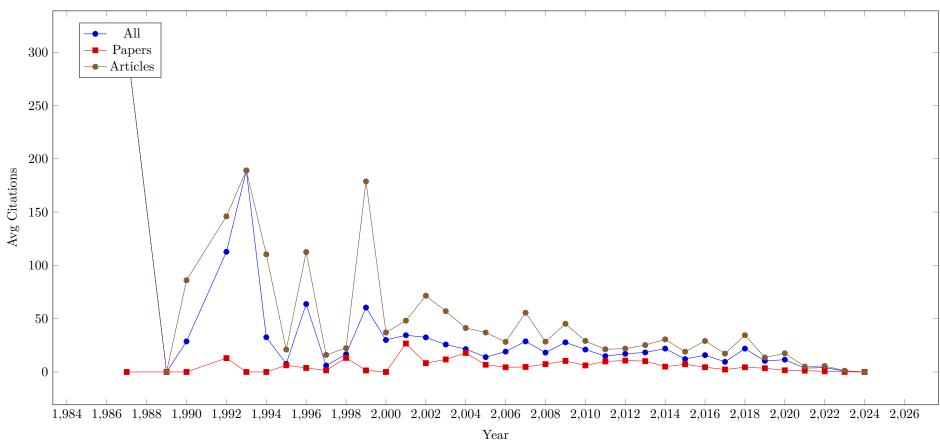
7 Works by Year

7.1 Relevant Works

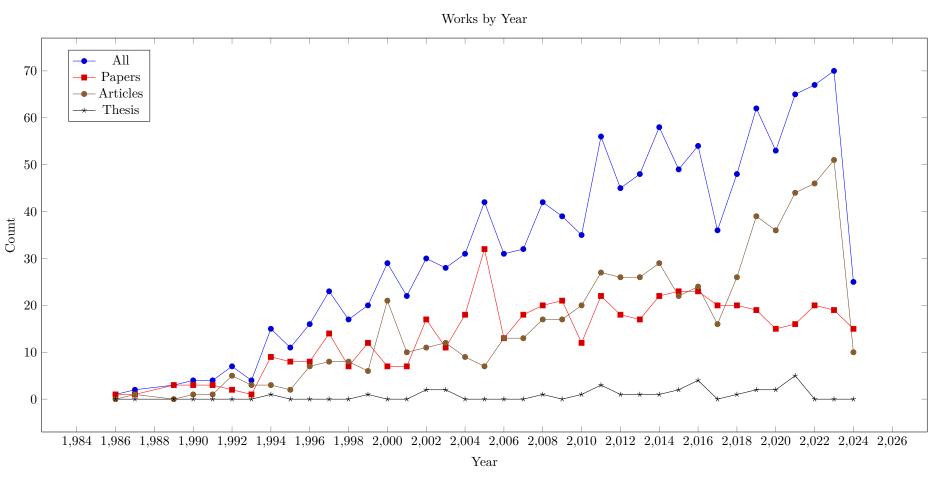


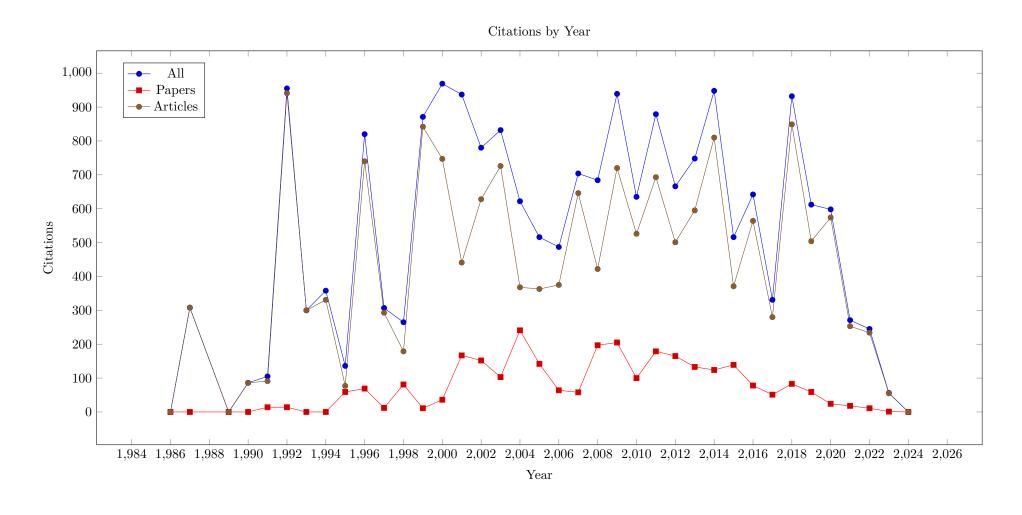


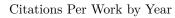


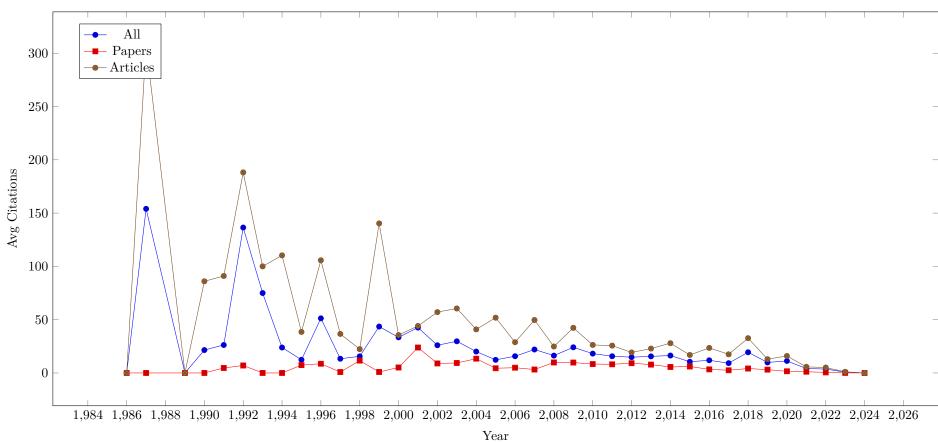


7.2 All Works

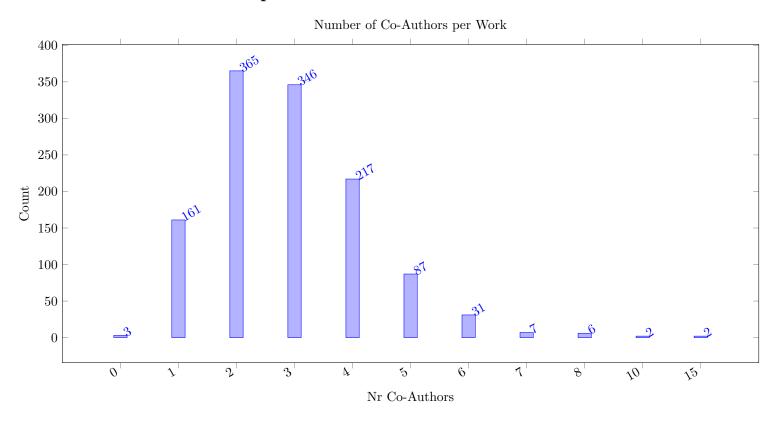




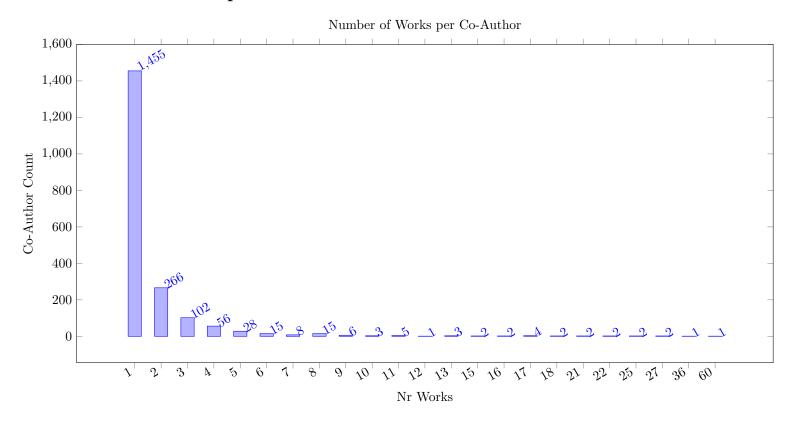




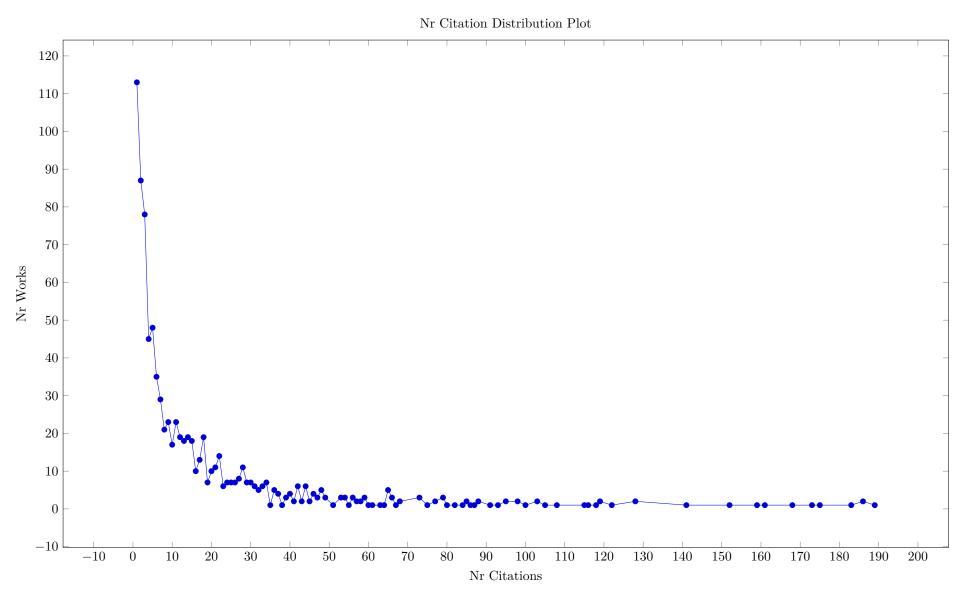
8 Number of Coauthors per Work



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.

Generated: September 3, 2024

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)																			
	tal	randiASC20	Tang2020	Ziadlou2024	Schutt11	5-1902-09244	nusogluY22	$_{ m uSZW23}$	VilimLS15	Siala15a	2211-14492	HNso	5-1911-04766	5-2402-00459	ngBI	raszeckMCCR23	Sciau2024	ZeballosOH10	eckM1	
From/To	Ęl	Zaı	T_{a_1}	Zia	Sch	abs-	Ϋ́n	Zhi	Vil	Sia	abs	Zel	abs-	abs-	Zh	Yu	Sci	Zel	Yuc	
Total		114707.00	92829.00	88950.00	85861.00	85404.00	85168.00	82788.00	82365.00	81381.00	80874.00	78187.00	77774.00	77191.00	76409.00	75825.00	74881.00	73734.00	73382.00	72241
Baptiste02	108448.00	330.00	260.00	198.00	266.00	173.00	201.00	169.00	172.00	226.00	161.00	172.00	148.00	135.00	159.00	163.00	185.00	149.00	193.00	137
	107087.00	307.00	259.00	187.00	228.00	174.00	200.00	165.00	162.00	191.00	151.00	143.00	157.00		153.00	144.00	197.00			130
Beck99	98391.00	240.00	208.00	159.00	229.00	154.00	164.00	157.00	155.00	194.00	143.00	147.00	138.00	137.00	133.00	126.00	181.00	137.00	130.00	132
BartakSR10	92267.00	232.00	190.00	165.00	207.00	134.00	161.00	152.00	143.00	177.00	142.00	140.00	118.00	120.00	148.00	118.00	145.00	129.00	145.00	126
Dejemeppe16	91908.00	336.00	282.00	214.00	283.00	197.00	219.00	168.00	174.00	251.00	170.00	182.00	171.00	163.00	160.00	151.00	198.00	157.00	162.00	140
AwadMDMT22	87689.00	226.00	207.00	159.00	168.00	153.00	176.00	134.00	132.00	135.00	133.00	150.00	129.00		117.00	130.00	141.00			123
BeckDDF98	85063.00	223.00	180.00	158.00	160.00	146.00	158.00	136.00	124.00	161.00	126.00		111.00		116.00	110.00	148.00			130
AbreuN22	82635.00	229.00	153.00	162.00	146.00	137.00	167.00	142.00	124.00	128.00	137.00		108.00		116.00	134.00	111.00			105
AbreuPNF23	82141.00	232.00	163.00	167.00	155.00	146.00	176.00	135.00	114.00	125.00	124.00	113.00	105.00		108.00	125.00	119.00			105
AfsarVPG23	82041.00	190.00	151.00	141.00	137.00	138.00	144.00	128.00	121.00	125.00	132.00	108.00	118.00		110.00	121.00	139.00			107
AstrandJZ20	80950.00	181.00	163.00	123.00	153.00	131.00	131.00	122.00	127.00	150.00	108.00		109.00			114.00	129.00			102
ArtiguesLH13	79643.00	158.00	166.00	128.00	149.00	123.00	152.00	95.00	119.00	125.00	108.00	134.00	109.00		97.00	94.00	125.00			117
Groleaz21	77963.00	368.00	295.00	226.00	246.00	198.00	227.00	201.00	195.00	234.00	191.00	166.00	171.00		181.00	159.00	213.00			131
ArmstrongGOS21 BartakSR08	77489.00 76981.00	174.00 158.00	161.00 148.00	139.00 127.00	148.00 164.00	121.00 108.00	145.00 122.00	136.00 123.00	119.00 121.00	124.00 151.00	118.00 112.00	99.00 105.00	123.00 95.00		118.00 120.00	119.00 102.00	122.00 113.00			104 100
Fahimi16	76642.00	239.00	207.00	155.00	257.00	152.00	147.00	159.00	159.00	226.00	140.00	146.00	138.00		140.00	131.00	196.00			128
ColT22	76539.00	248.00	201.00	185.00	162.00	153.00	179.00	158.00	141.00	162.00	147.00	139.00	153.00	138.00	133.00	142.00	153.00			128
Caseau2001	76379.00	196.00	172.00	126.00	197.00	135.00	138.00	126.00	145.00	163.00	125.00		118.00		131.00	136.00	132.00			112
Caballero19	74993.00	170.00	170.00	118.00	239.00	129.00	123.00	116.00	158.00	202.00	106.00	109.00	121.00		120.00	126.00	159.00			98
AbreuNP23	74810.00	203.00	142.00	161.00	131.00	131.00	157.00	137.00	116.00	119.00	124.00	102.00	94.00		112.00	126.00	95.00			92
Akan2023	74295.00	240.00	161.00	148.00	152.00	142.00	135.00	102.00	111.00	105.00	109.00		100.00		88.00	107.00	139.00			
BlazewiczDP96	74133.00	231.00	184.00	133.00	179.00	126.00	141.00	131.00	123.00	149.00	123.00	114.00	97.00		134.00	95.00	129.00			94
BajestaniB13	73425.00	181.00	179.00	124.00	120.00	115.00	128.00	117.00	110.00	110.00	102.00	114.00	89.00	100.00	96.00	86.00	137.00			86
Godet21a	73229.00	256.00	242.00	184.00	263.00	155.00	166.00	154.00	177.00	248.00	157.00		159.00			158.00	215.00			
AbreuAPNM21	72859.00	208.00	143.00	147.00	128.00	121.00	147.00	127.00	103.00	114.00	119.00	89.00	90.00	113.00	107.00	121.00	96.00	96.00	152.00	86
BidotVLB09	72349.00	190.00	155.00	119.00	140.00	134.00	139.00	110.00	122.00	134.00	105.00	126.00	102.00	101.00	106.00	113.00	132.00	114.00	114.00	115
BeckF98	71829.00	177.00	151.00	111.00	142.00	115.00	122.00	122.00	113.00	142.00	109.00	100.00	102.00	108.00	97.00	100.00	122.00	97.00	96.00	99
AlfieriGPS23	71447.00	190.00	142.00	140.00	118.00	132.00	141.00	116.00	99.00	107.00	116.00	102.00	82.00			110.00	90.00			97
ArkhipovBL19	71355.00	137.00	133.00	93.00	166.00	104.00	105.00	97.00	135.00	121.00	92.00	89.00	97.00	87.00	103.00	108.00	121.00			78
Artigues2011	71298.00	136.00	130.00	100.00	156.00	102.00	98.00	109.00	127.00	146.00	99.00		75.00		122.00	100.00	104.00			83
Banaszak2014	71118.00	155.00	115.00	114.00	124.00	96.00	97.00	109.00	105.00	123.00	97.00		87.00		93.00	88.00	114.00			
BosiM2001	70189.00	156.00	162.00	124.00	162.00	110.00	131.00	111.00	137.00	158.00	115.00	114.00	100.00		126.00	112.00	106.00			95
Brucker2002	70113.00	196.00	190.00	129.00	180.00	132.00	138.00	130.00	152.00	156.00	119.00	120.00	100.00		129.00	129.00	140.00			93
BeckF00	69945.00	146.00	130.00	106.00	167.00	108.00	105.00	110.00	117.00	156.00	99.00		93.00		107.00	91.00	123.00			
Braune2022 BonninMNE24	69094.00	146.00 172.00	153.00 156.00	121.00 122.00	165.00	125.00 113.00	133.00	128.00 112.00	131.00 119.00	136.00 130.00	115.00	116.00 98.00	112.00 110.00	104.00 99.00	118.00	118.00 106.00	114.00 118.00			103 99
BeckR03	68937.00 67978.00	156.00	149.00	122.00 127.00	159.00 132.00	131.00	122.00 127.00	115.00	119.00	134.00	104.00 111.00	129.00	93.00		112.00 103.00	90.00	110.00			
BeckPS03	67723.00	151.00	135.00	116.00	138.00	122.00	120.00	106.00	116.00	131.00	104.00	115.00	91.00	92.00	99.00	105.00	99.00			107
ChenGPSH10	67577.00	163.00	158.00	115.00	164.00	101.00	109.00	121.00	127.00	149.00	110.00	120.00	96.00	96.00		97.00	127.00			107
Bit-Monnot23	67573.00	135.00	126.00	105.00	154.00	106.00	99.00	120.00	129.00	177.00	105.00	94.00	103.00	98.00	121.00	105.00	112.00			91
AntuoriHHEN20	67335.00	134.00	127.00	95.00	121.00	104.00	100.00	82.00	95.00	113.00	109.00		86.00		90.00	78.00	110.00			
Benedetti2008	67219.00	138.00	121.00	108.00	140.00	102.00	103.00	103.00	111.00	130.00	98.00	102.00	94.00	88.00	94.00	97.00	121.00			96
Other		106273.00	85609.00	83071.00	78666.00	79875.00	79175.00	77397.00	76866.00	74943.00	75759.00	73164.00	73082.00	72515.00	71399.00	70940.00	69201.00	69126.00	68219.00	67753

	Table 12: Heat Map based on 100*Cosine Similarity of Concepts (high = similar)																							
From/To Total	Total	18.195 ZeballosM09	\$ ZeballosH05	5 abs-2312-13682	abs-1901-0791	543.30 543.30	241.79 ShangYW21	600ZuninX 540.22	0ZnoZ 538.49	28.53 28.13 28.26ballosQH10	28°55 28°55 18°55 2005	28. 29. 34. 39. 30. 30. 30.	90JloM 9 529.59	58 86 6 abs-2211-14492	527.84 527.84	25.75 9 ZeballosNH11	25-2305-19888 2 abs-2305-19888	20.05 WatsonB08	55 4. 9. ZibranR11a	25 25 3 abs-2306-05747	523.99 6 Zou2024	21.025 WikarekS19	25.65 27.00 27.00 27.00 27.00 27.00	Other
Banaszak2014	561.24	0.77	0.76	0.59	0.67	0.65	0.63	0.76	0.62	0.66	0.66	0.56	0.68	0.59	0.60	0.66	0.57	0.64	0.60	0.57	0.62	0.65	0.65	547.07
Banaszak2008	557.92	0.80	0.77	0.60	0.70	0.64	0.59	0.80	0.59	0.70	0.67	0.56	0.71	0.62	0.59	0.66	0.56	0.67	0.62	0.59	0.58	0.64		543.63
Bartak02a	553.43	0.62	0.66	0.60	0.65	0.70	0.61	0.68	0.59	0.62	0.70	0.57	0.66	0.59	0.61	0.59	0.53	0.63	0.50	0.57	0.56	0.67		539.96
BartakSR08	551.91	0.60	0.66	0.57	0.60	0.68	0.63	0.70	0.56	0.59	0.80	0.58	0.70	0.63	0.71	0.60	0.56	0.67	0.52	0.59	0.60	0.70		538.00
BeckPS03	540.82	0.73	0.78	0.57	0.64	0.73	0.68	0.72	0.55	0.70	0.70	0.73	0.74	0.65	0.66	0.74	0.60	0.73	0.49	0.64	0.59	0.72		526.09
AstrandJZ20	540.70	0.61	0.63	0.61	0.56	0.67	0.67	0.67	0.53	0.59	0.57	0.66	0.62	0.57	0.68	0.59	0.62	0.67	0.52	0.64	0.55	0.63	0.67	527.19
AfsarVPG23	540.38	0.62	0.65	0.54	0.53	0.63	0.74	0.56	0.59	0.68	0.52	0.69	0.62	0.69	0.61	0.58	0.59	0.69	0.50	0.67	0.59	0.55	0.60	526.96
ArkhipovBL19	532.51	0.54	0.54	0.51	0.53	0.80	0.65	0.55	0.49	0.57	0.63	0.59	0.71	0.54	0.64	0.54	0.59	0.60	0.41	0.55	0.56	0.72	0.54	519.74
AstrandJZ18	532.09	0.67	0.66	0.69	0.69	0.62	0.52	0.69	0.56	0.64	0.54	0.52	0.60	0.51	0.53	0.53	0.55	0.56	0.64	0.51	0.52	0.54	0.56	519.25
Benedetti2008	528.56	0.66	0.69	0.60	0.61	0.68	0.64	0.71	0.59	0.65	0.75	0.60	0.78	0.60	0.61	0.64	0.60	0.64	0.50	0.61	0.62	0.66	0.64	514.48
AngelsmarkJ00	524.24	0.63	0.53	0.48	0.60	0.58	0.48	0.64	0.50	0.49	0.68	0.39	0.60	0.52	0.51	0.56	0.44	0.56	0.54	0.47	0.47	0.57	0.54	512.44
ArtiguesLH13	523.56	0.68	0.71	0.58	0.52	0.62	0.49	0.66	0.57	0.65	0.68	0.61	0.63	0.56	0.53	0.71	0.58	0.52	0.59	0.49	0.51	0.53	0.57	510.58
Astrand0F21	523.50	0.57	0.64	0.64	0.64	0.65	0.68	0.59	0.49	0.59	0.50	0.56	0.59	0.55	0.66	0.51	0.59	0.64	0.46	0.63	0.43	0.63	0.54	510.69
Beck07	523.08	0.64	0.64	0.56	0.56	0.73	0.71	0.73	0.55	0.58	0.64	0.64	0.68	0.67	0.73	0.61	0.52	0.85	0.60	0.68	0.61	0.65	0.60	508.92
AbidinK20	516.73	0.55	0.55	0.56	0.50	0.52	0.58	0.42	0.70	0.60	0.41	0.56	0.45	0.49	0.51	0.56	0.51	0.51	0.64	0.46	0.58	0.49		505.15
AalianPG23	516.52	0.62	0.59	0.73	0.59	0.59	0.54	0.63	0.56	0.59	0.47	0.58	0.56	0.44	0.52	0.48	0.61	0.55	0.61	0.56	0.53	0.49		504.18
Astrand2020	516.15	0.57	0.70	0.64	0.62	0.59	0.67	0.66	0.53	0.62	0.54	0.57	0.64	0.51	0.61	0.54	0.59	0.61	0.53	0.58	0.49	0.63		503.19
BeckDDF98	515.99	0.72	0.73	0.57	0.63	0.59	0.63	0.67	0.55	0.67	0.73	0.67	0.61	0.60	0.58	0.71	0.52	0.62	0.56	0.57	0.56	0.65		502.29
Bartak02	511.83	0.67	0.59	0.53	0.59	0.60	0.47	0.69	0.55	0.53	0.70	0.45	0.59	0.49	0.51	0.60	0.44	0.51	0.56	0.44	0.54	0.66	0.51	499.61
BeckFW11	511.58	0.61	0.62	0.63	0.60	0.74	0.72	0.67	0.47	0.63	0.59	0.62	0.70	0.72	0.75	0.55	0.62	0.93	0.53	0.77	0.54	0.69	0.62	497.25
Alaka21	511.01	0.53	0.60	0.56	0.57	0.52	0.63	0.53	0.68	0.60	0.47	0.53	0.51	0.49	0.53	0.46	0.55	0.48	0.52	0.48	0.66	0.50	0.54	499.08
Abuwarda2019	508.52	0.58	0.58	0.52	0.49	0.56	0.71	0.64	0.74	0.63	0.58	0.55	0.56	0.52	0.48	0.53	0.56	0.48	0.64	0.47	0.68	0.45		496.07
AwadMDMT22	508.47	0.61	0.66	0.53	0.47	0.61	0.65	0.55	0.58	0.66	0.59	0.68	0.68	0.61	0.57	0.71	0.66	0.58	0.51	0.58	0.54	0.56	0.57	495.32
Balduccini2017	508.13	0.58	0.55	0.52	0.58	0.61	0.48	0.62	0.54	0.47	0.61	0.47	0.54	0.54	0.49	0.54	0.46	0.58	0.50	0.50	0.52	0.60	0.55	496.26
AkramNHRSA23		0.54	0.56	0.57	0.63	0.55	0.62	0.56	0.57	0.55	0.52	0.47	0.57	0.63	0.50	0.43	0.59	0.59	0.57	0.58	0.51	0.43	0.58	491.89
Astrand21	503.69	0.54	0.57	0.53	0.49	0.61	0.61	0.54	0.51	0.55	0.52	0.63	0.55	0.56	0.61	0.55	0.62	0.57	0.47	0.57	0.55	0.55	0.66	491.33
BartakSR10	503.61	0.58	0.64	0.47	0.60	0.62	0.60	0.58	0.51	0.62	0.77	0.56	0.70	0.61	0.68	0.62	0.55	0.59	0.44	0.54	0.55	0.68	0.63	490.46
Artigues2011	503.42	0.53	0.54	0.44	0.51	0.71	0.63	0.57	0.42	0.52	0.62	0.55	0.63	0.55	0.72	0.52	0.47	0.63	0.38	0.53	0.50	0.70	0.54	491.21
AlakaP23	499.99	0.52	0.55	0.51	0.61	0.51	0.63	0.53	0.67	0.58	0.47	0.51	0.45	0.45	0.50	0.49	0.51	0.45	0.52	0.43	0.64	0.53	0.49	488.45
Adelgren2023	499.68	0.52	0.53	0.56	0.54	0.54	0.57	0.55	0.46	0.51	0.54	0.48	0.60	0.53	0.57	0.52	0.65	0.56	0.41	0.53	0.39	0.55	0.56	488.01
AlesioBNG15	499.32	0.55	0.53	0.51	0.56	0.54	0.60	0.50	0.66	0.56	0.54	0.48	0.58	0.53	0.51	0.54	0.56	0.55	0.64	0.52	0.60	0.49	0.56	487.22
Bocewicz2009	498.69	0.70	0.72	0.54	0.65	0.64	0.59	0.71	0.59	0.61	0.67	0.54	0.74	0.55	0.60	0.66	0.54	0.64	0.59	0.56	0.61	0.67	0.58	484.98
BockmayrP06	498.32	0.70	0.65	0.73	0.70	0.65	0.49	0.62	0.56	0.64	0.63	0.55	0.60	0.54	0.54 0.56	0.58	0.60	0.59	0.61	0.55	0.52	0.58	0.60	485.10
Beck99	497.59	0.60	0.62	0.51	0.57	0.62	0.64	0.57	0.55	0.60	0.71	0.59	0.65	0.57	0.56	0.60	0.55	0.63	0.50	0.56	0.59	0.60	0.55	484.64

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0.55

Beck06

BeckF00a

BeckF98

BenderWS21

BeniniLMR11

CarchraeB09

Alesio2013

AbreuN22

Other

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0.55 480.98

0.51 480.58

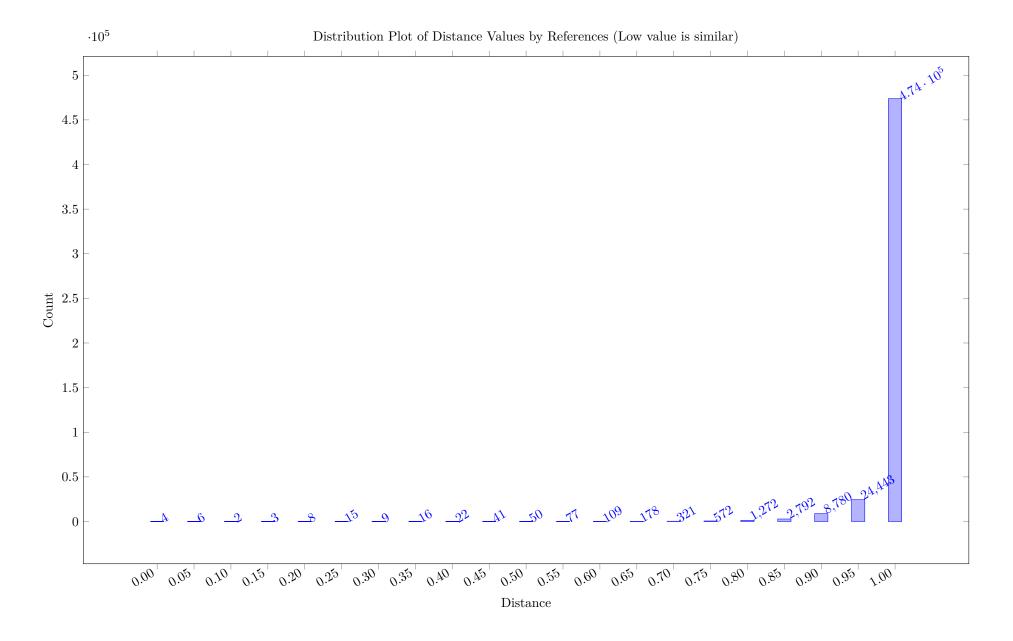
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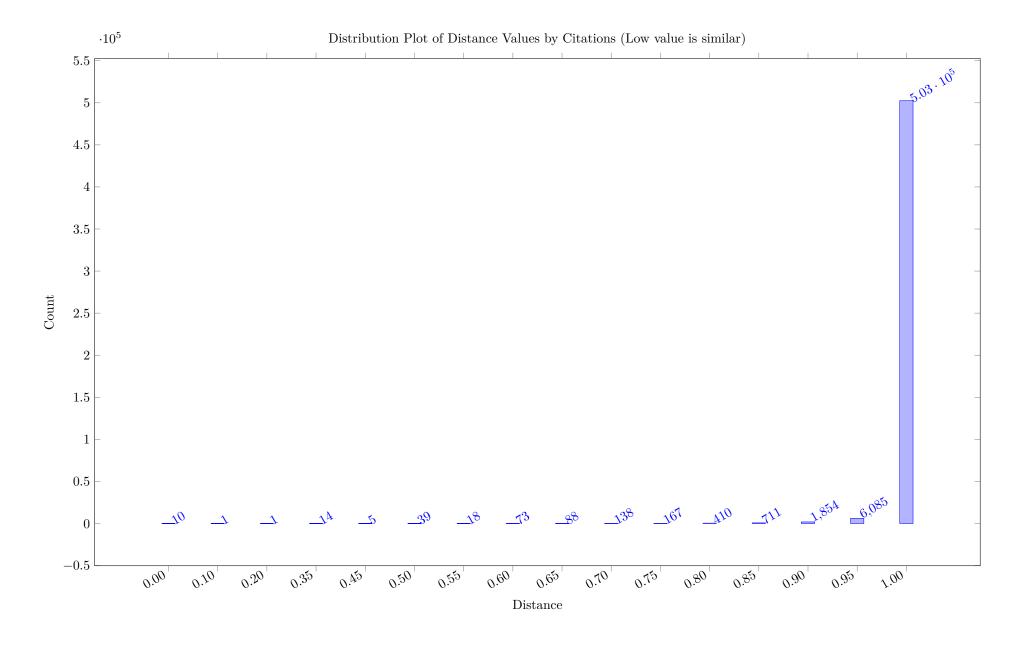
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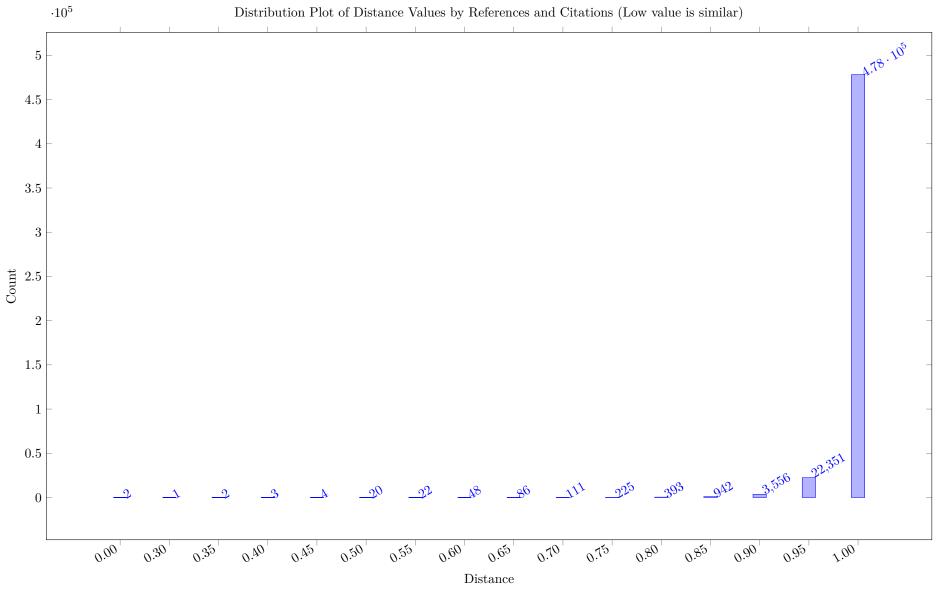
0.62 473.51

0.56 476.09

0.65 | 475.62



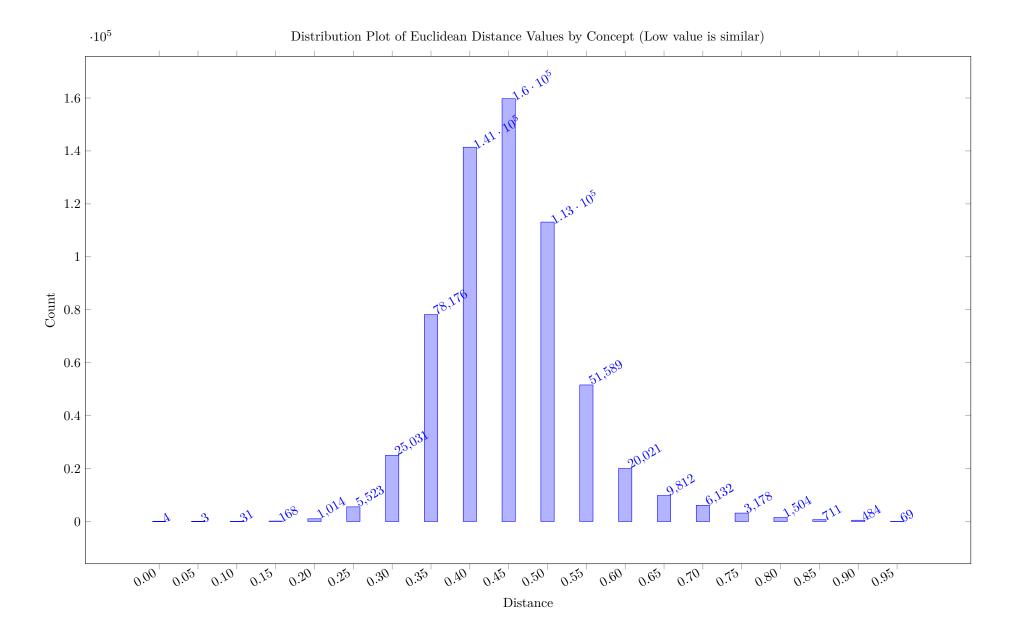


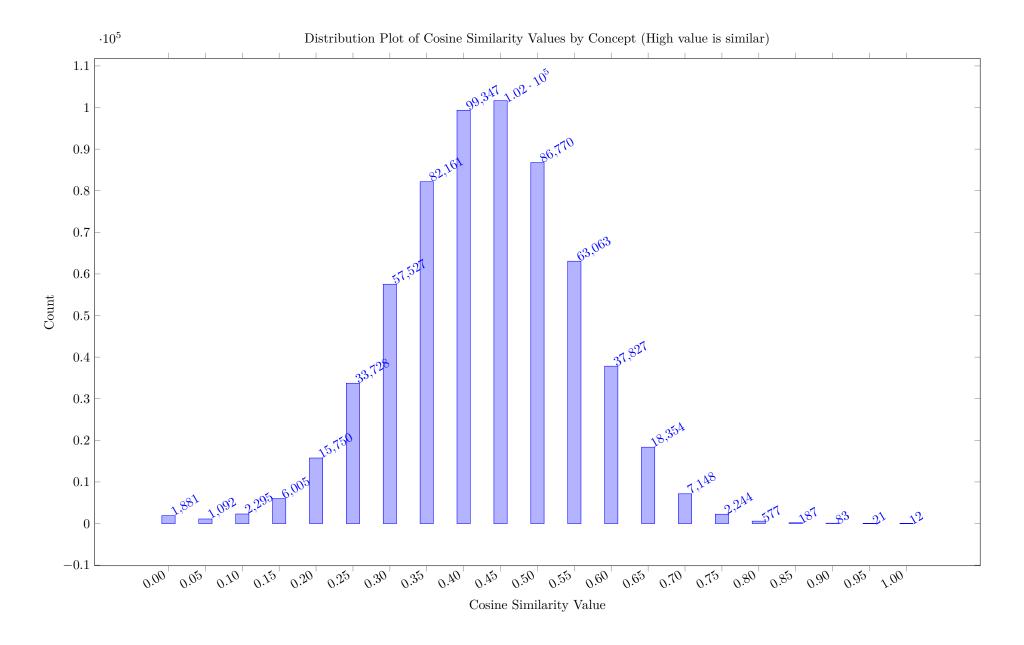


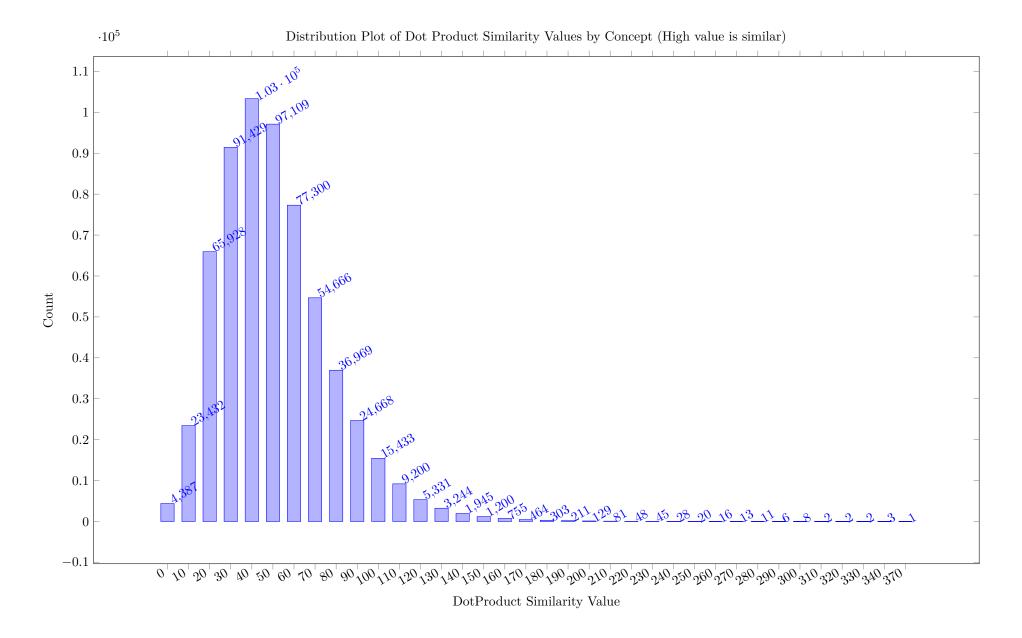
The similarity by concept uses the Euclidean distance between the feature vectors for two works. We translate the MatchLevel for each Concept into a linear

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.

Generated: September 3, 2024



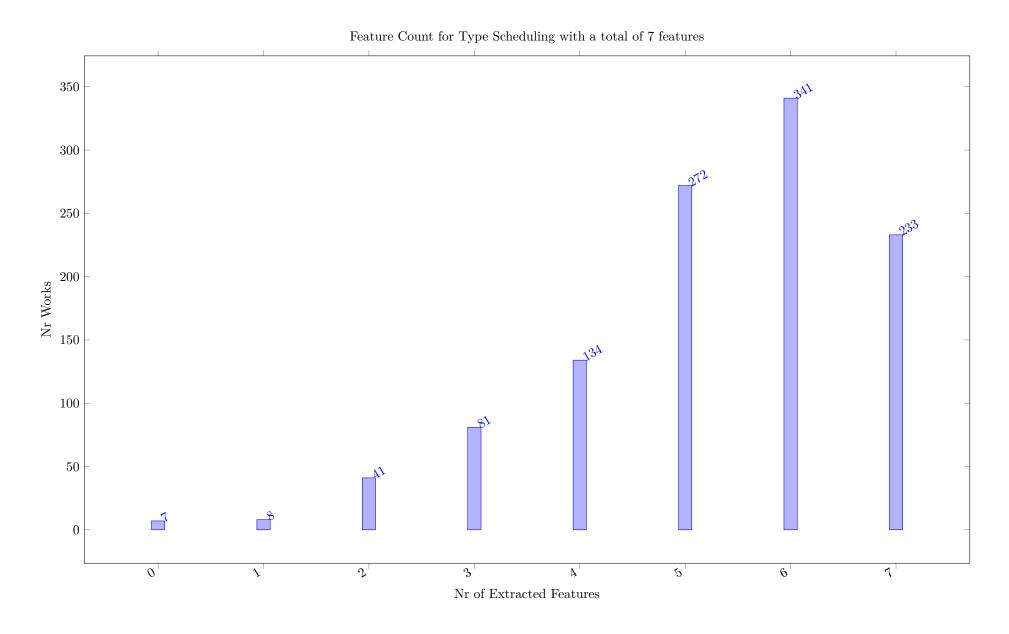


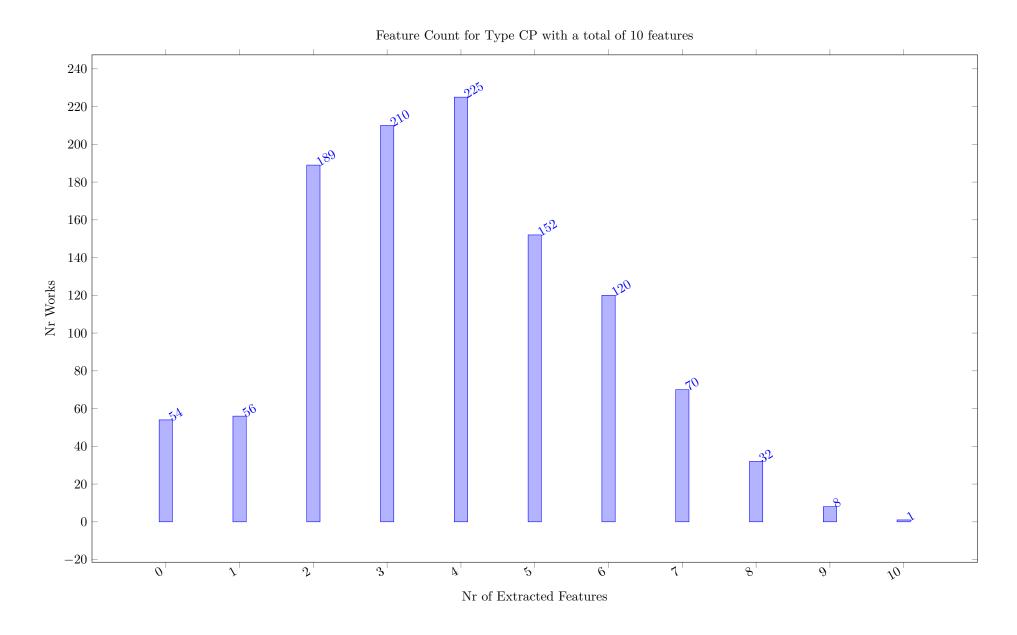


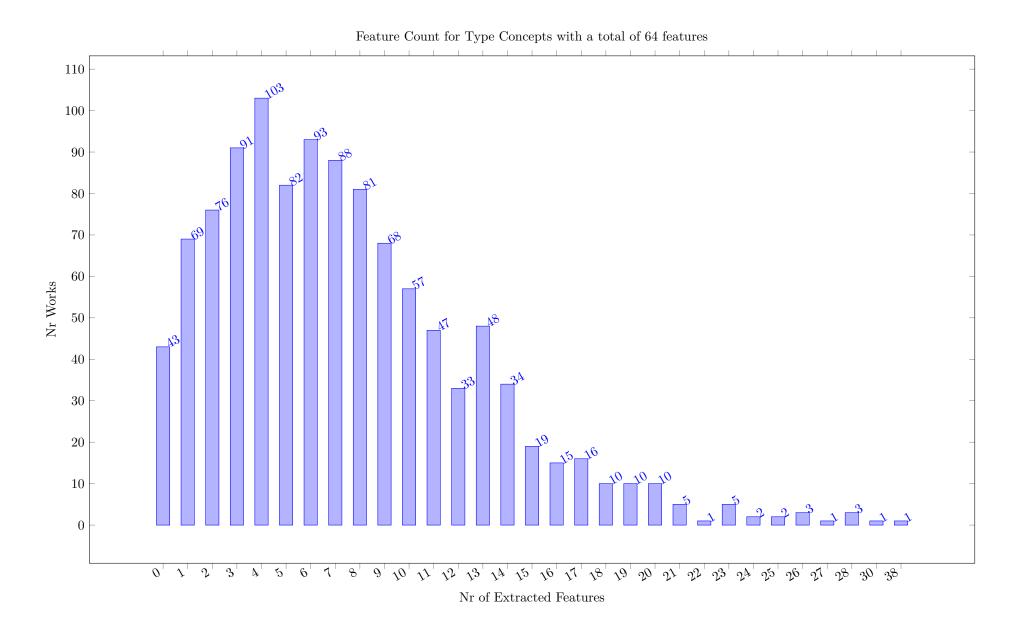
12 Concept Distribution

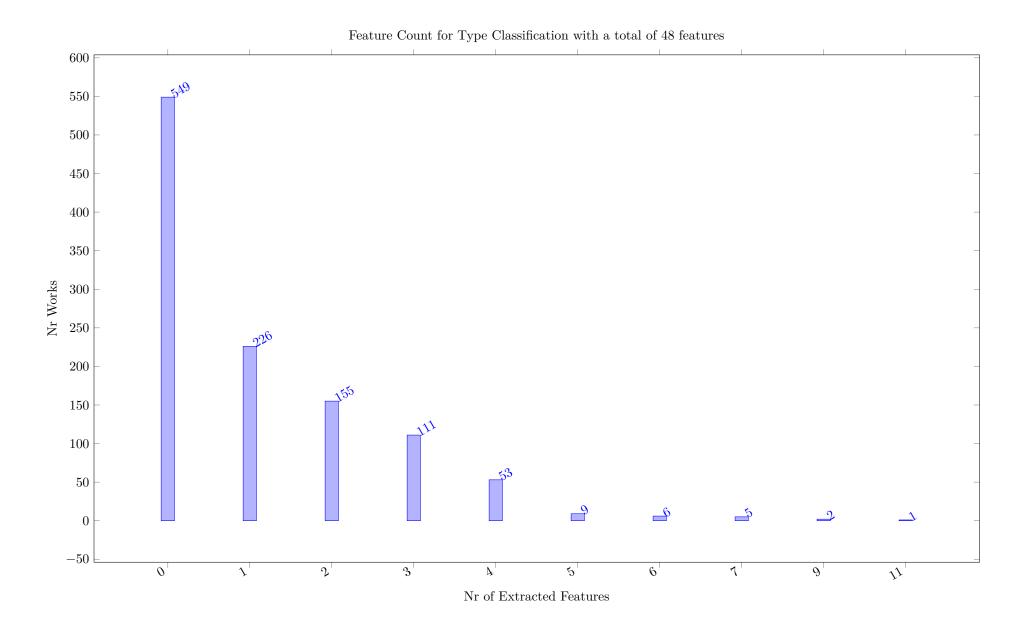
For each concept type, we count how many features are extracted by the individual works that do have a local copy, e.g. for which we can extract features. We can compare the number of features extracted to the number of concepts of a given type, which is stated in the title of the diagram.

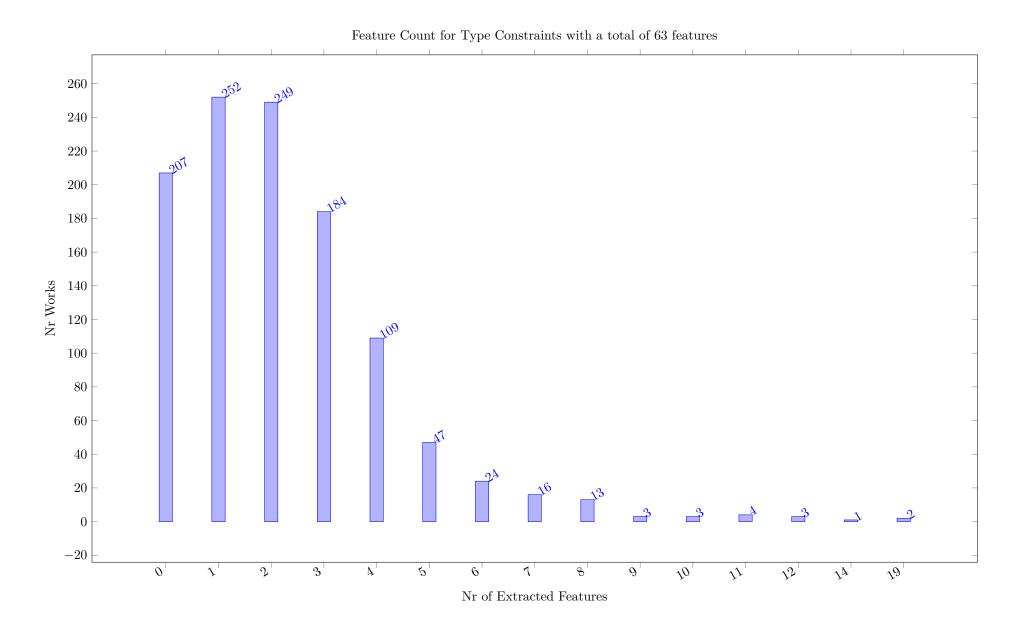
A high count indicates that a work covers many of the concepts of the given type, a low count might mean that our ontology does not have relevant concepts for that work.

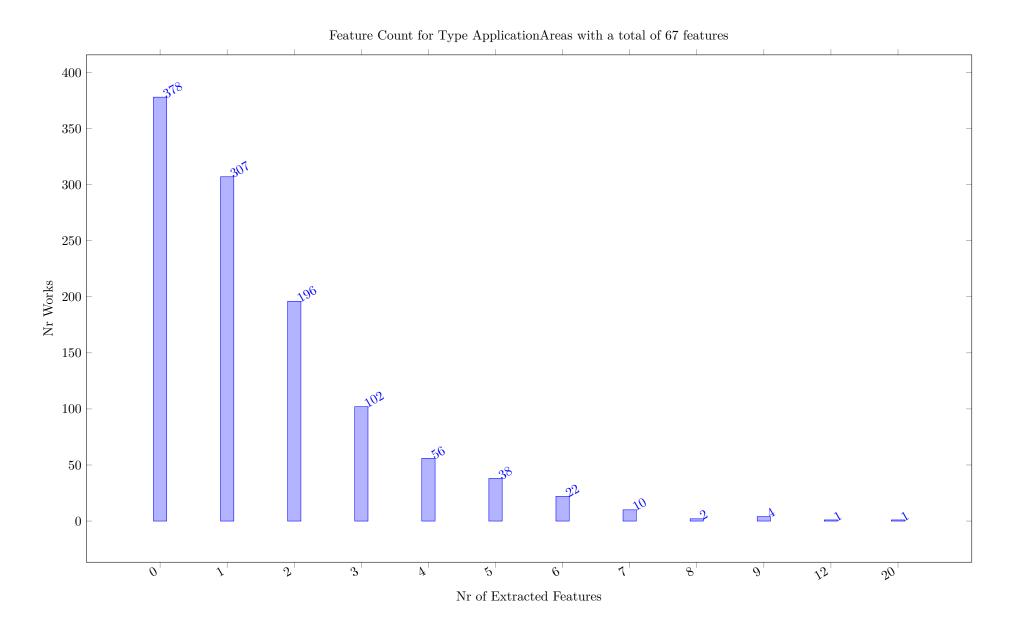


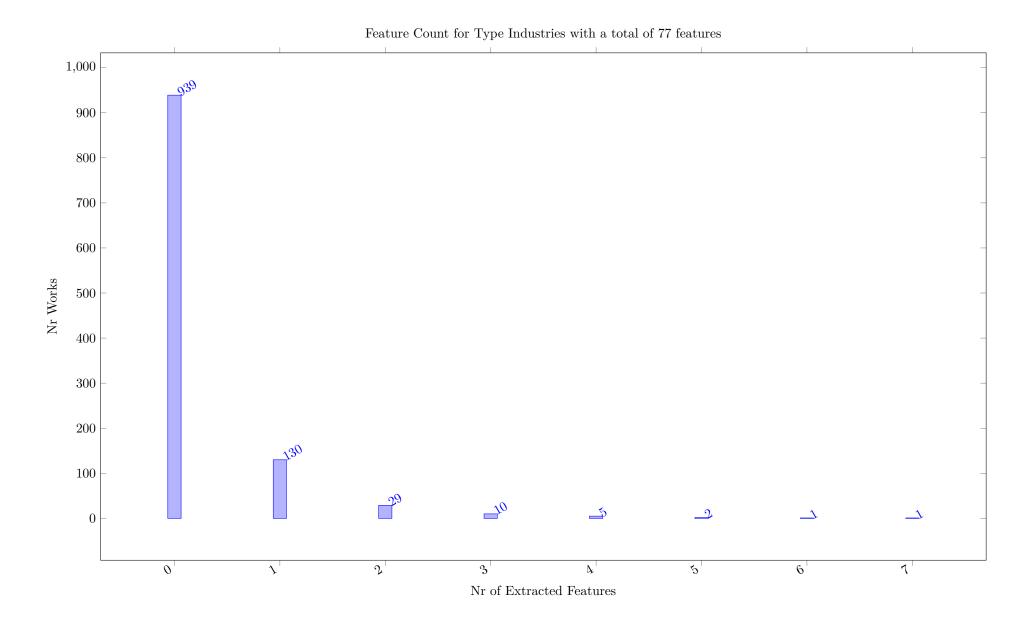


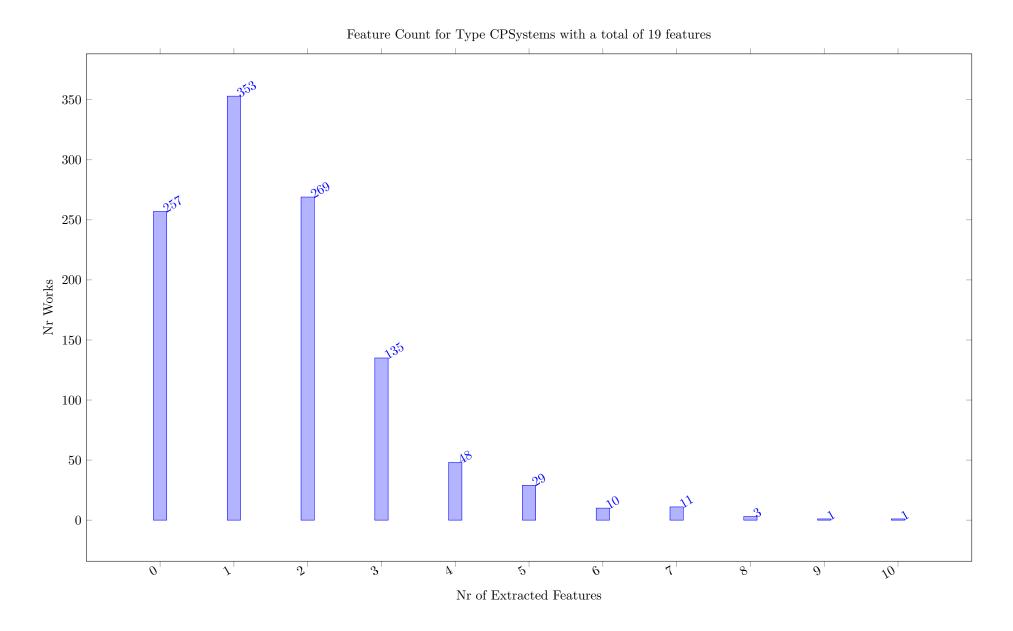


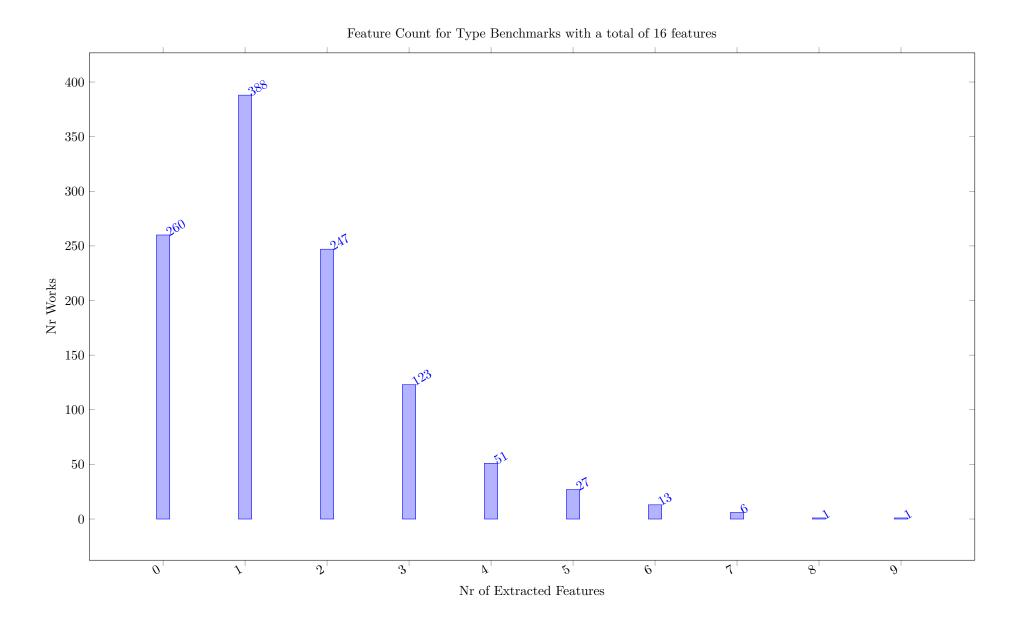


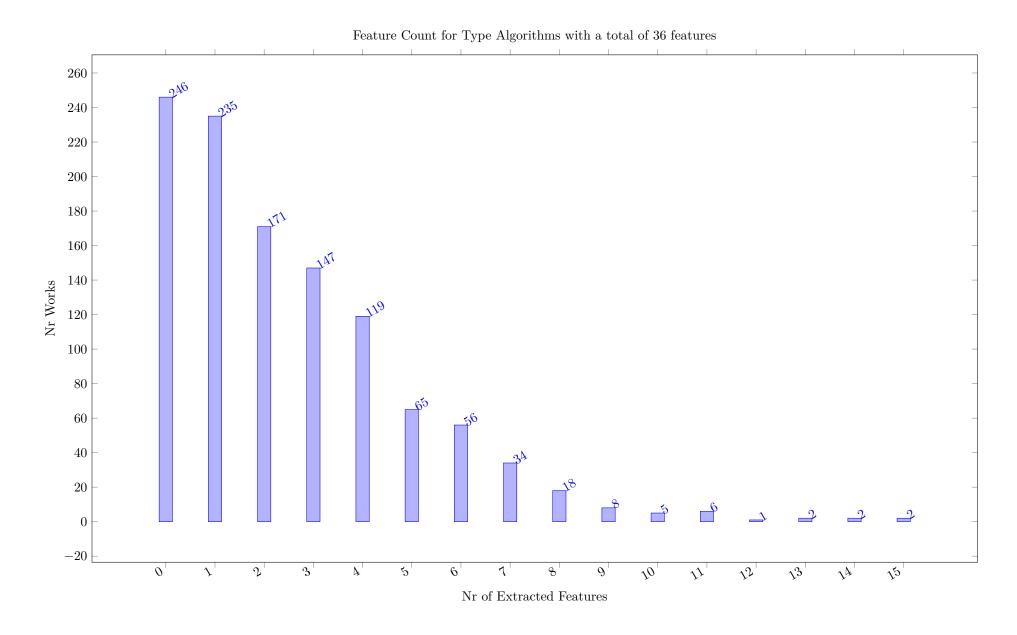












13 Coauthor graph

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: September 3, 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.

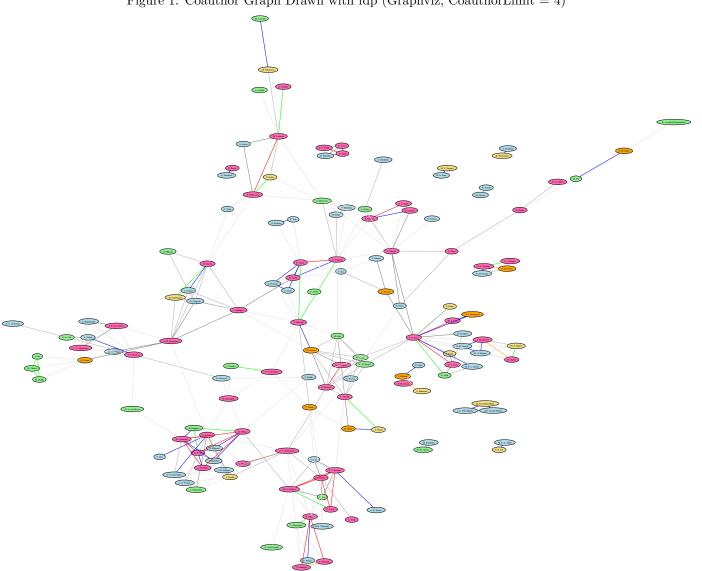
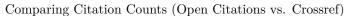
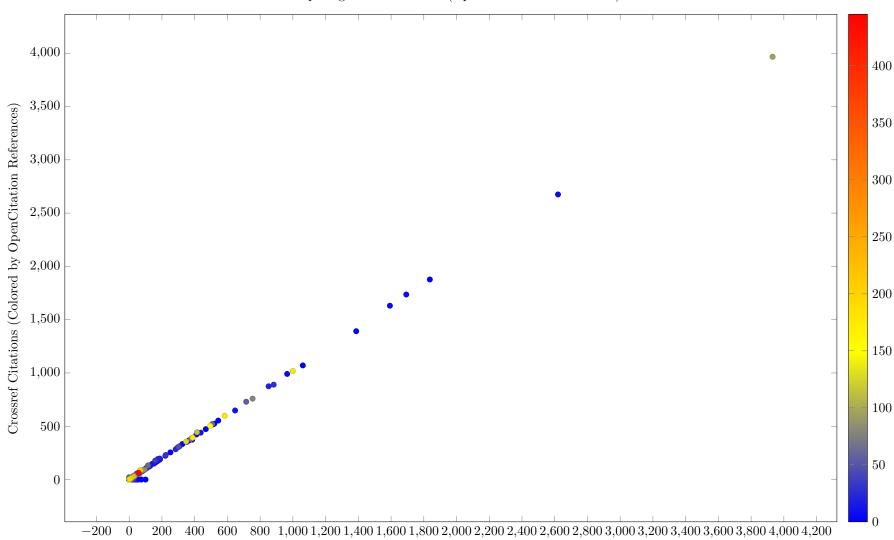


Figure 1: Coauthor Graph Drawn with fdp (Graphviz, Coauthor Limit =4)

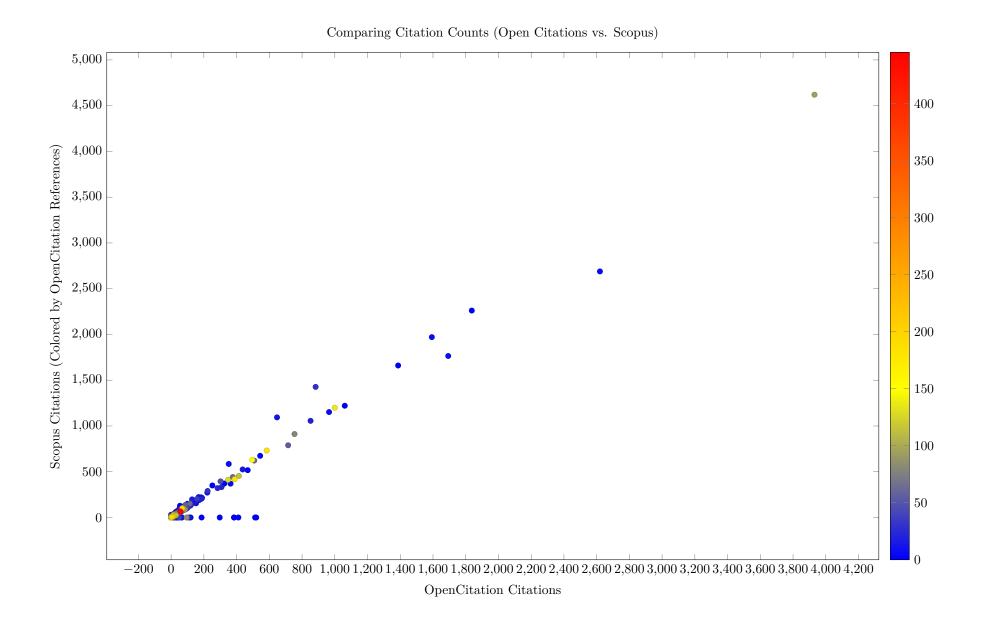
14 OpenCitations vs. Crossref Data vs. Scopus Data

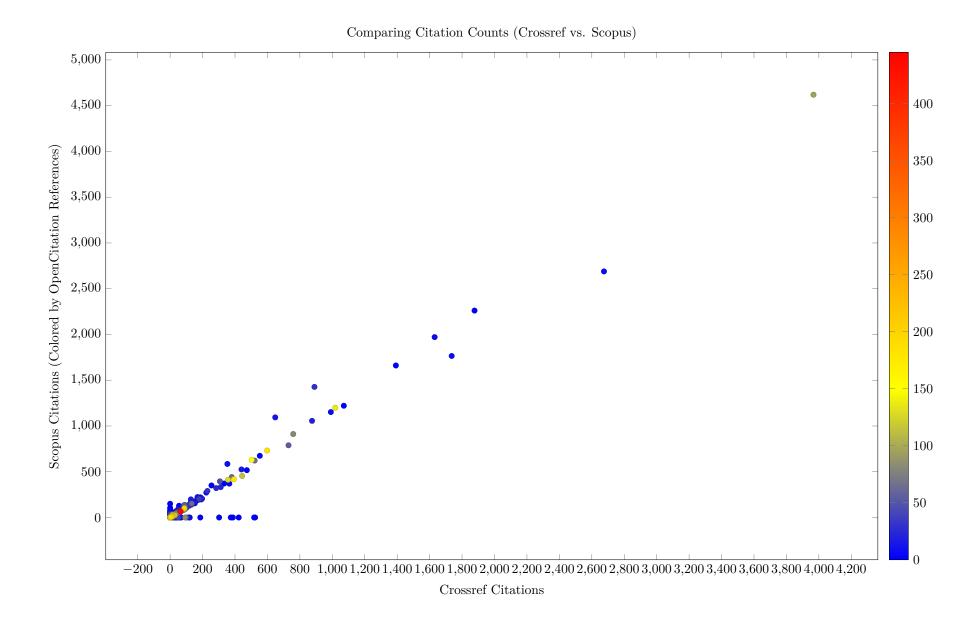
14.1 Citation Comparison

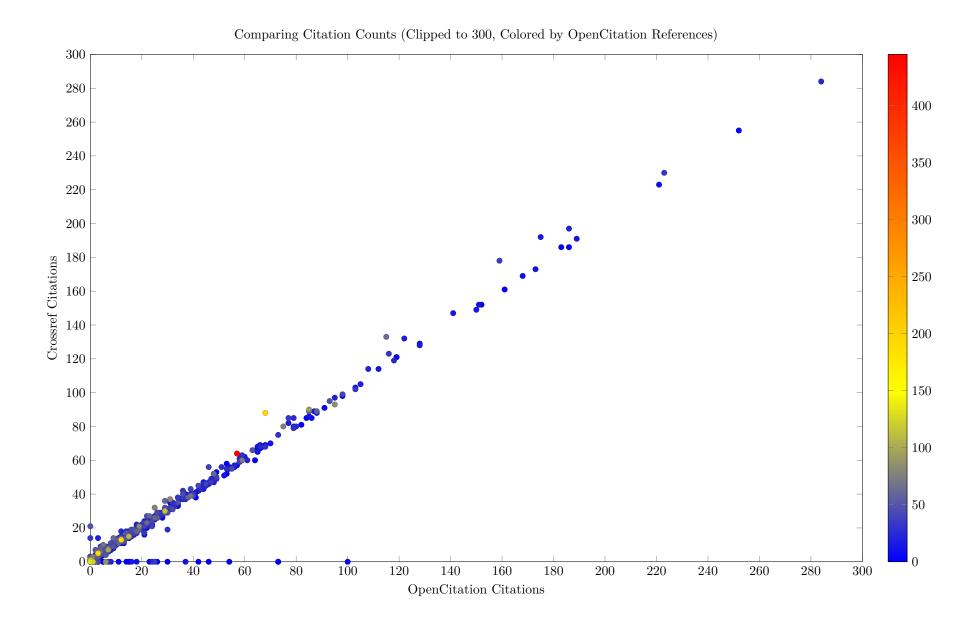


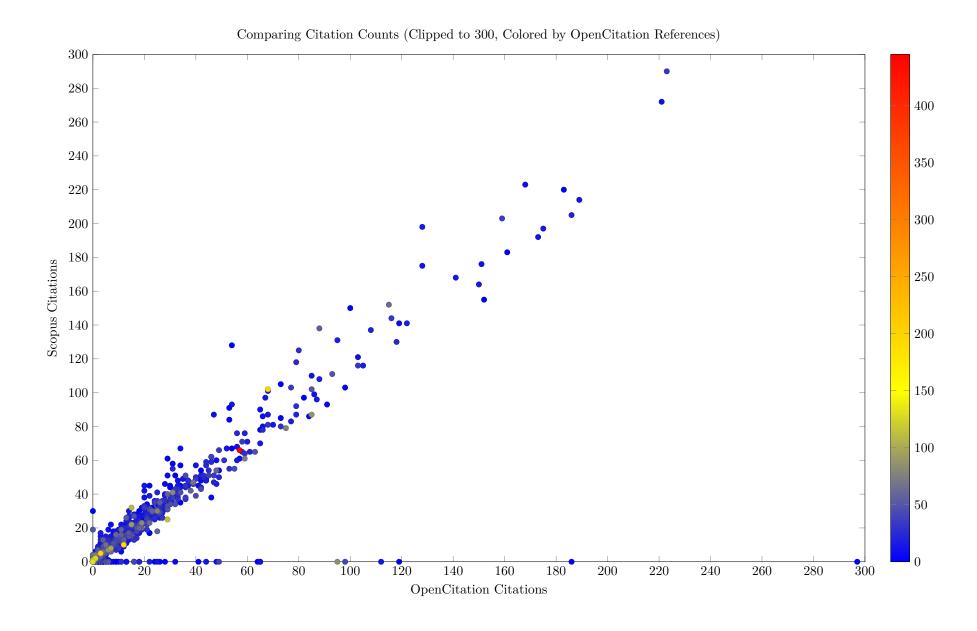


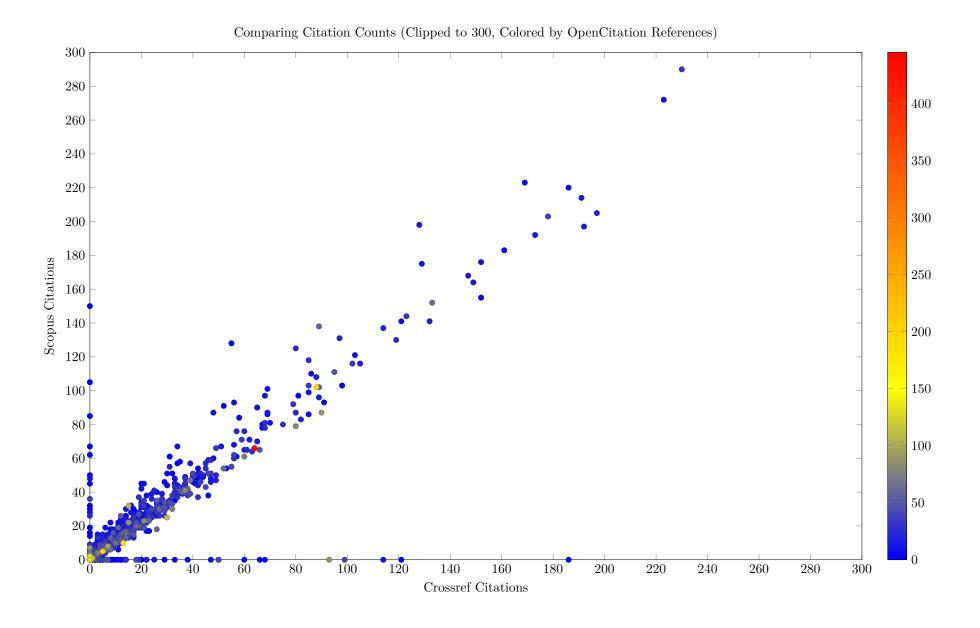
OpenCitation Citations Section 14 OPENCITATIONS VS. CROSSREF DATA VS. SCOPUS DATA



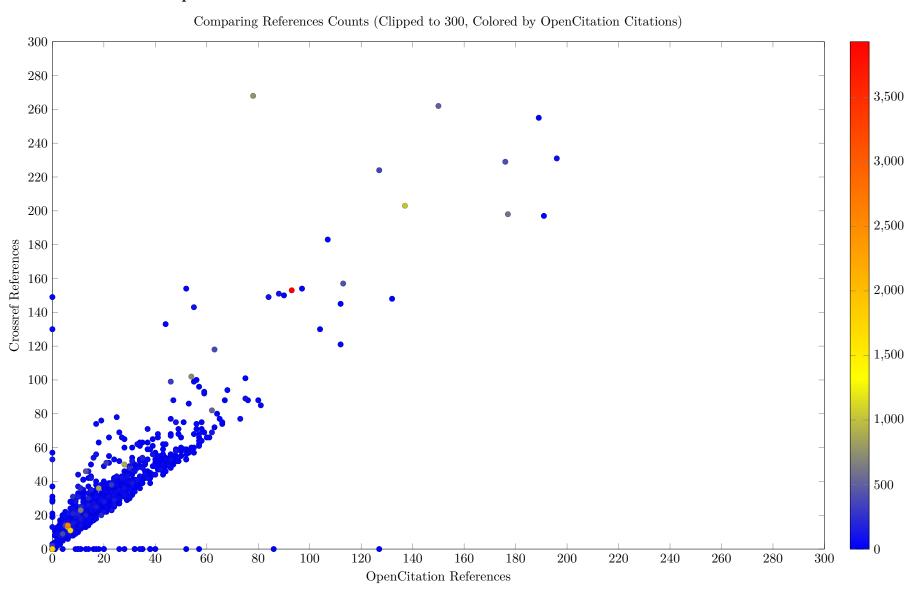




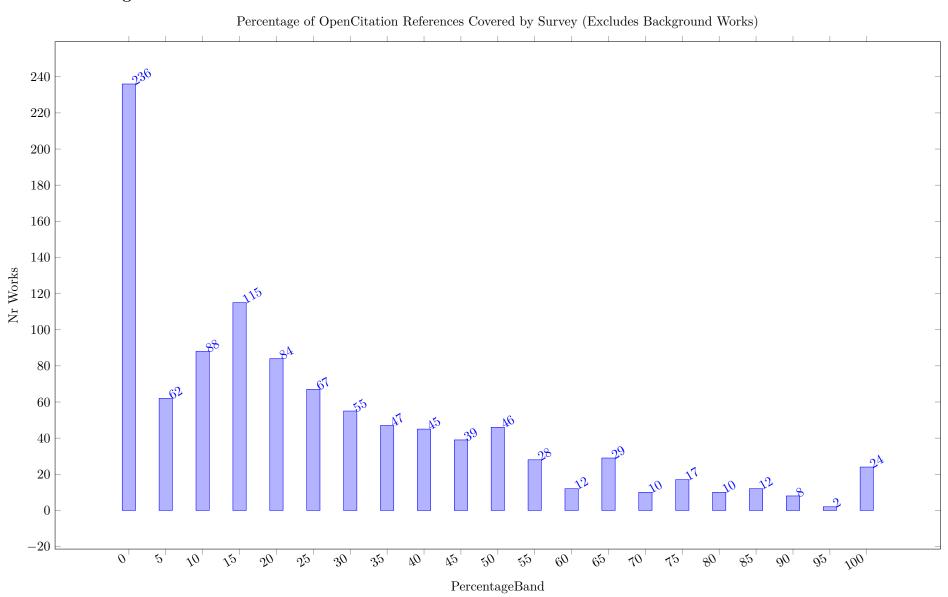


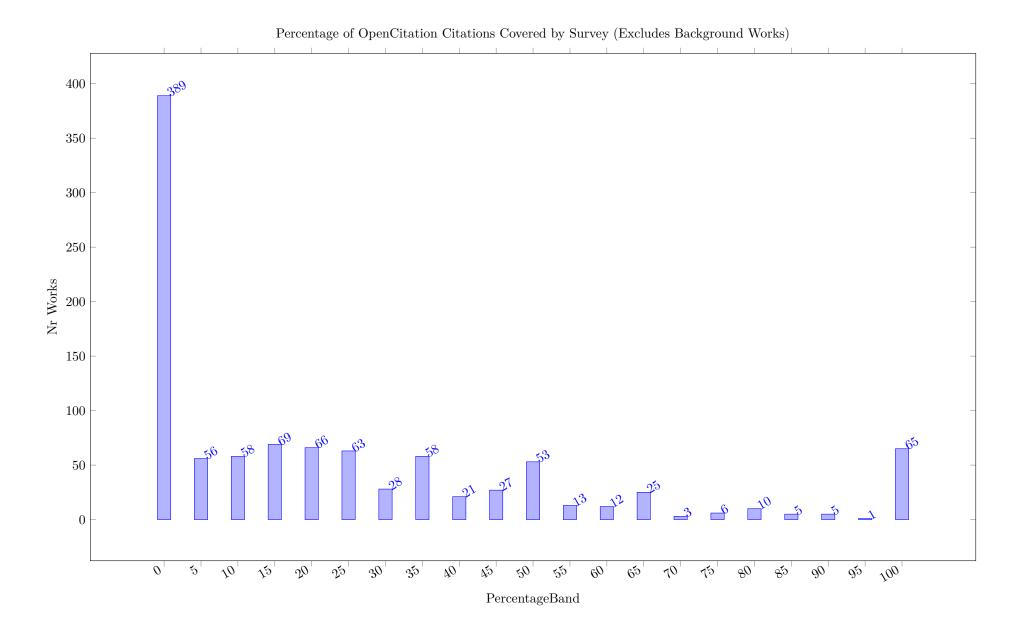


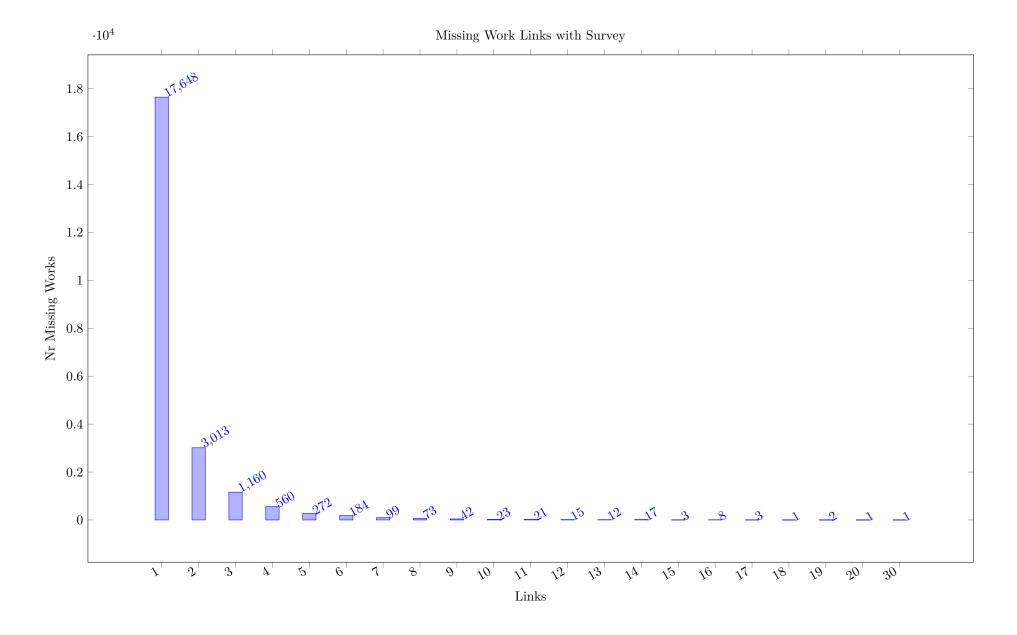
14.2 References Comparison



14.3 Percentage Cover







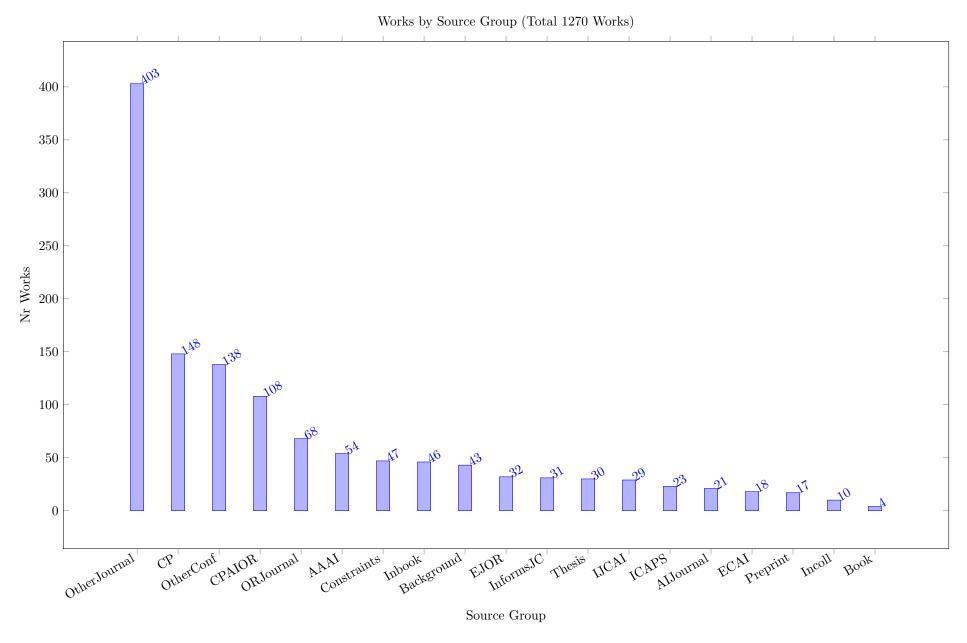
15 Citations by Year and Source Group

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

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

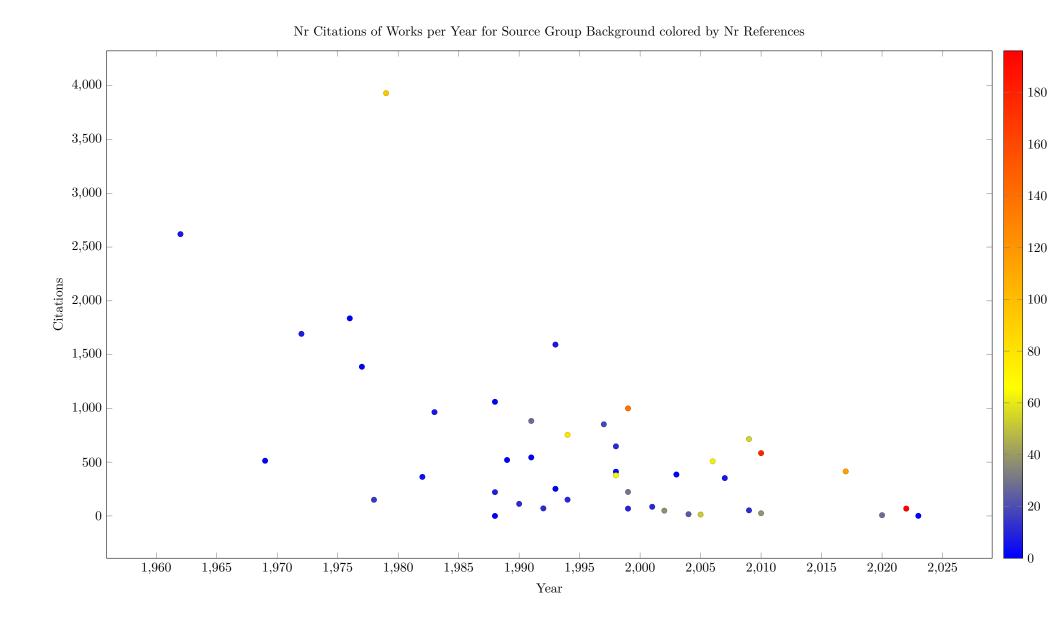
The first plot in this section shows how many works in each source group have been published. This considers the complete time period of the survey.

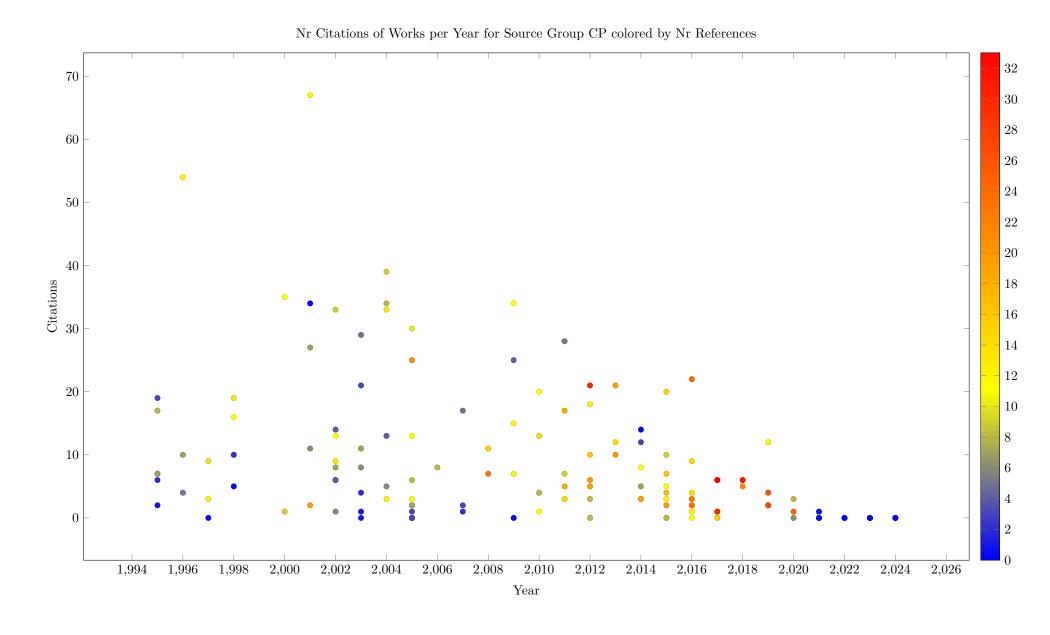


Section 15 CITATIONS BY YEAR AND SOURCE GROUP

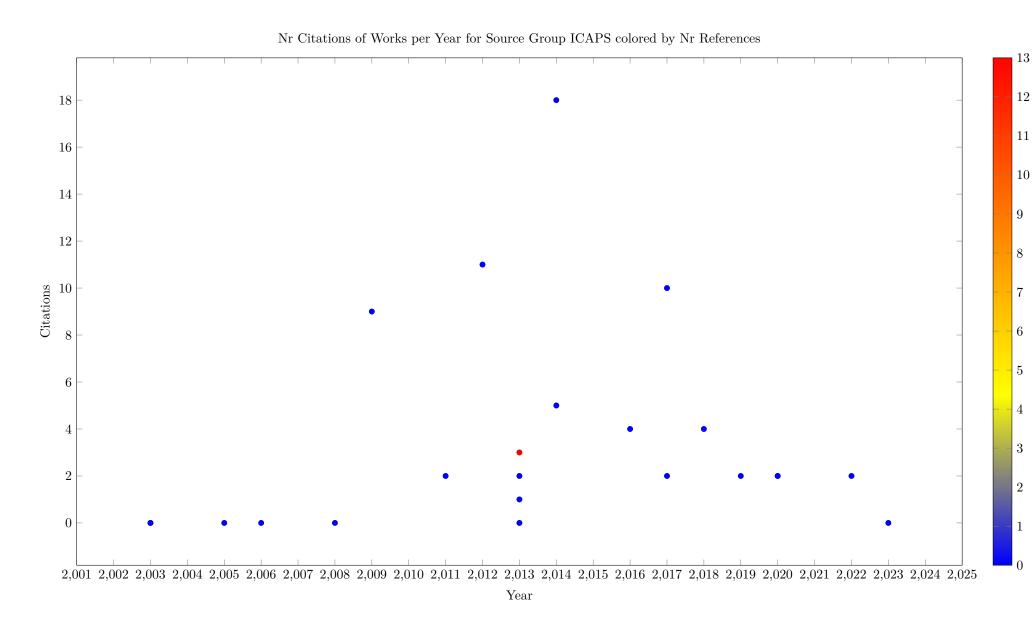
15.1 Source Group Citations by Year

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.

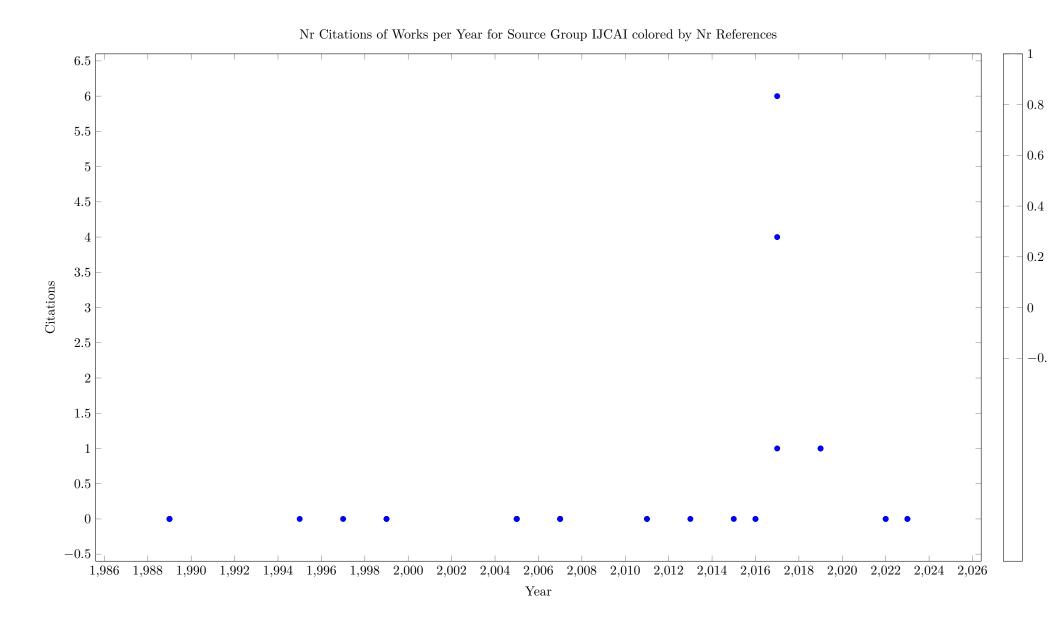


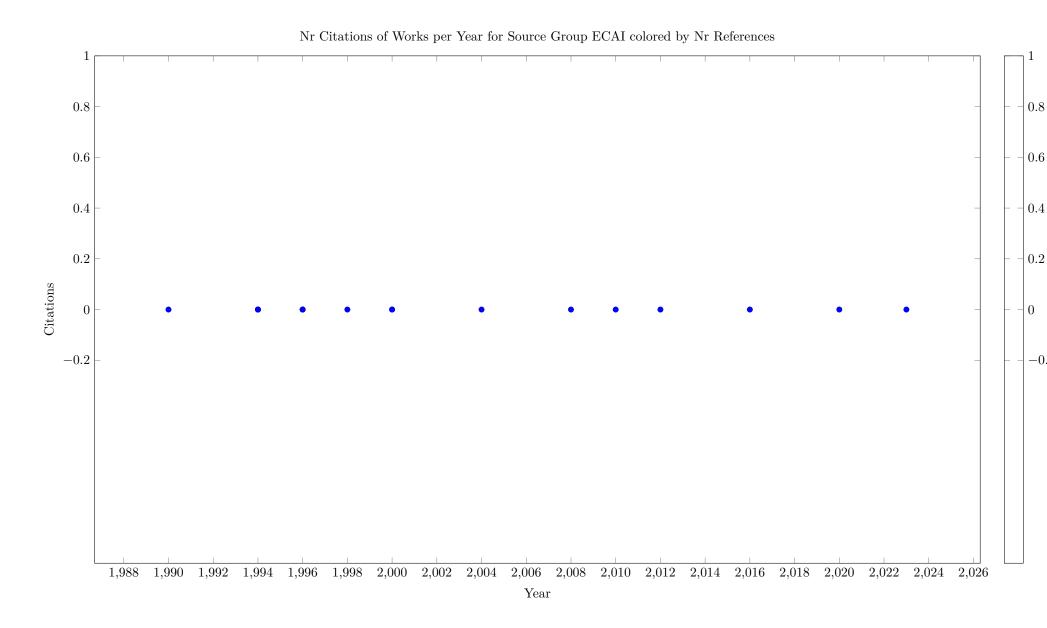


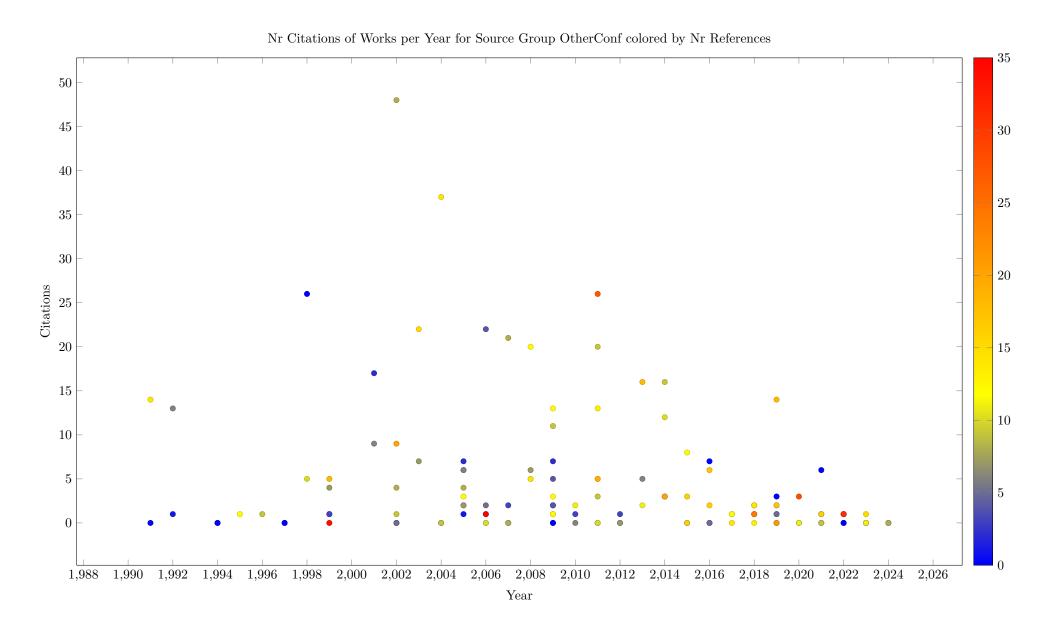


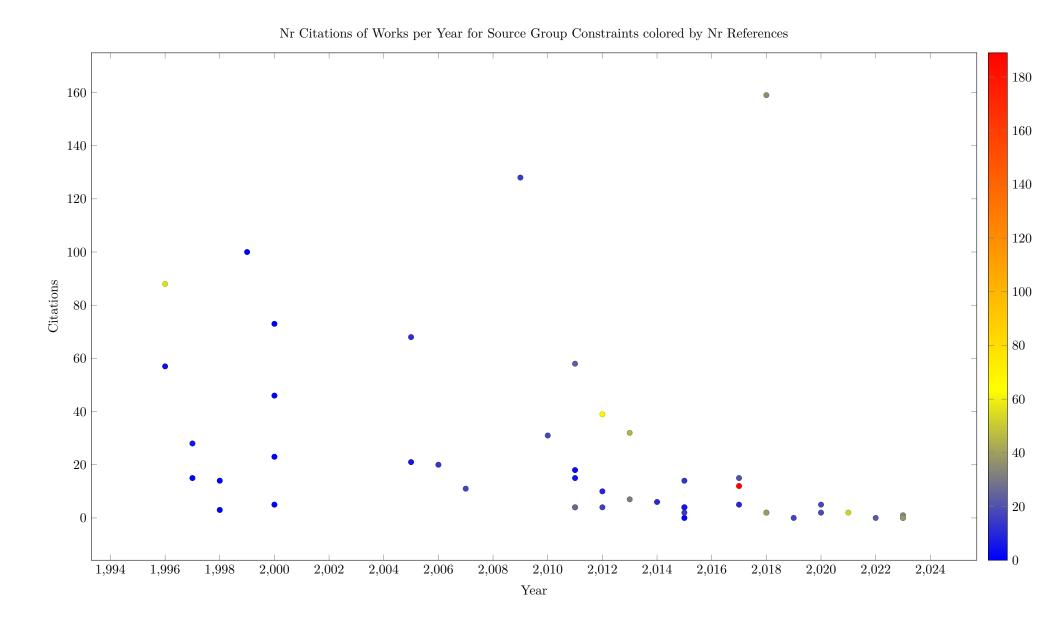


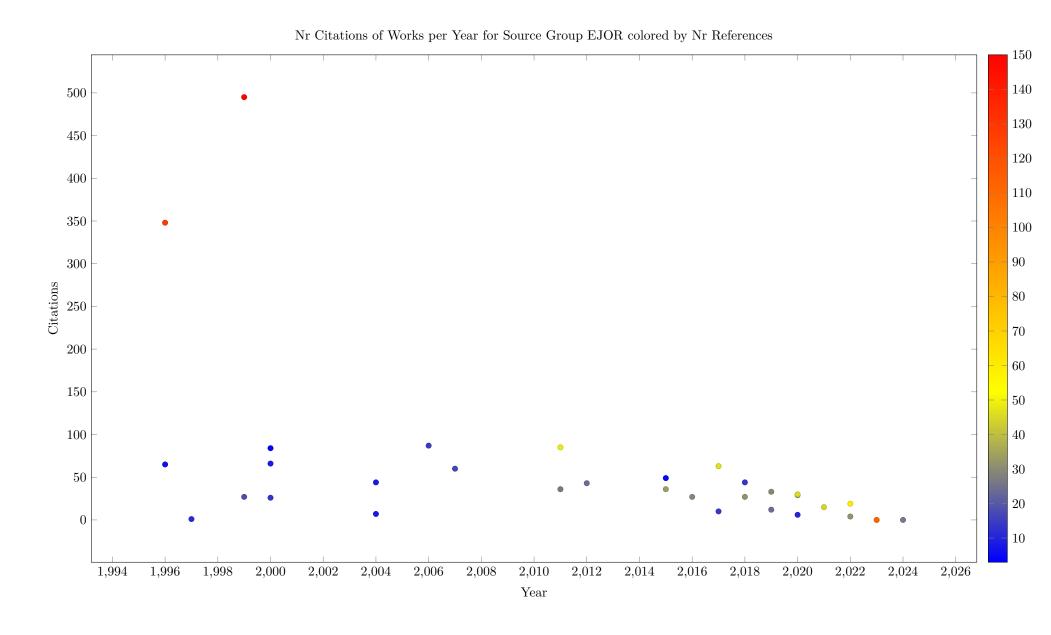


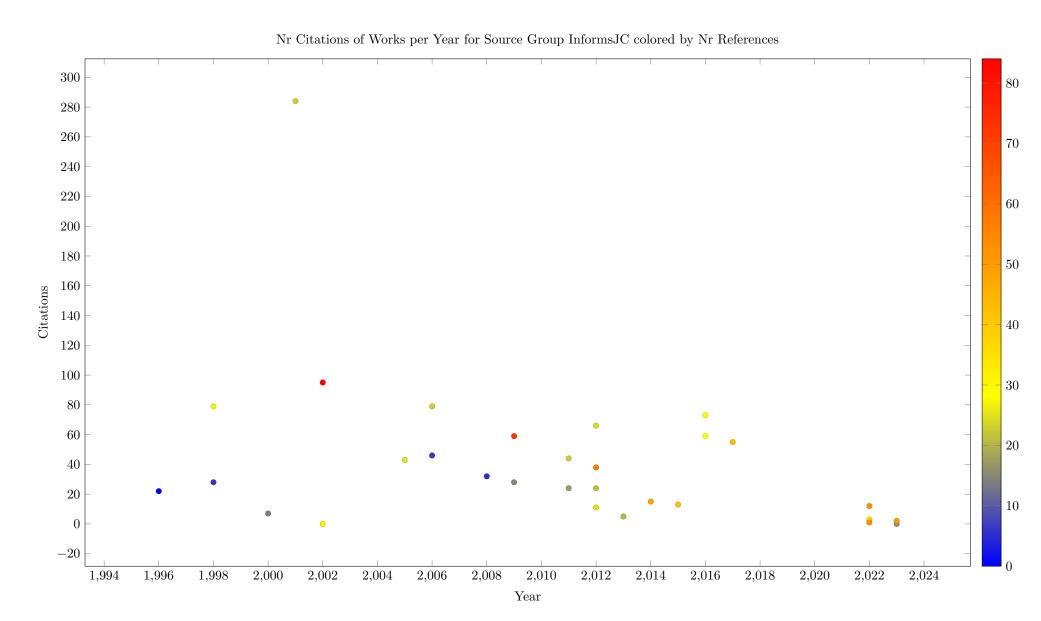


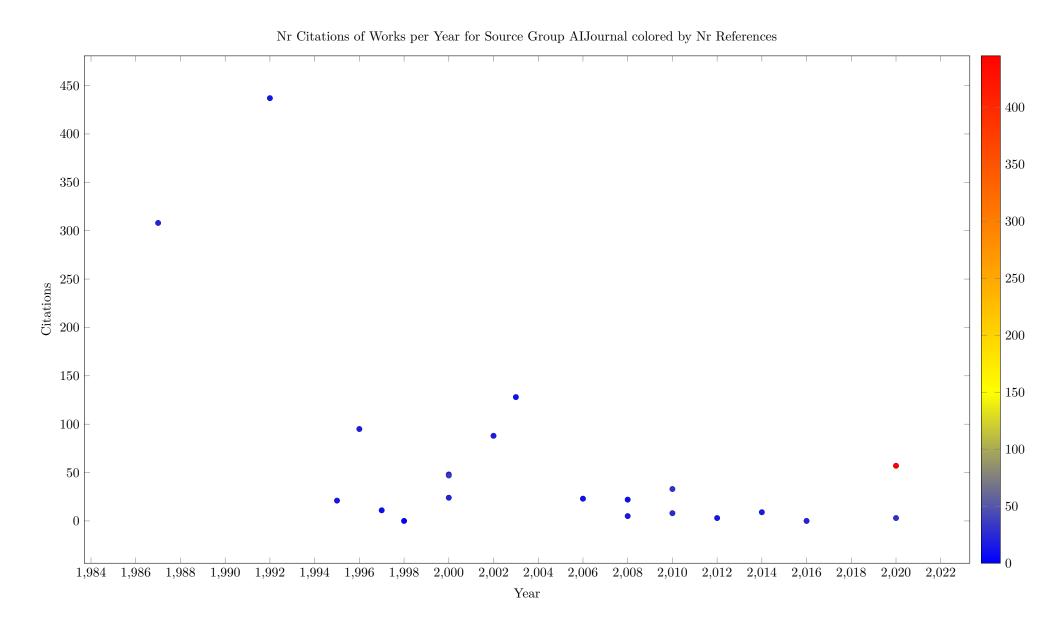


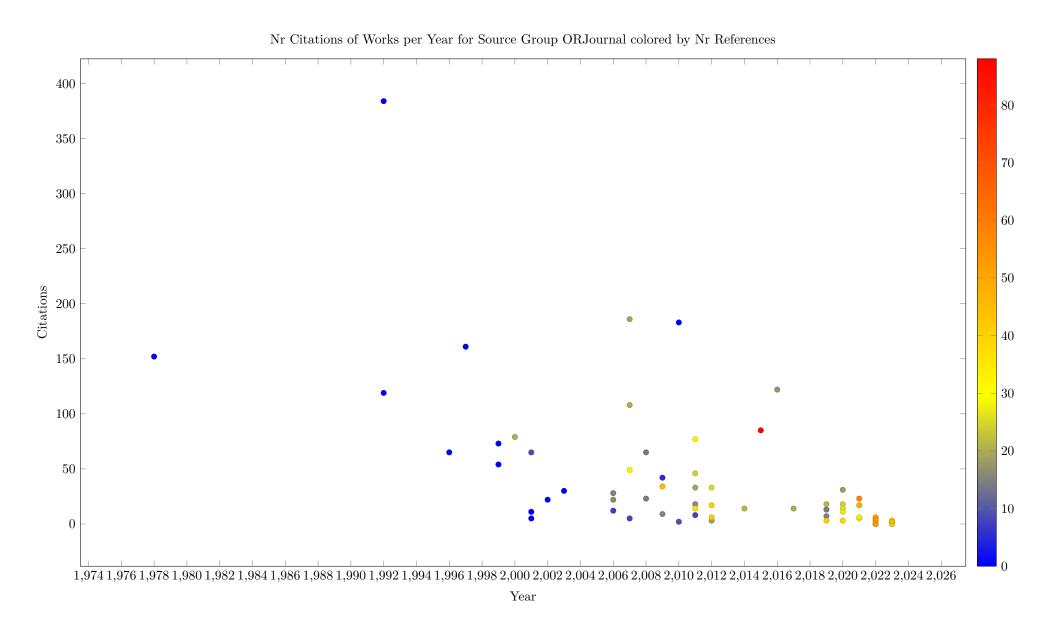


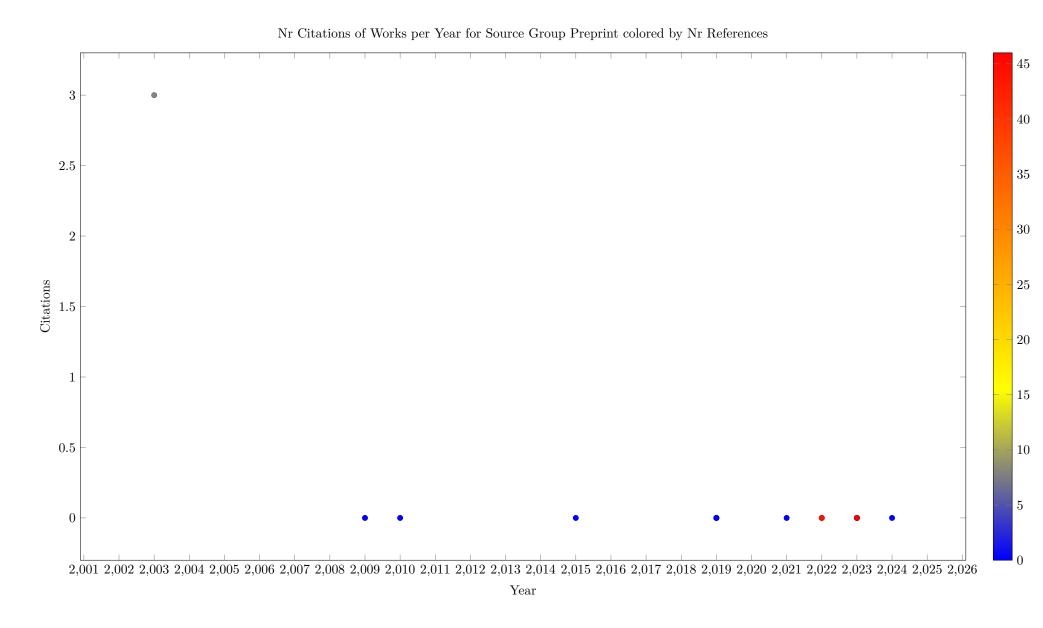


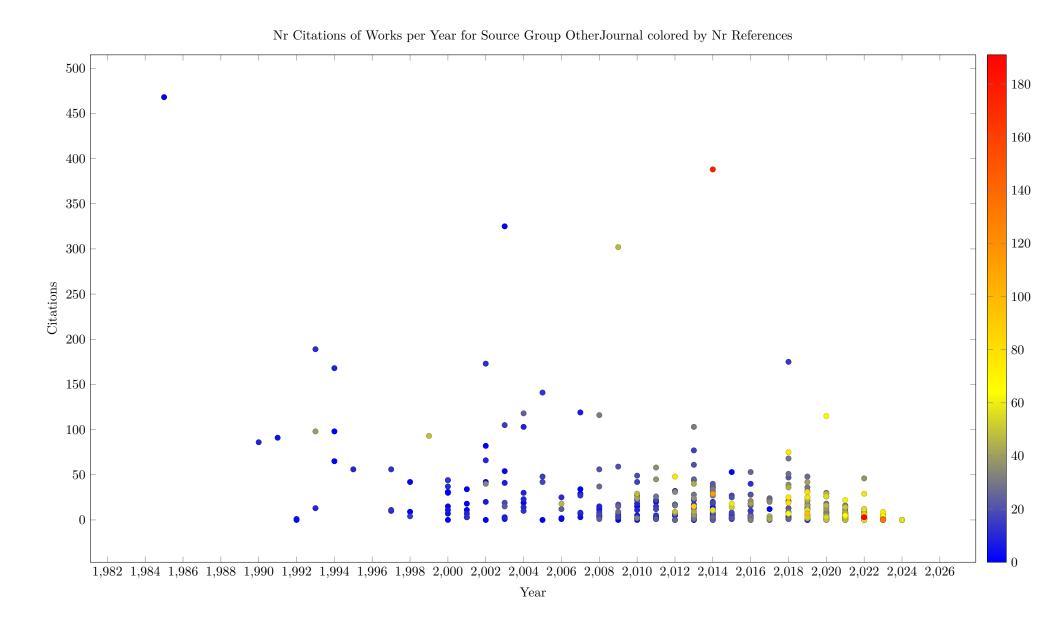


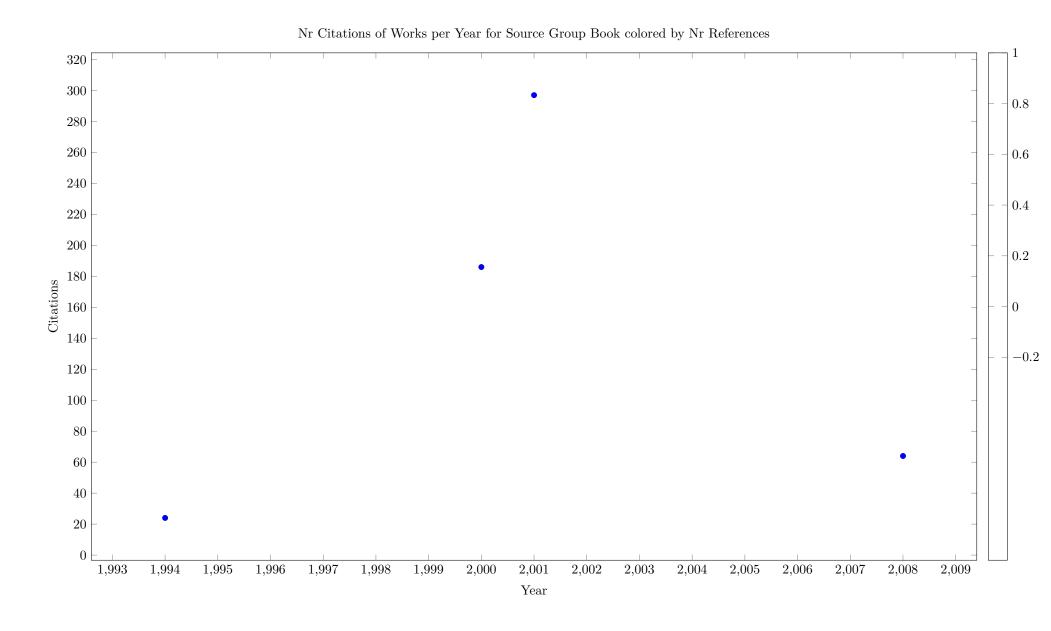


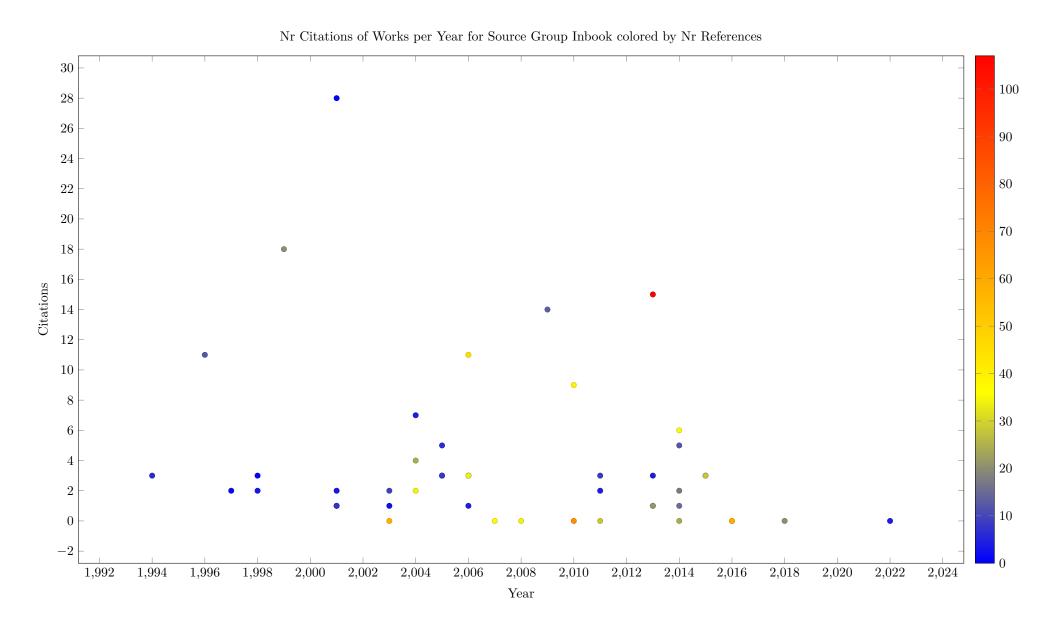


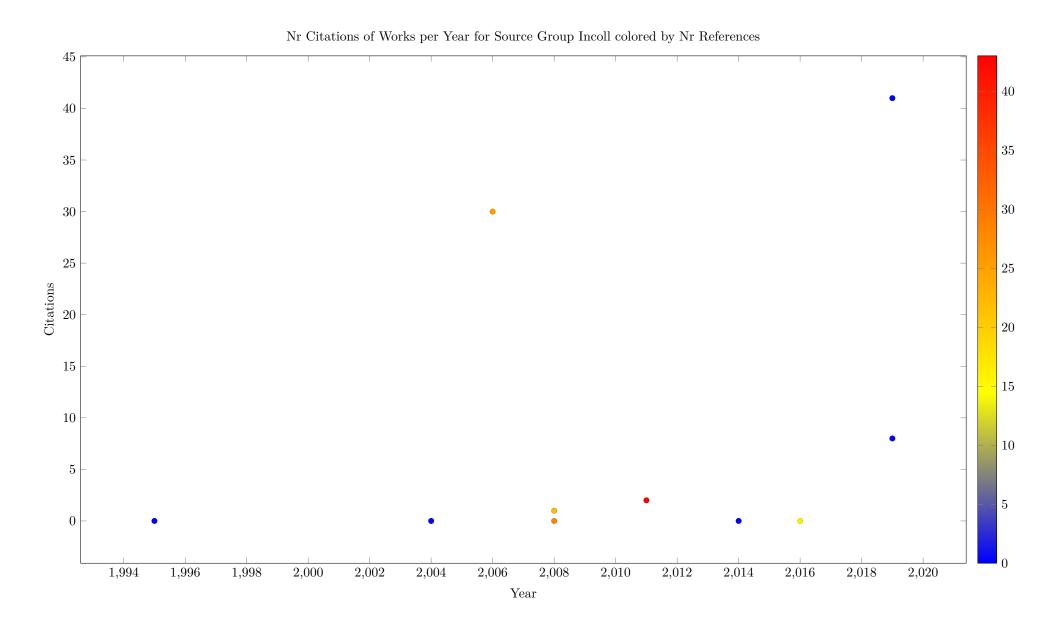


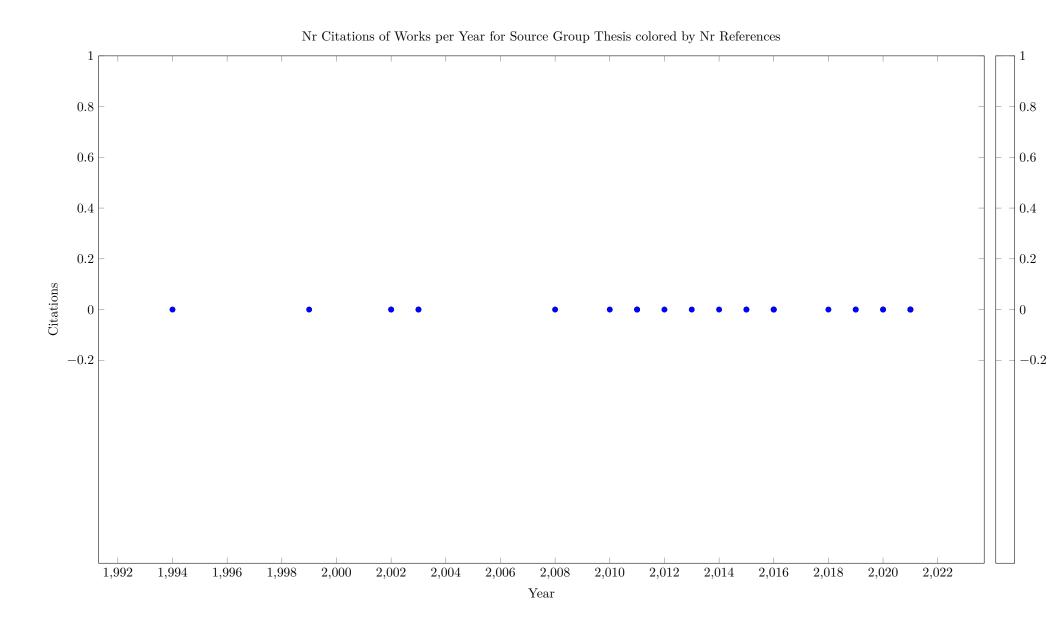












15.2 Reference Flows

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	Other Conf	Constraints	EJOR	${\rm InformsJC}$	AlJournal	ORJournal	Preprint	Other Journal	Book	${\rm Inbook}$	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.

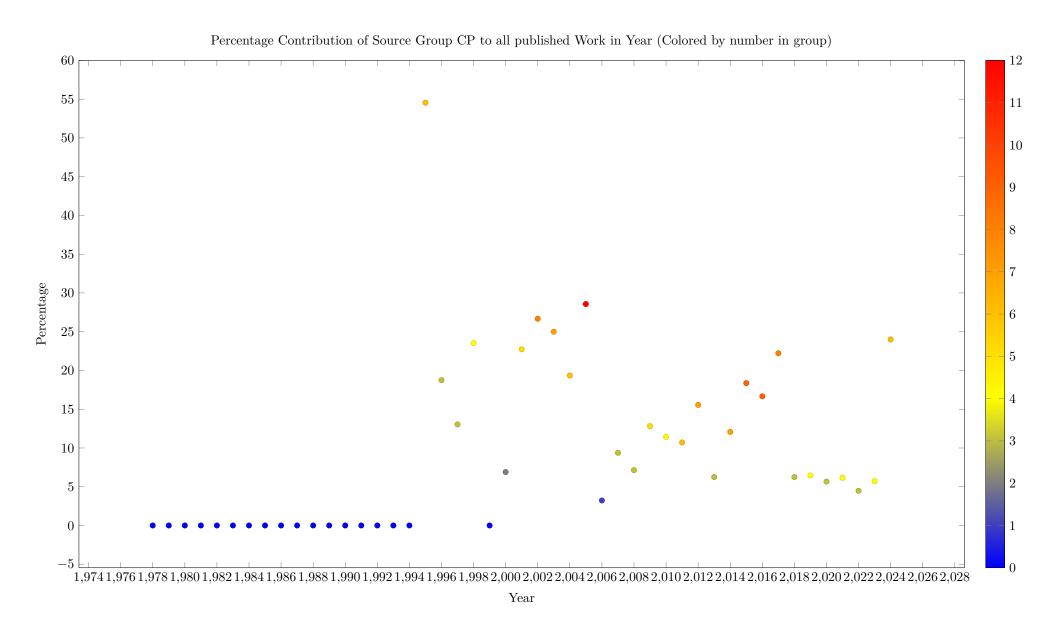
Note that the numbers are derived from the flows contained in the survey, which are based on the OpenCitation reference links. If such links are missing, or we are missing works in some group, then the results will be affected.

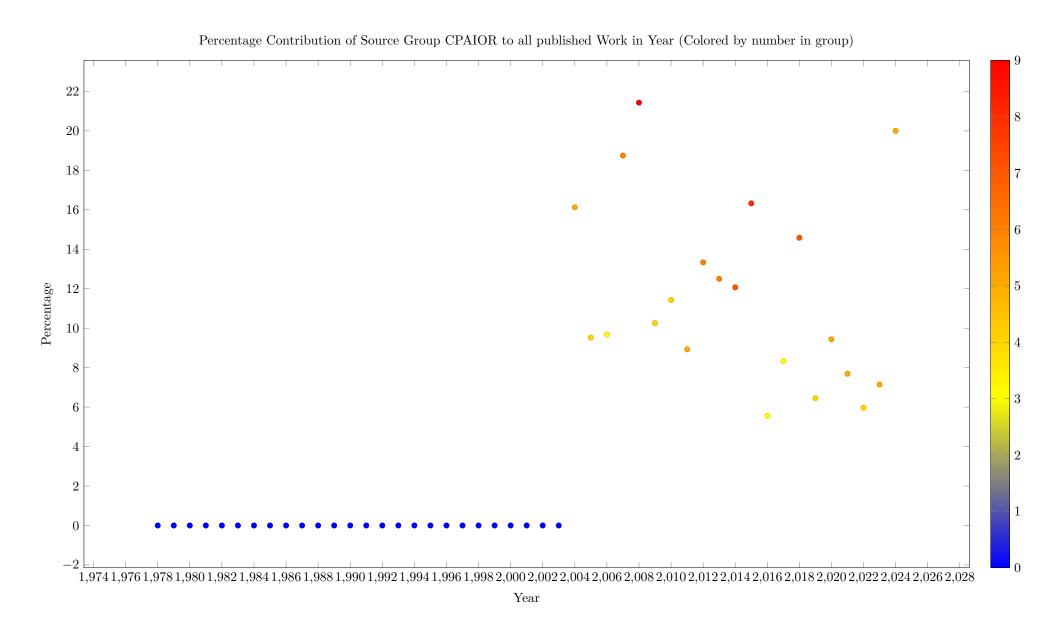
Table 15: Reference Flows Normalized																	
	Background	$^{\mathrm{CP}}$	CPAIOR	ICAPS	AAAI	IJCAI	OtherConf	Constraints	EJOR	${\rm InformsJC}$	AIJournal	ORJournal	Preprint	Other Journal	Book	Inbook	Incoll
Background	3.68	0.25	0.06				0.02	0.59	0.58	1.58	0.22	0.85		0.18	3.49	0.20	
CP	2.06	0.59	0.44	0.06	0.01	0.02	0.06	0.60	0.13	0.61	0.58	0.20		0.14	4.56	0.07	0.27
CPAIOR	2.11	0.70	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	0.21	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	0.85	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	0.06	0.03					0.66	2.05	1.92	0.89	0.83		0.34		0.20	0.31
InformsJC	5.25	0.48	0.36					1.30	2.02	2.91	0.61	0.95		0.34	12.90	0.14	0.32
AlJournal	3.65	0.32	0.18	0.21			0.28	0.51	1.34	0.77	3.63	0.28		0.50		0.21	
ORJournal	3.45	0.41	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	0.14	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	0.29	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	

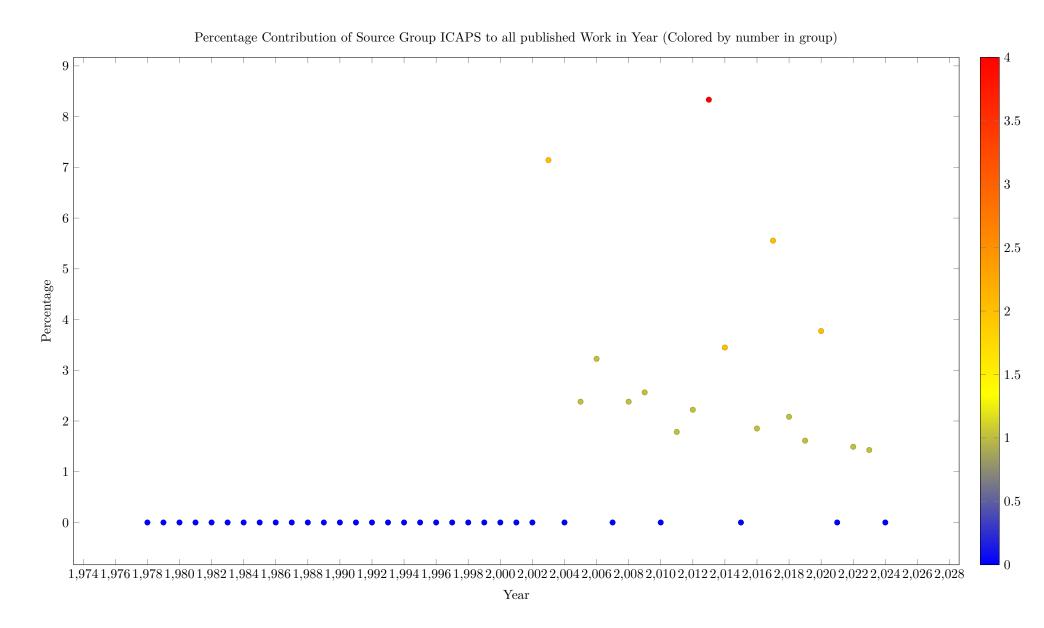
16 Contribution of Source Group to Total Works per Year

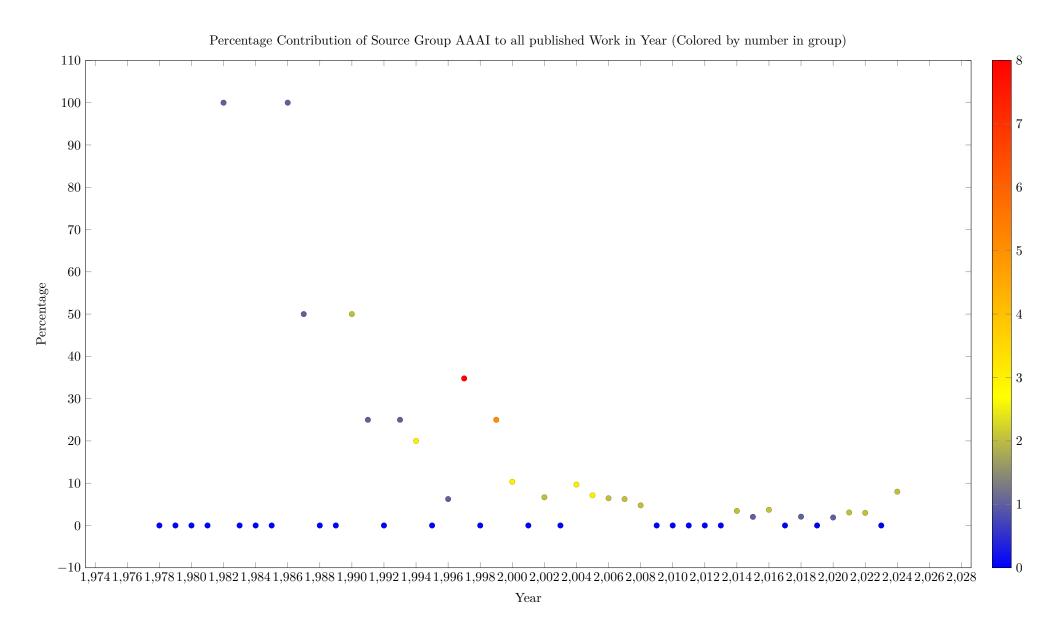
The following plots show the percentage of works published in a year belonging to a specific source group. This plot helps to understand how important that group is to the field over time

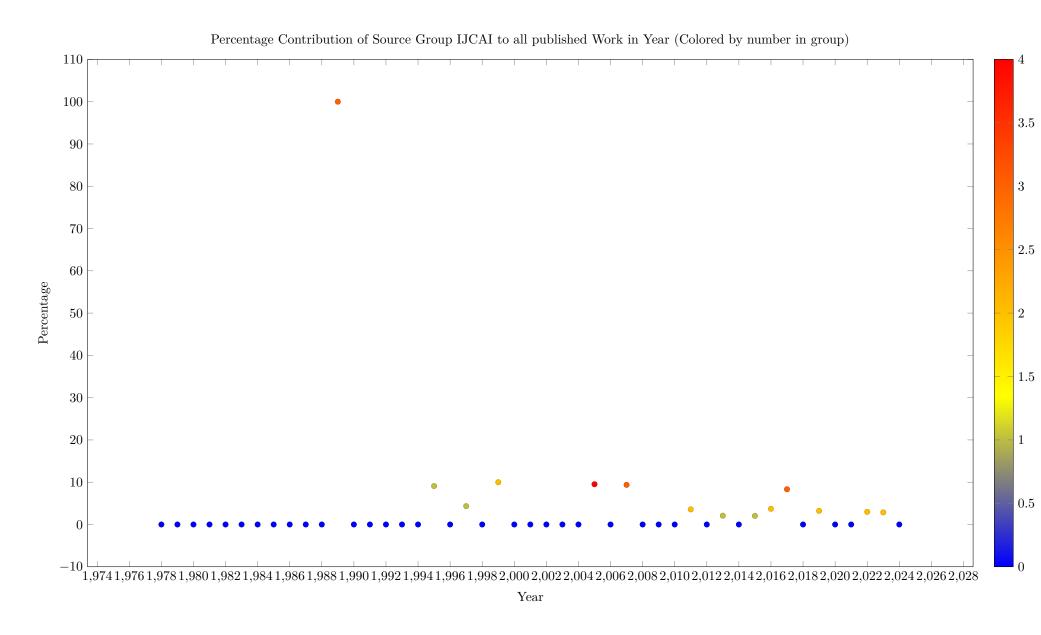
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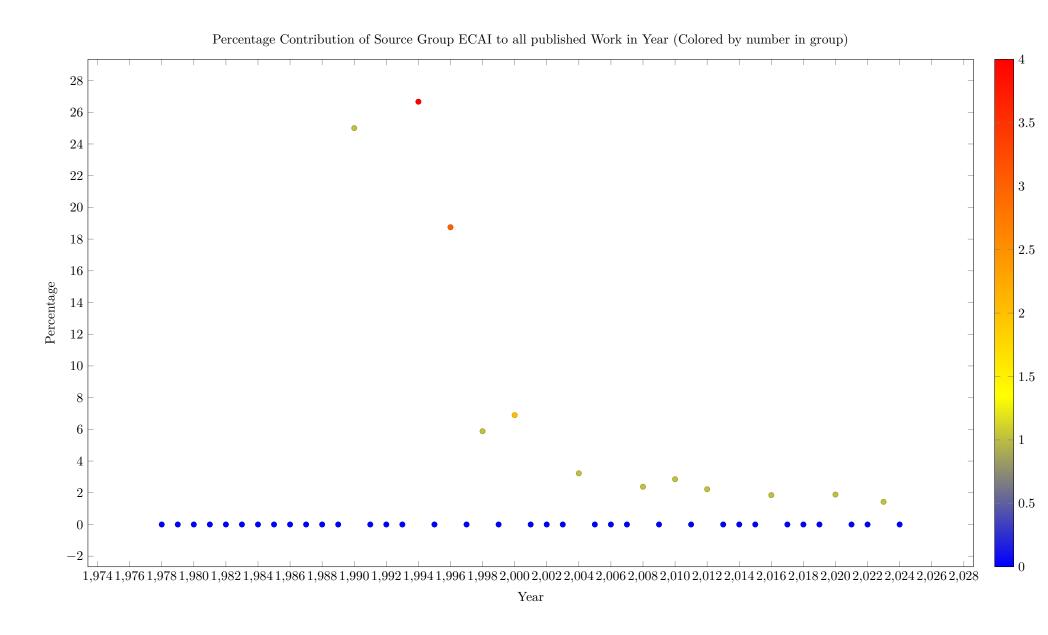


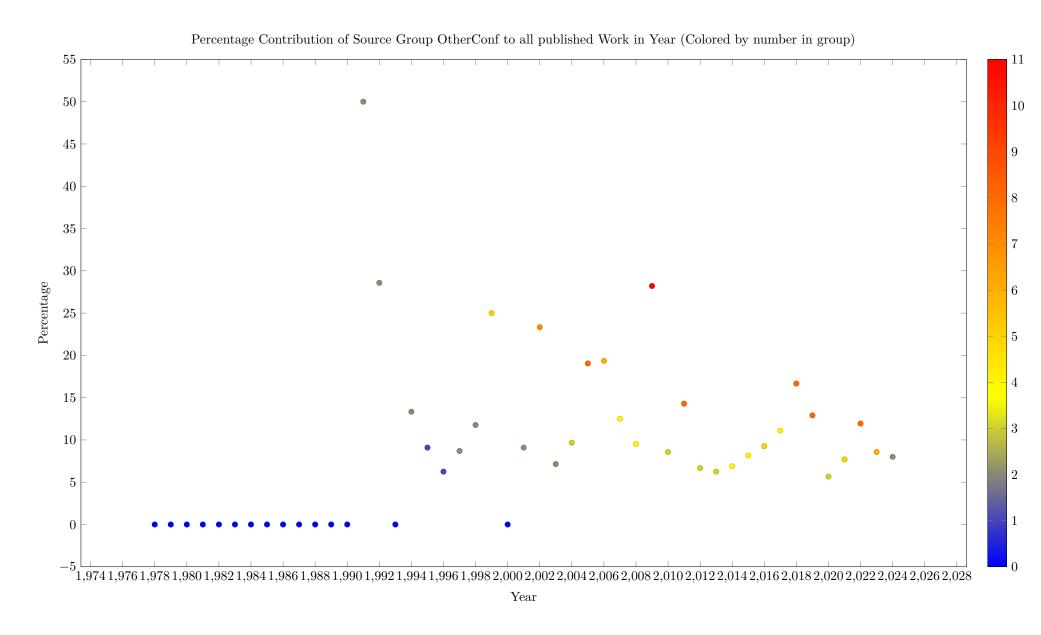


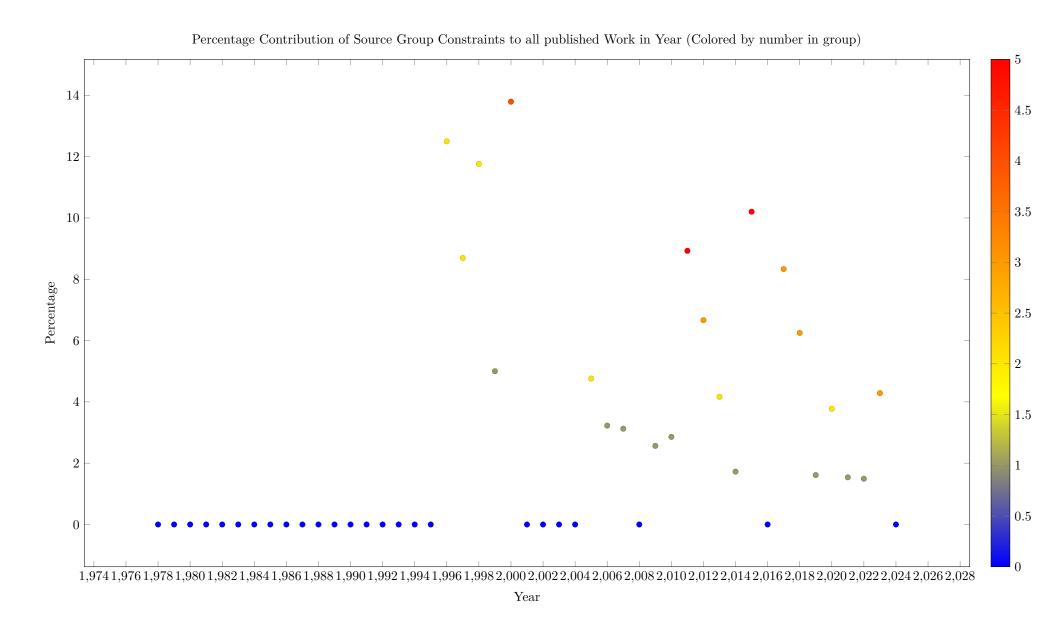


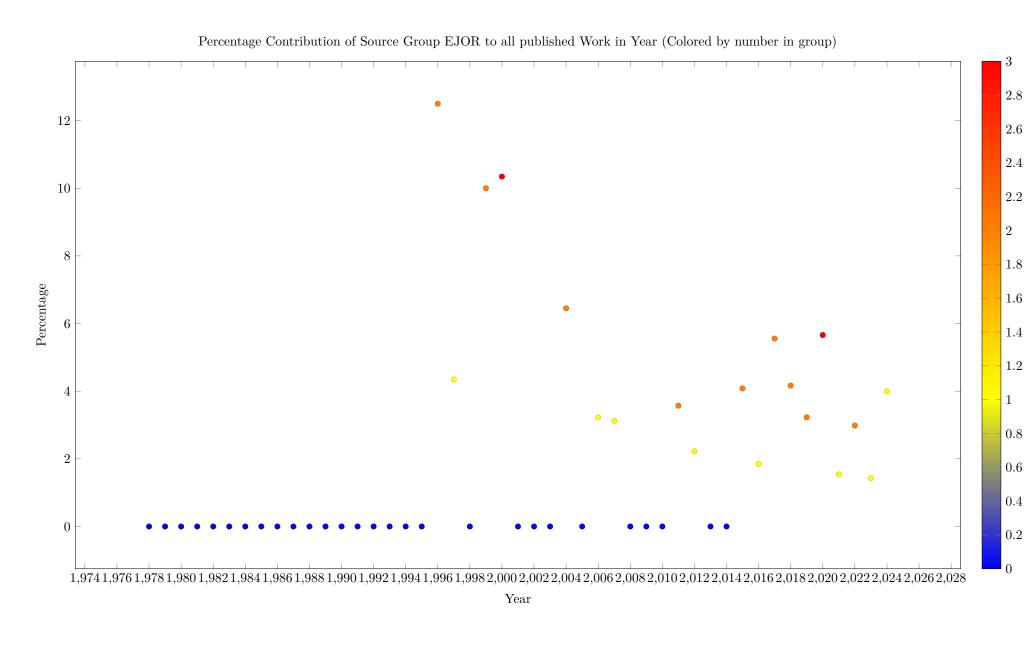


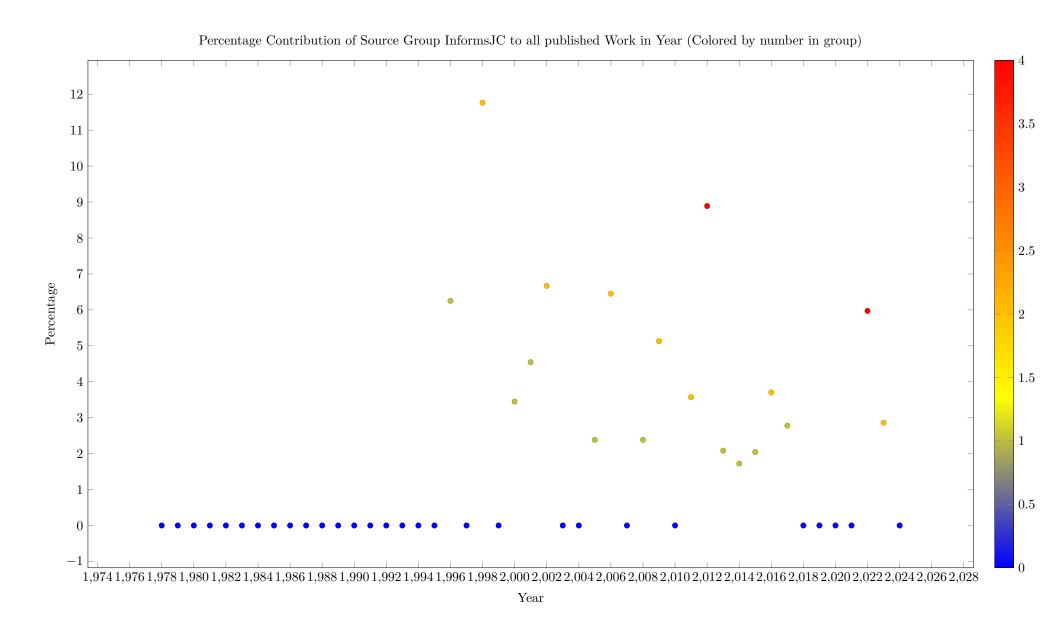


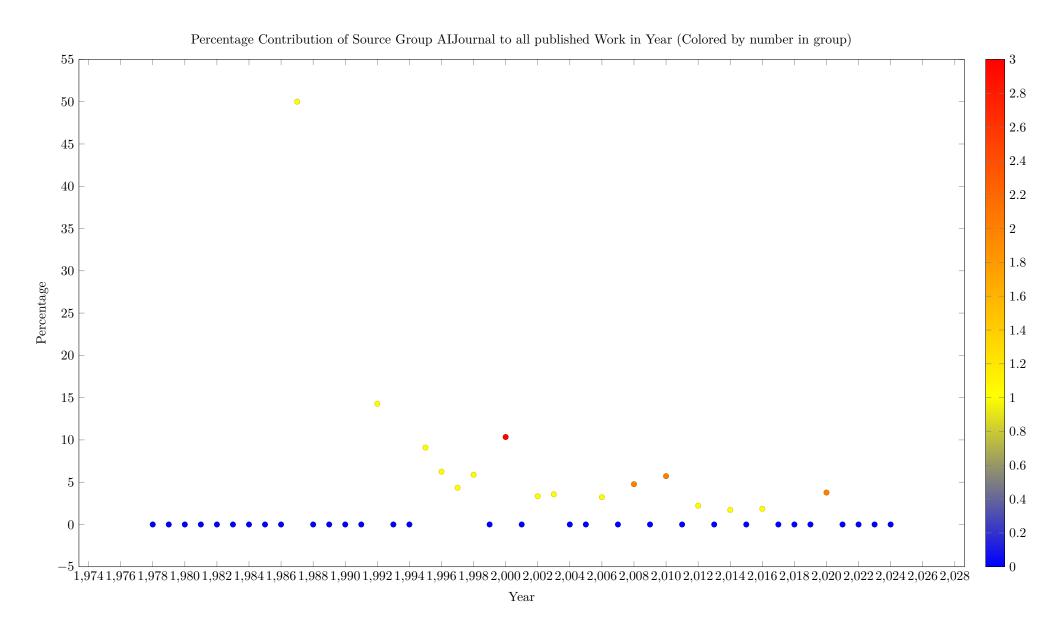


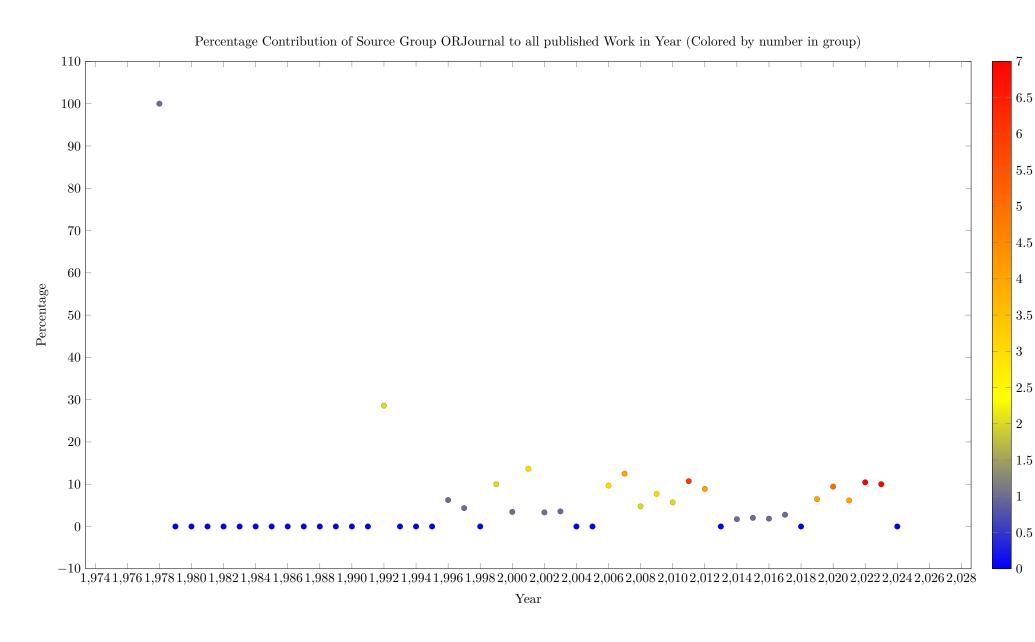


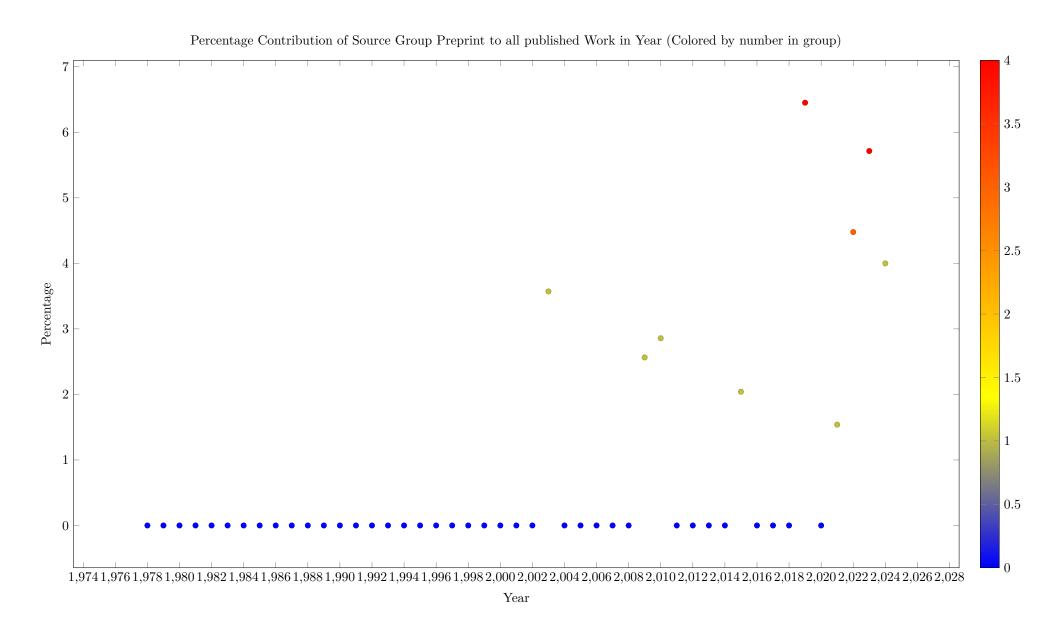


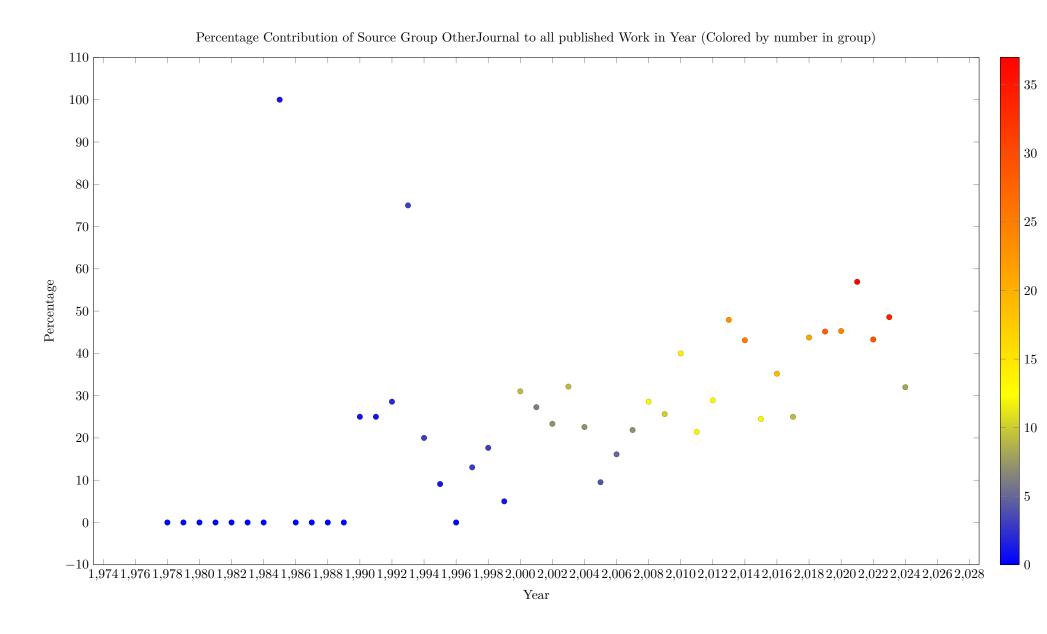


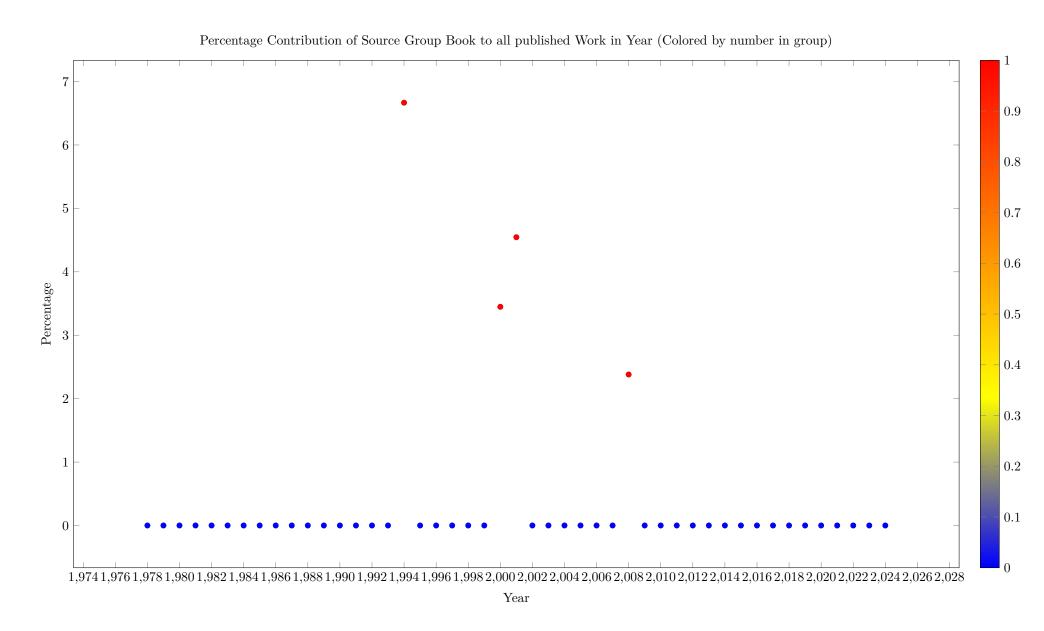


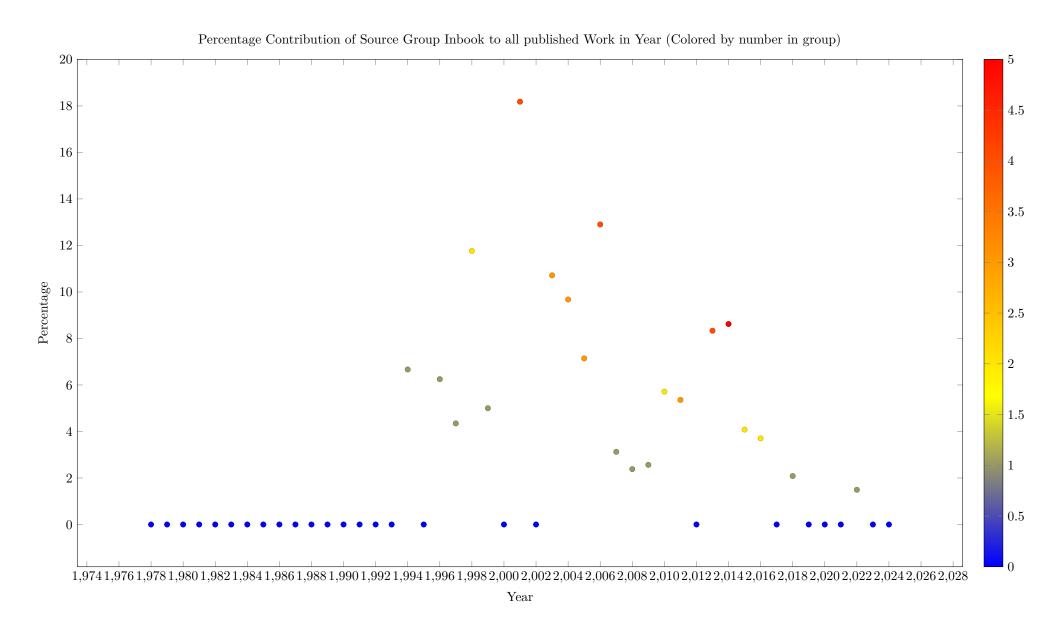


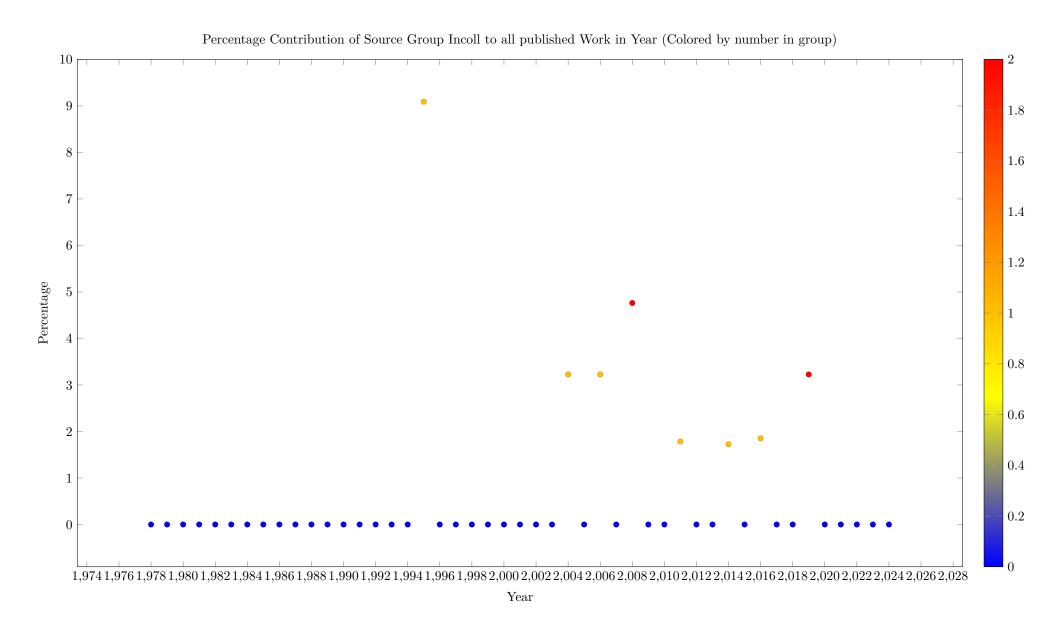


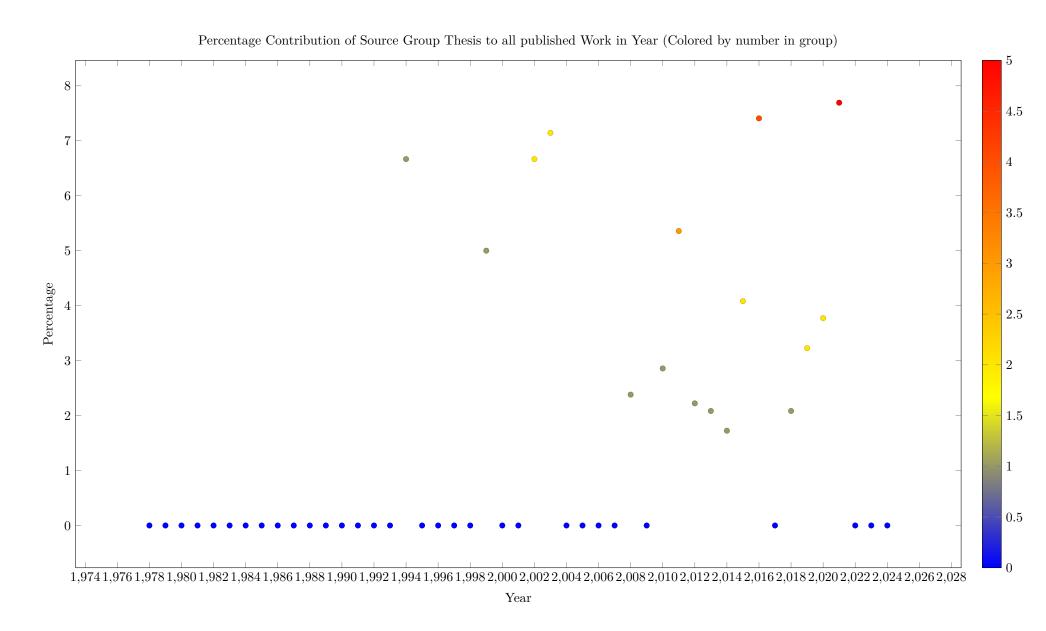




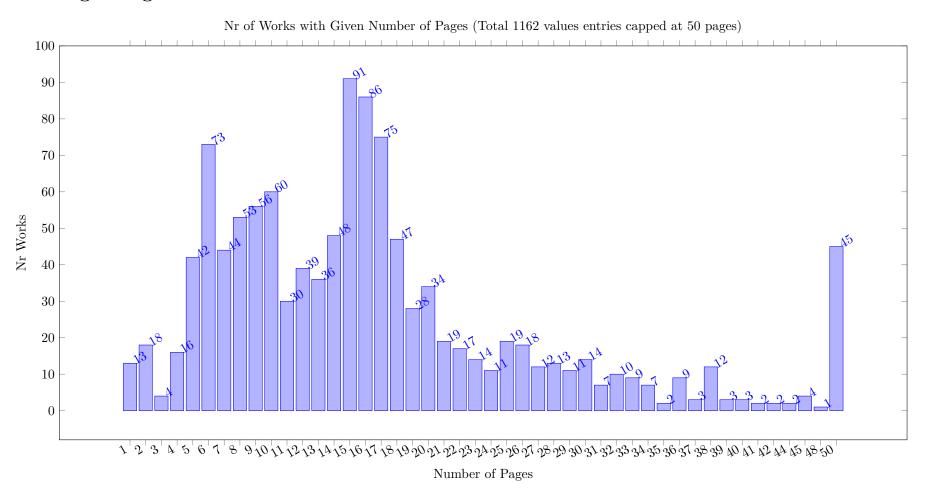






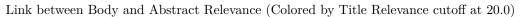


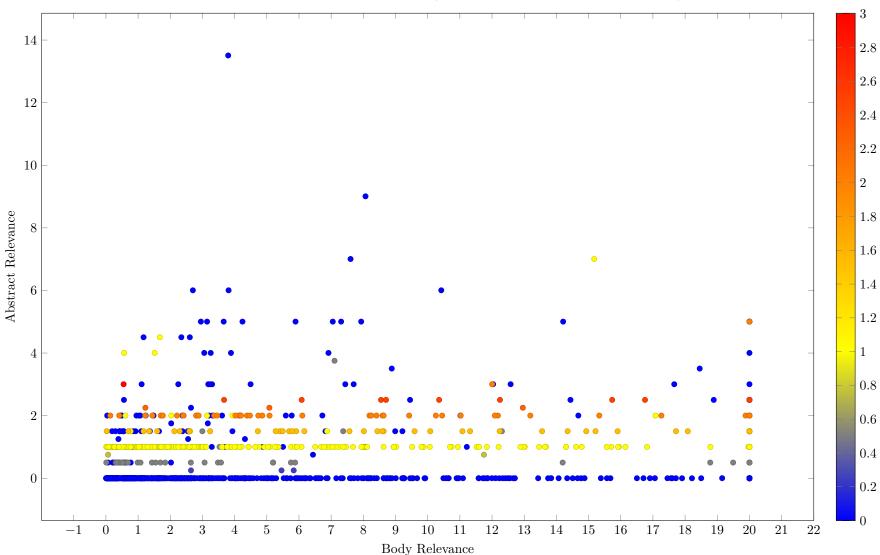
17 Page Length Distribution

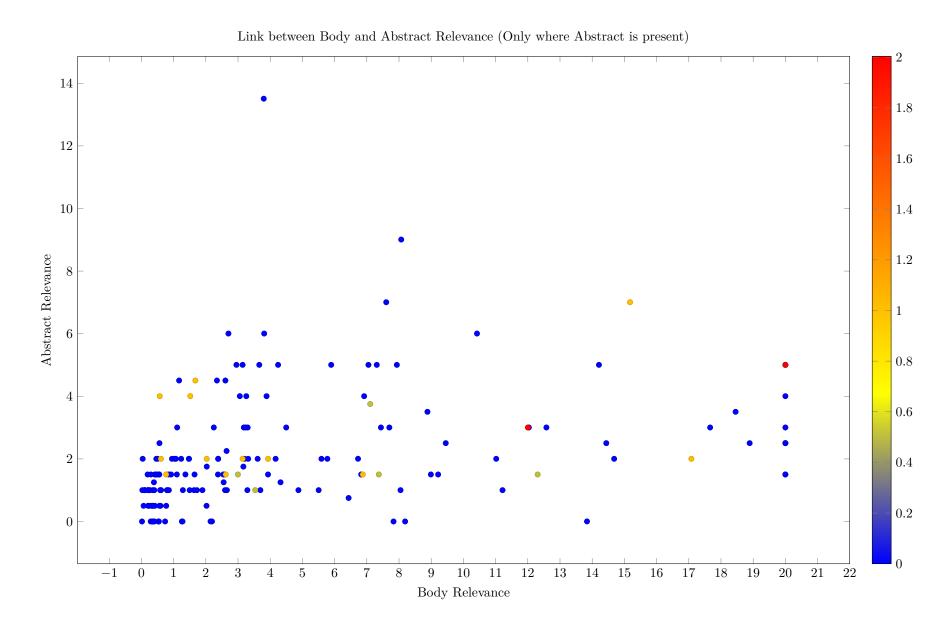


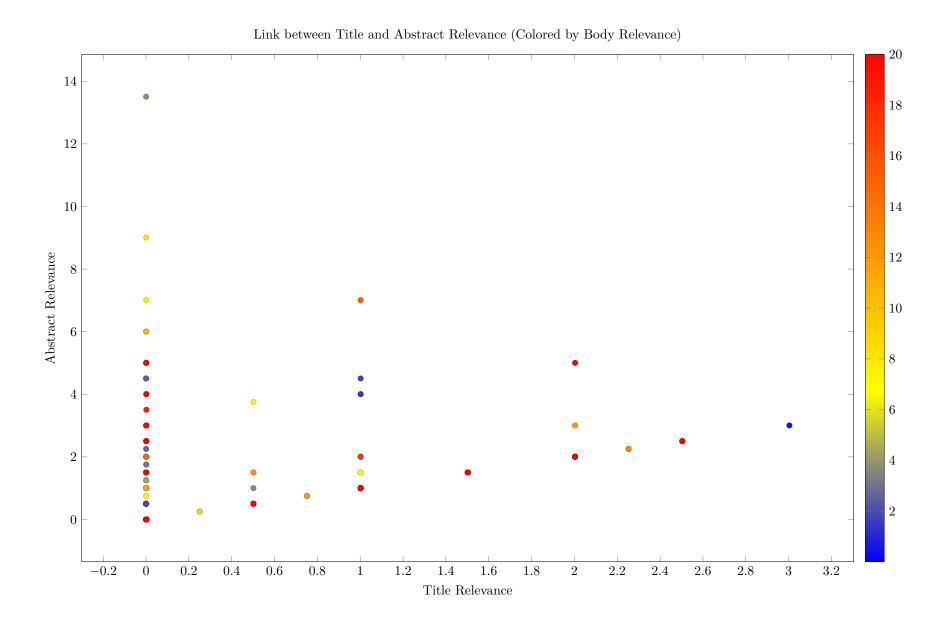
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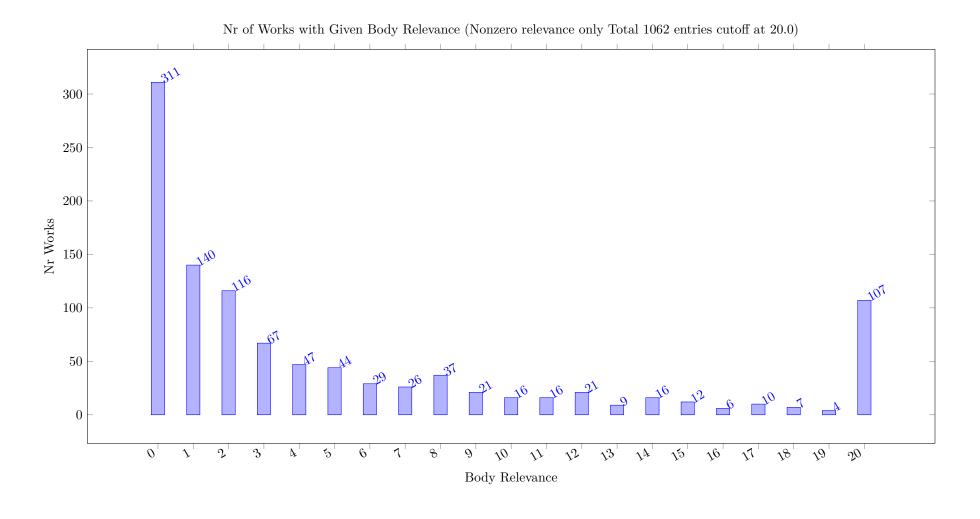
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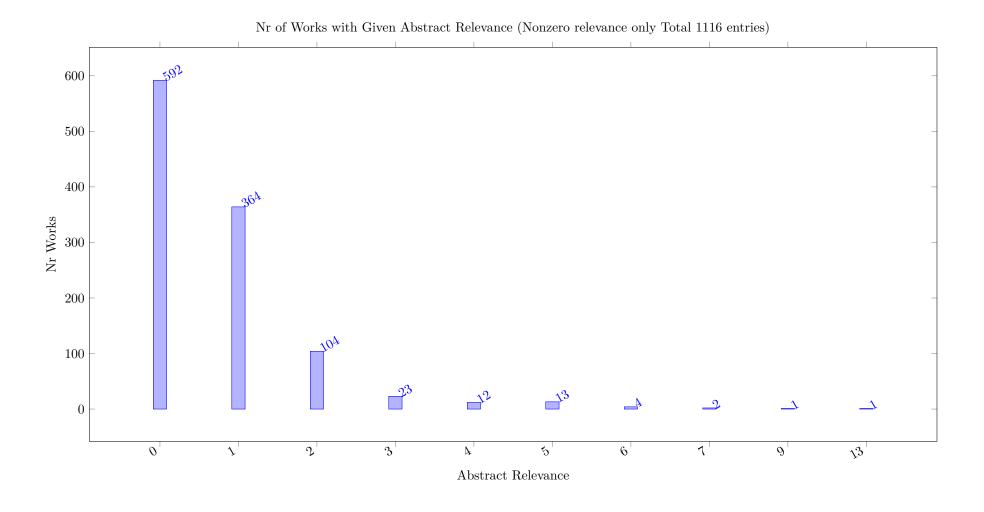


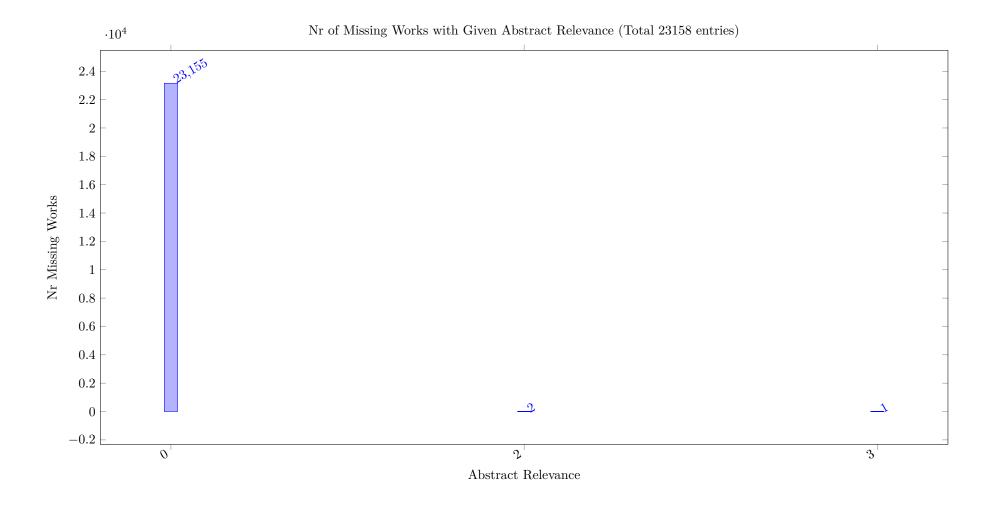


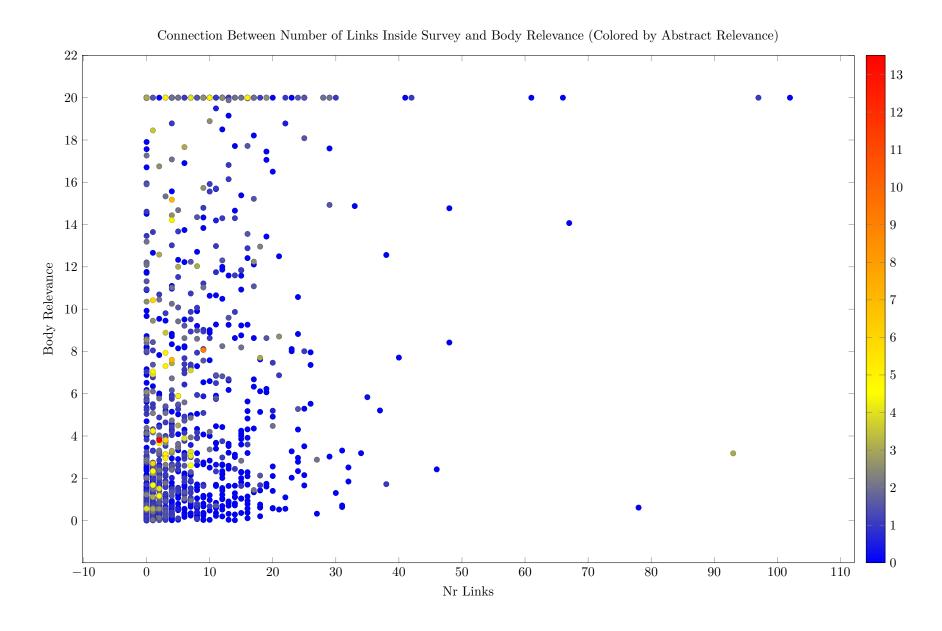


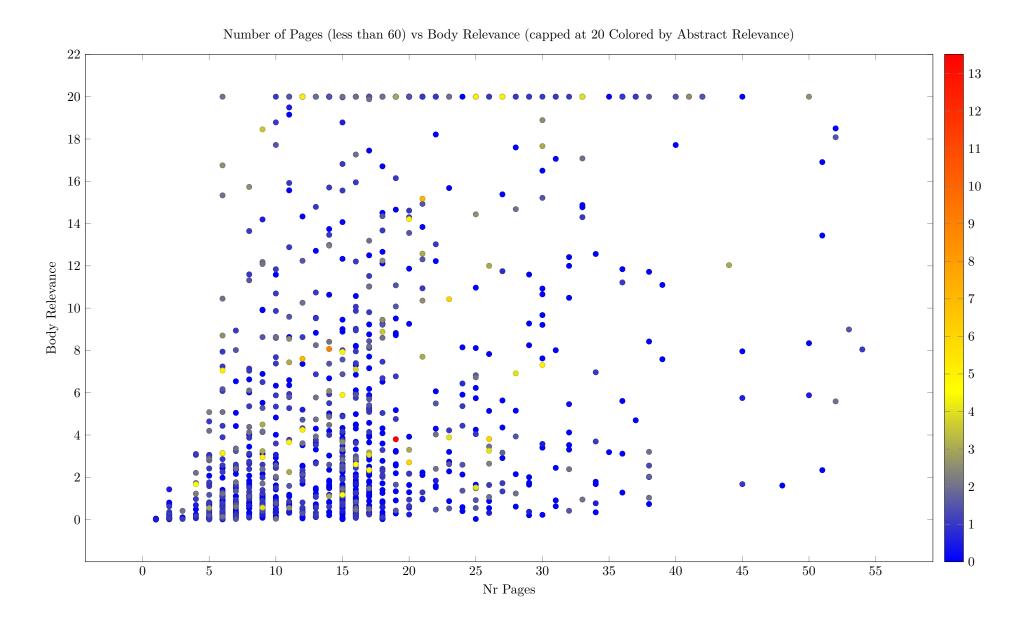






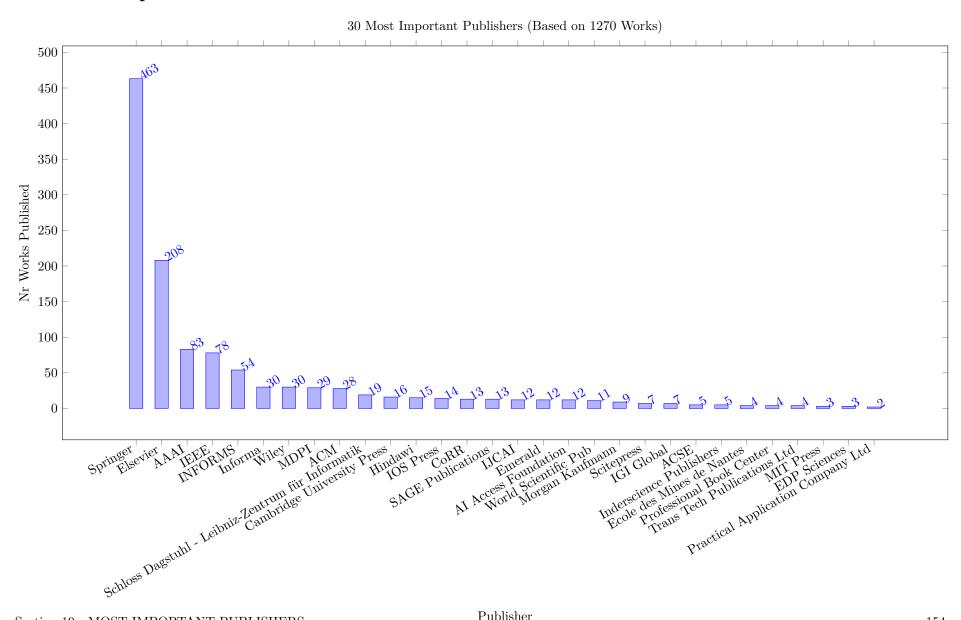


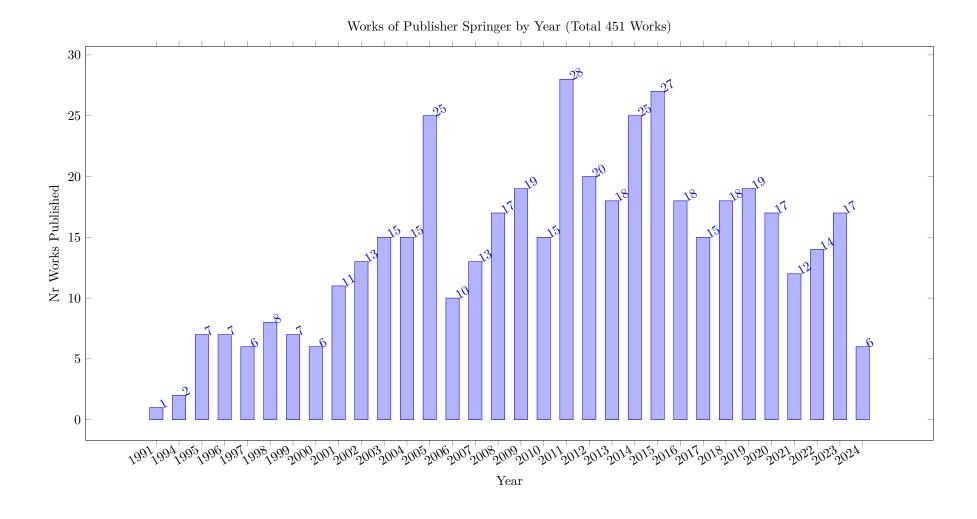


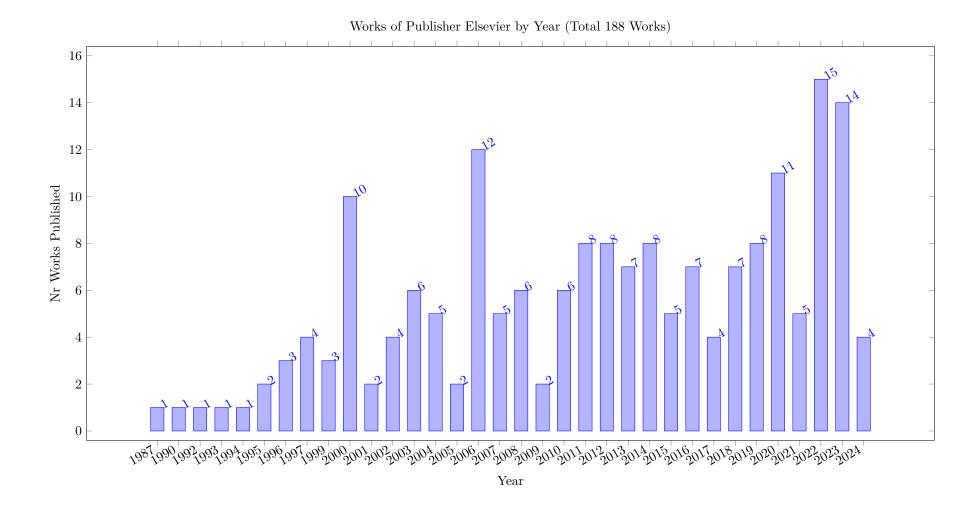


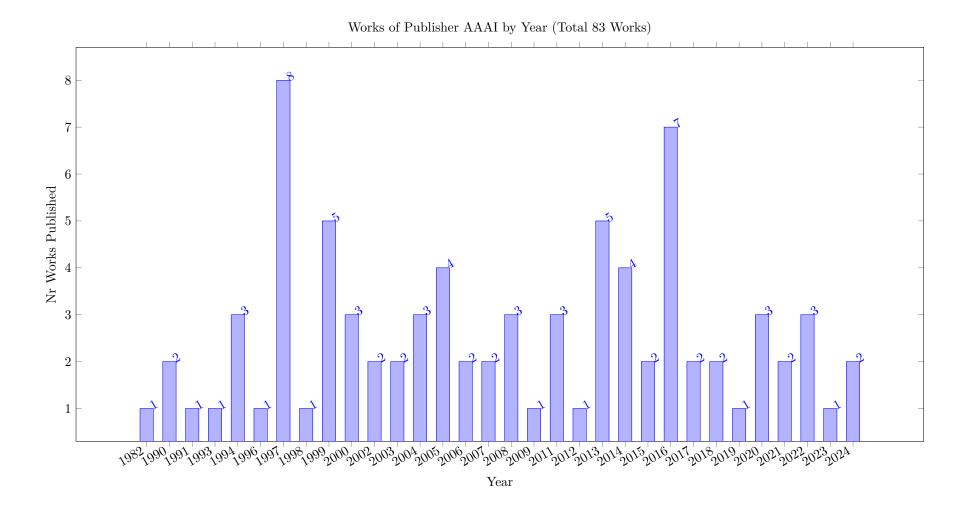
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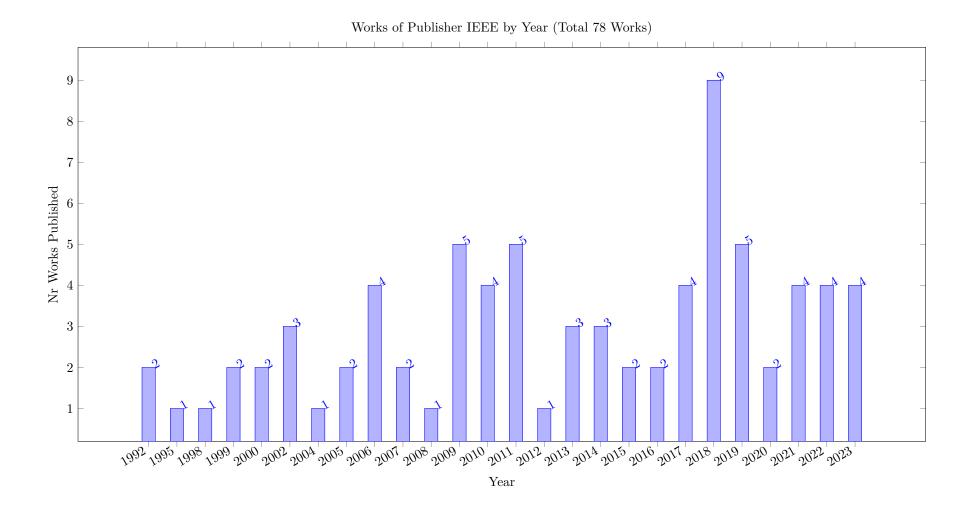
Most Important Publishers

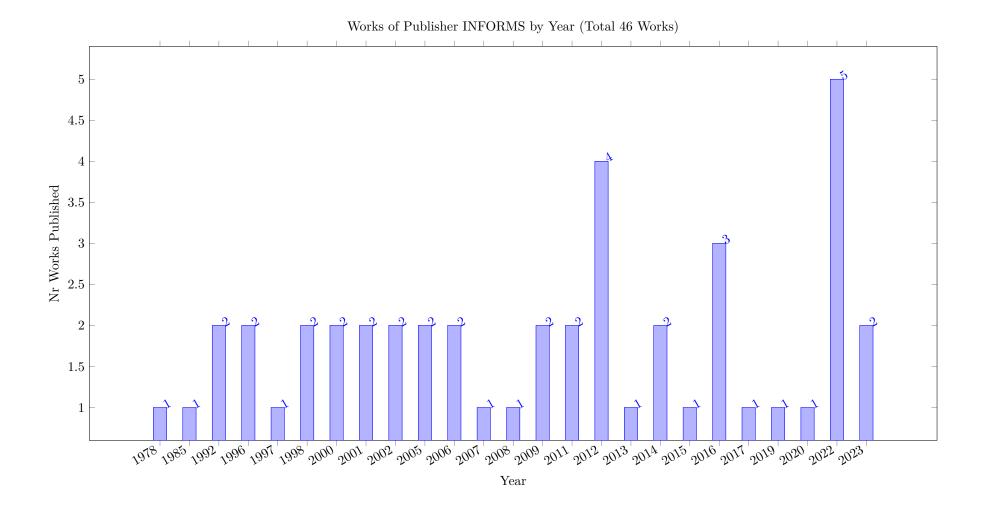


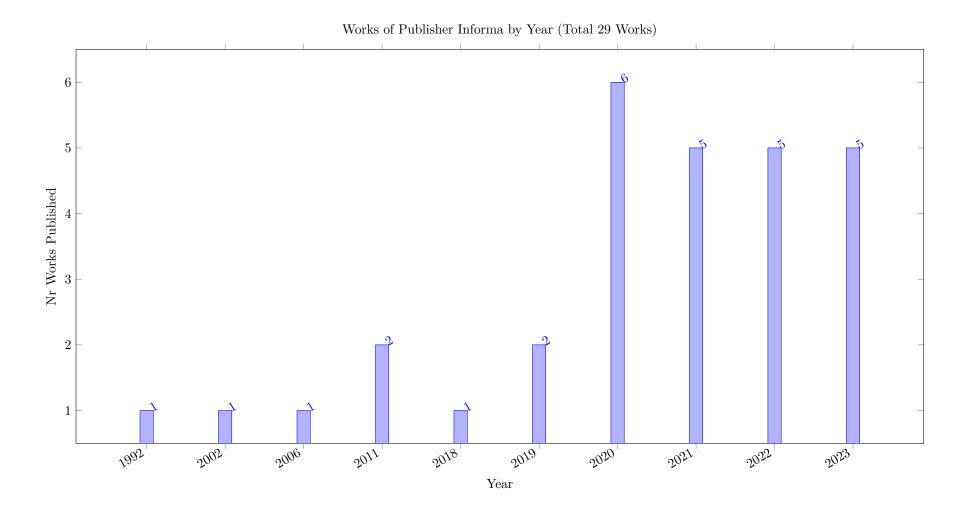


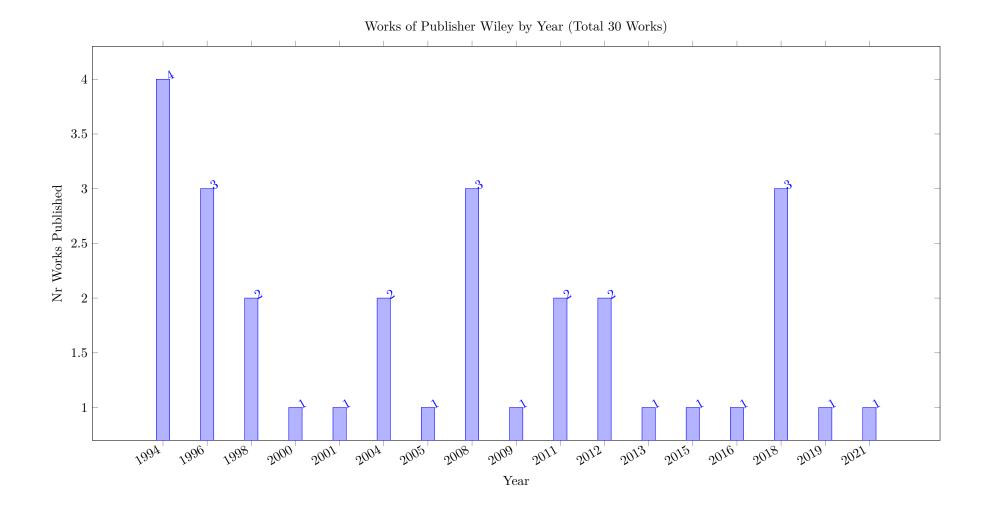


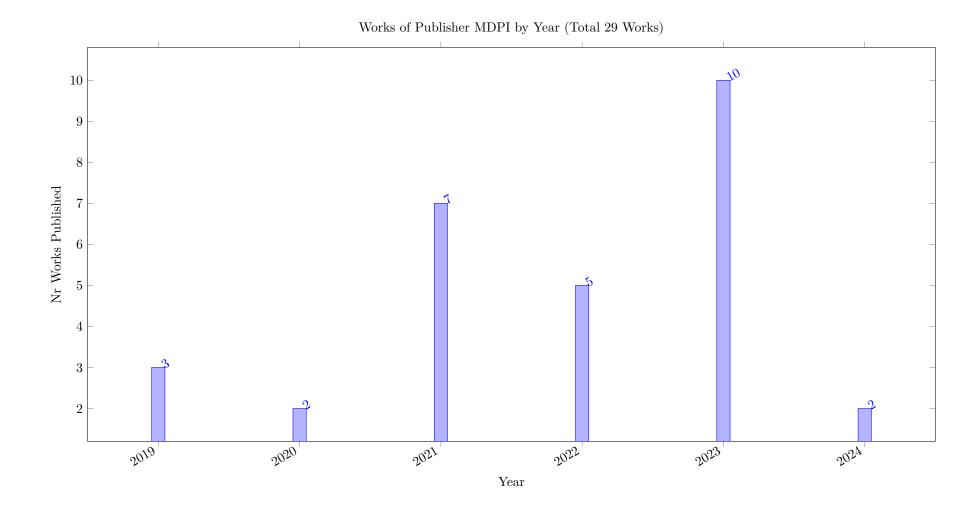


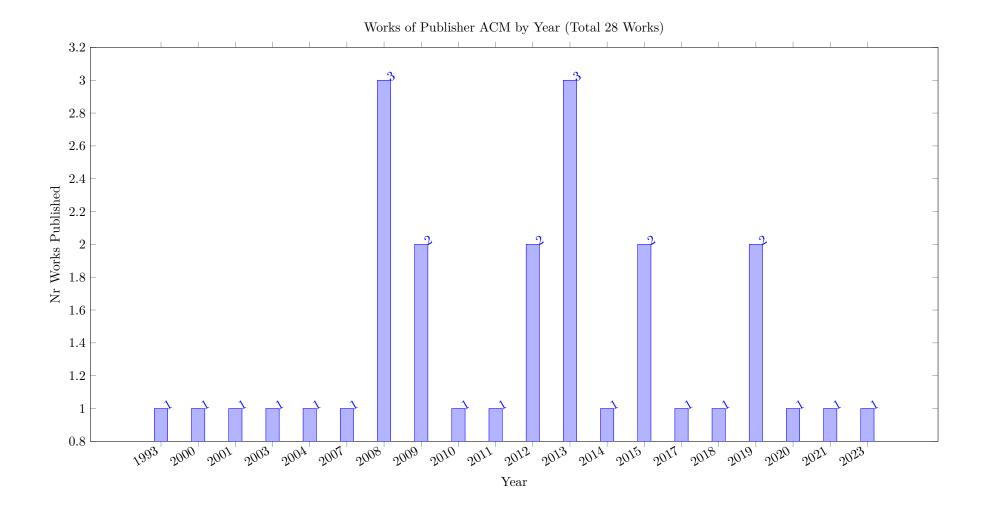


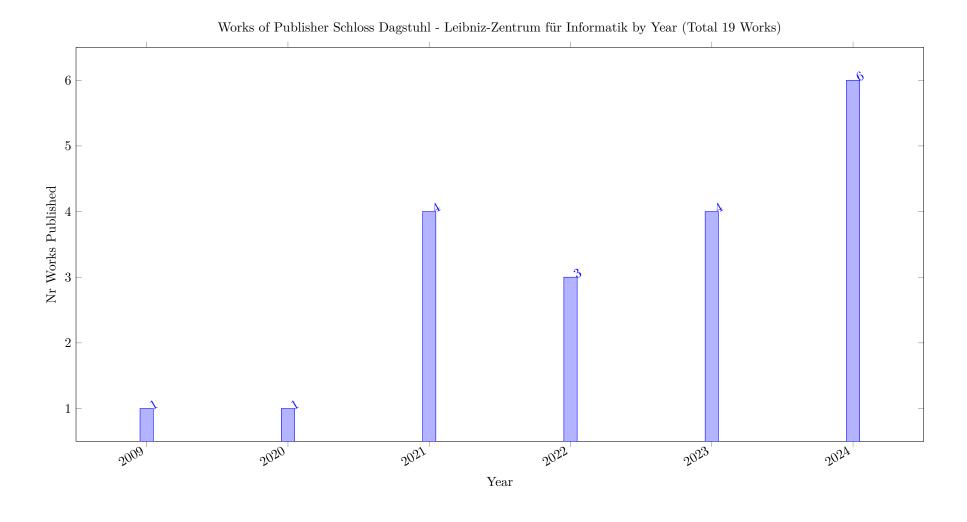


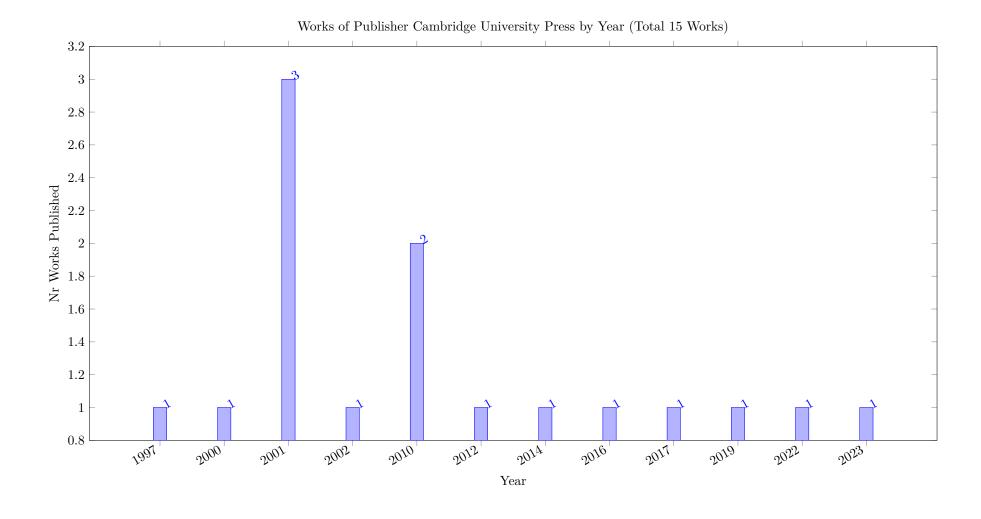


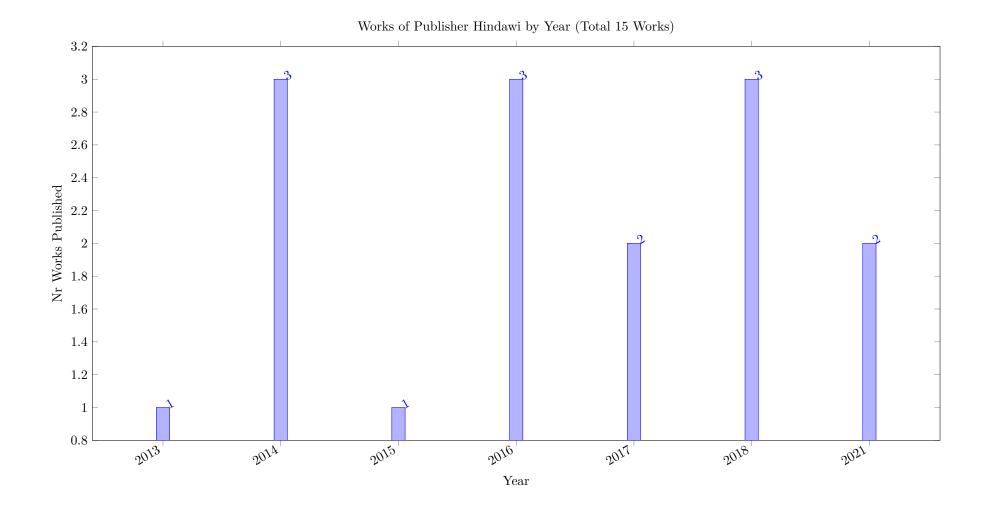


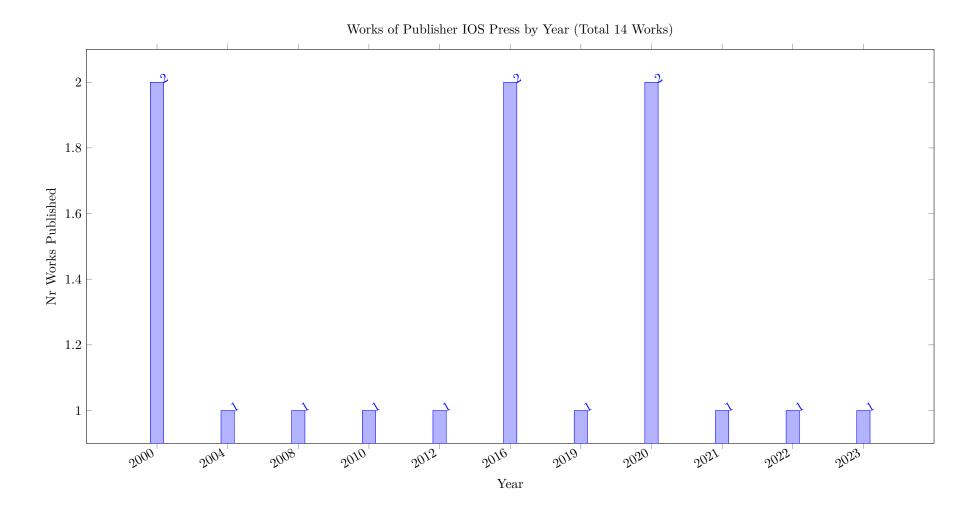


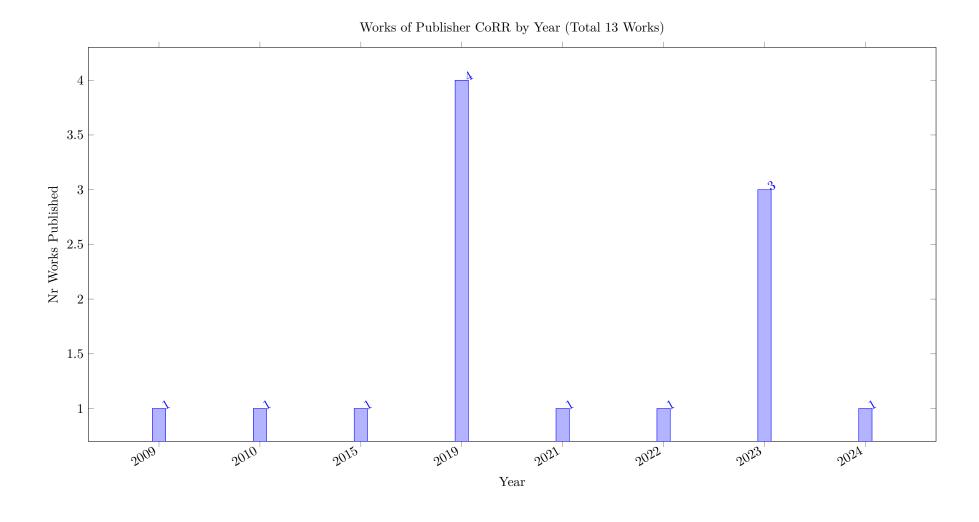


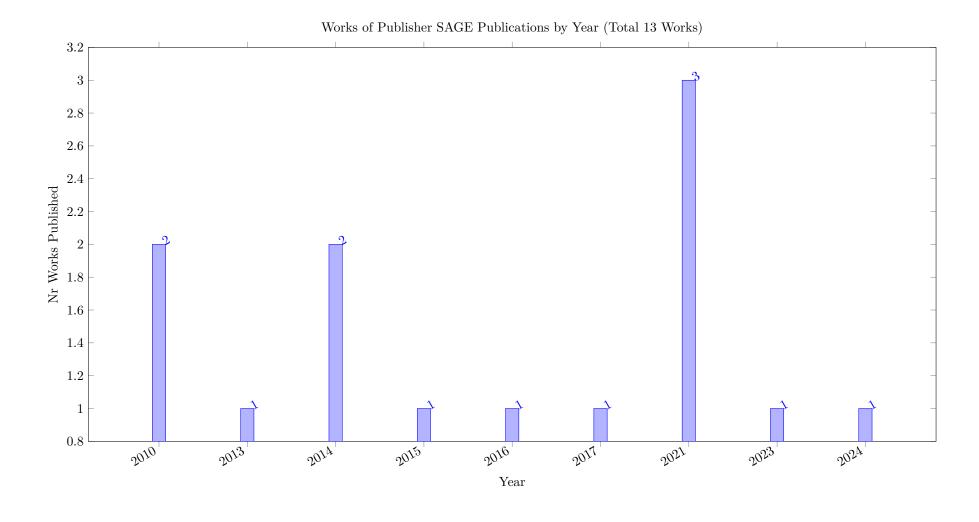


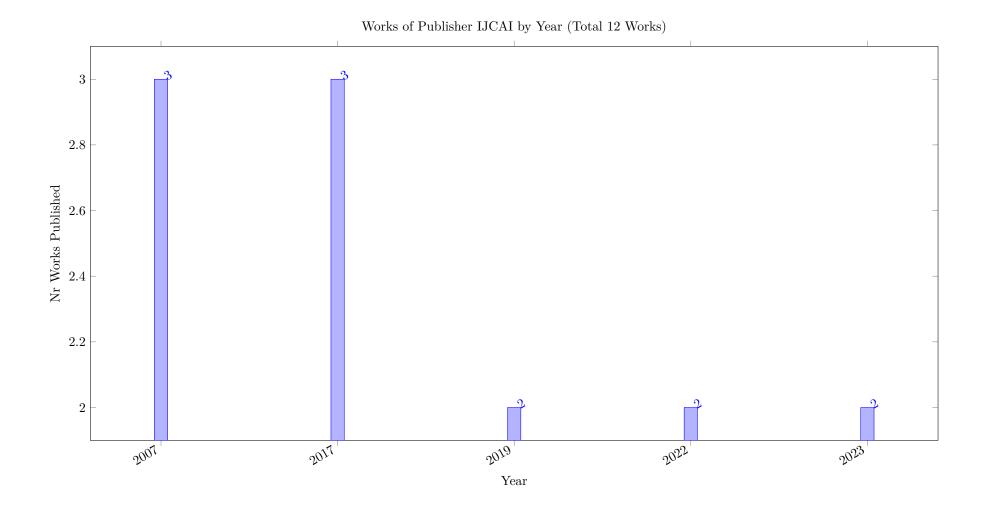


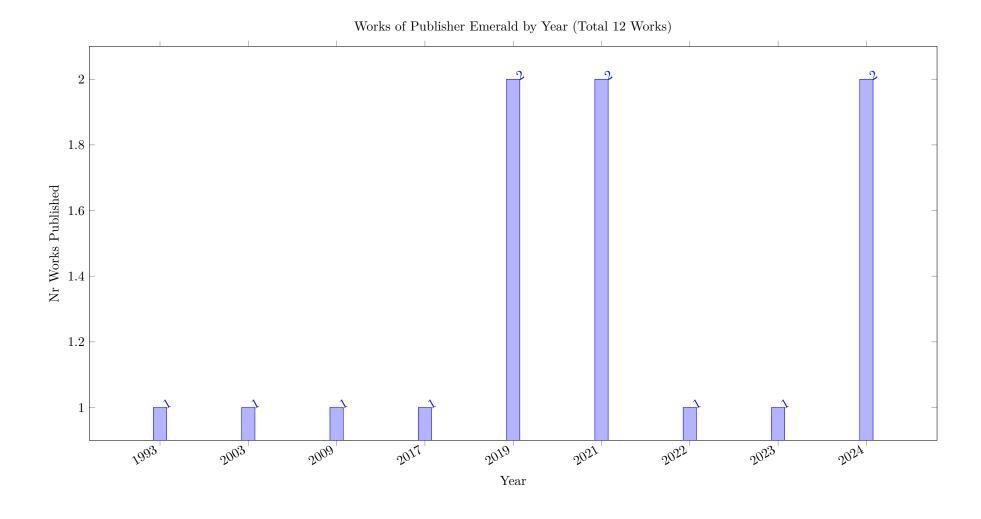


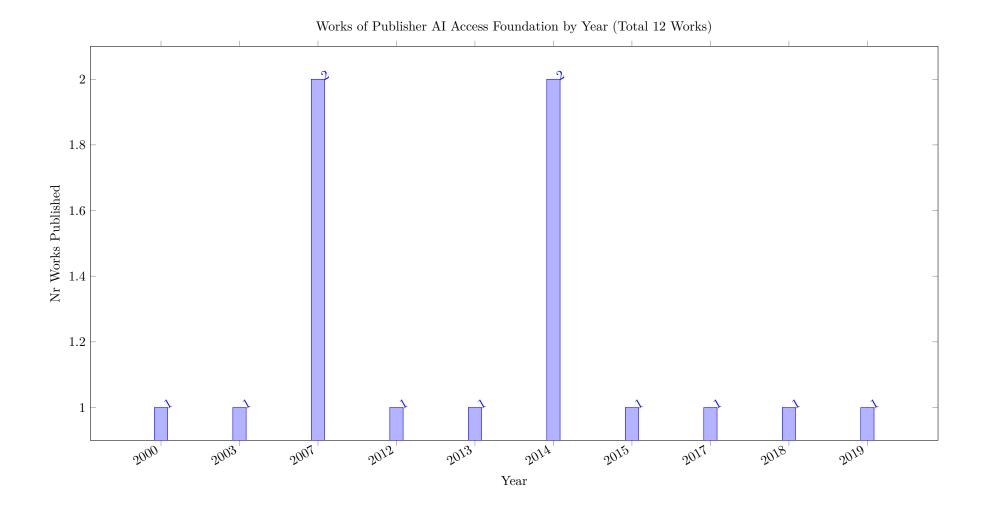


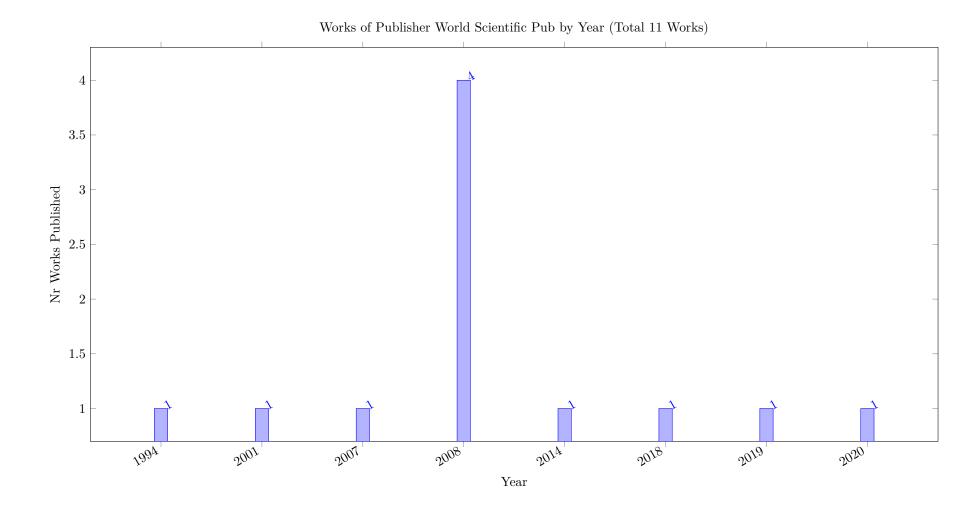


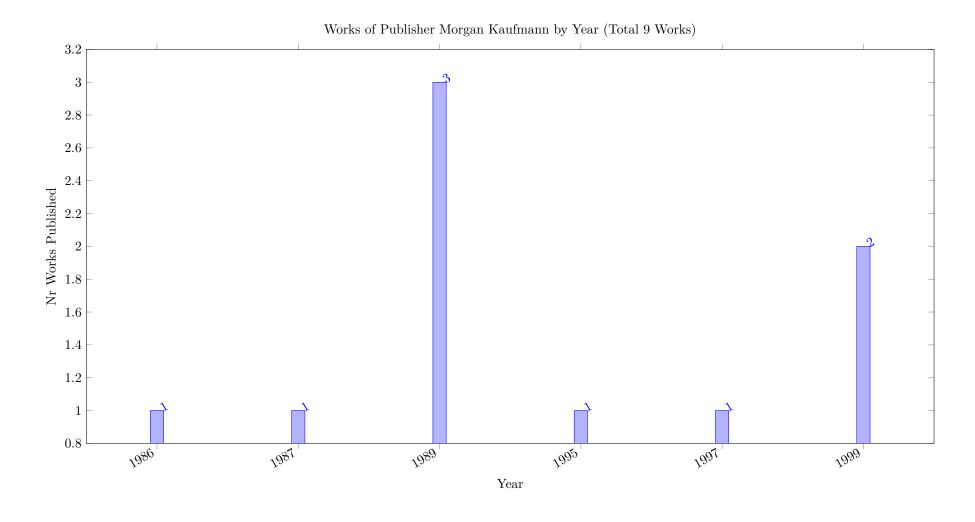


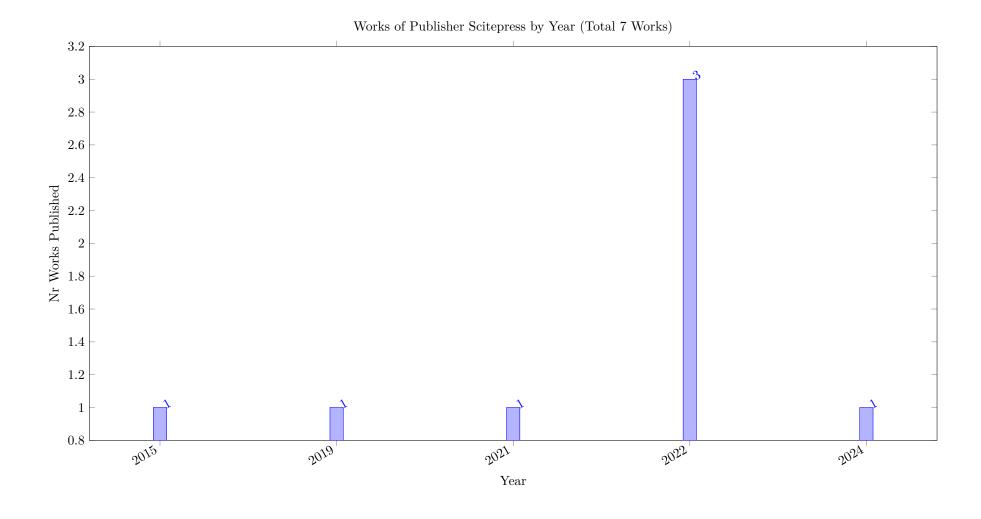


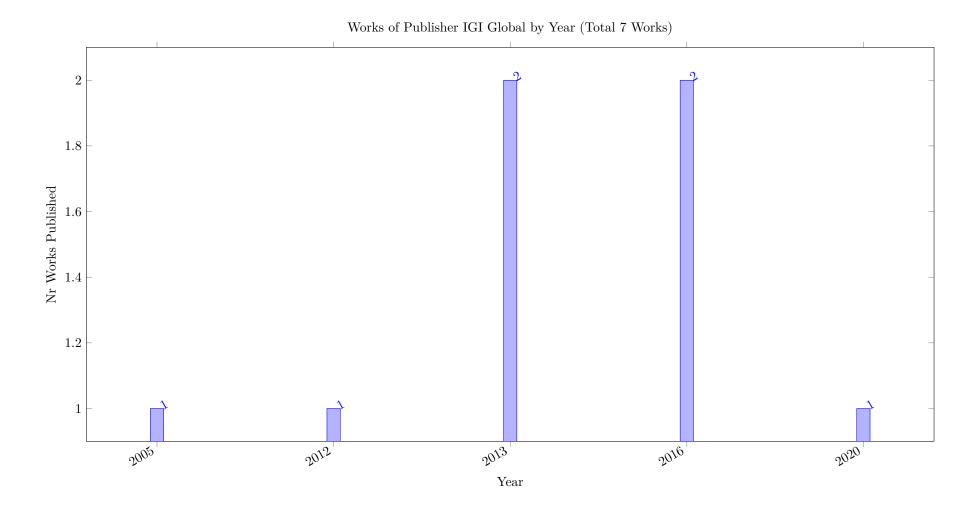


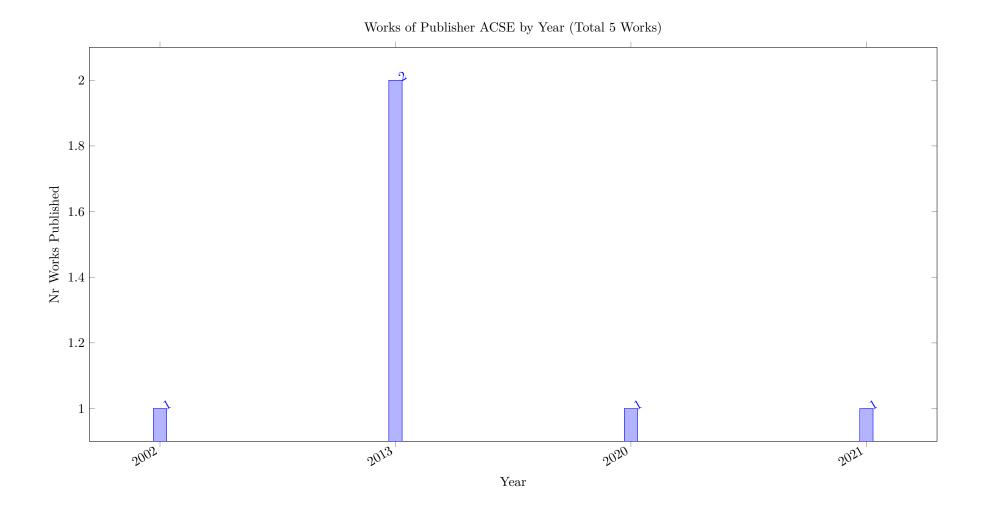


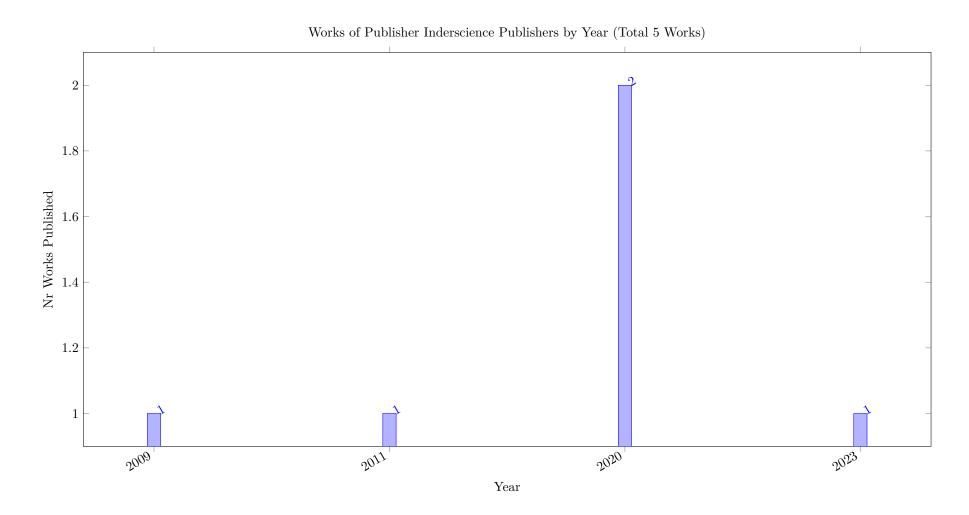


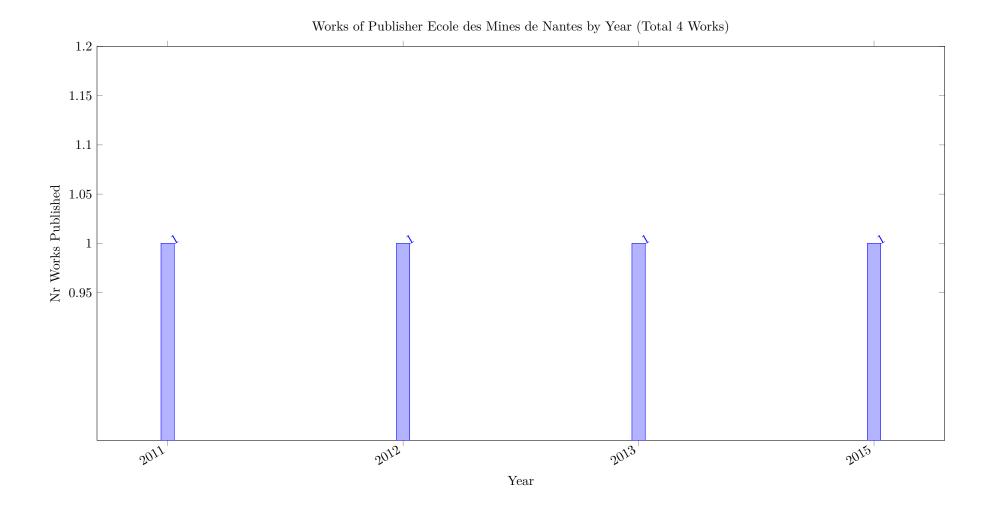




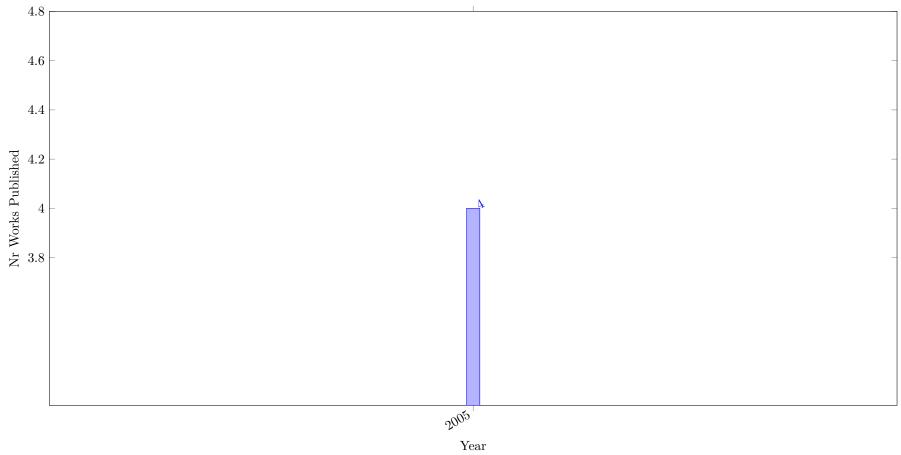


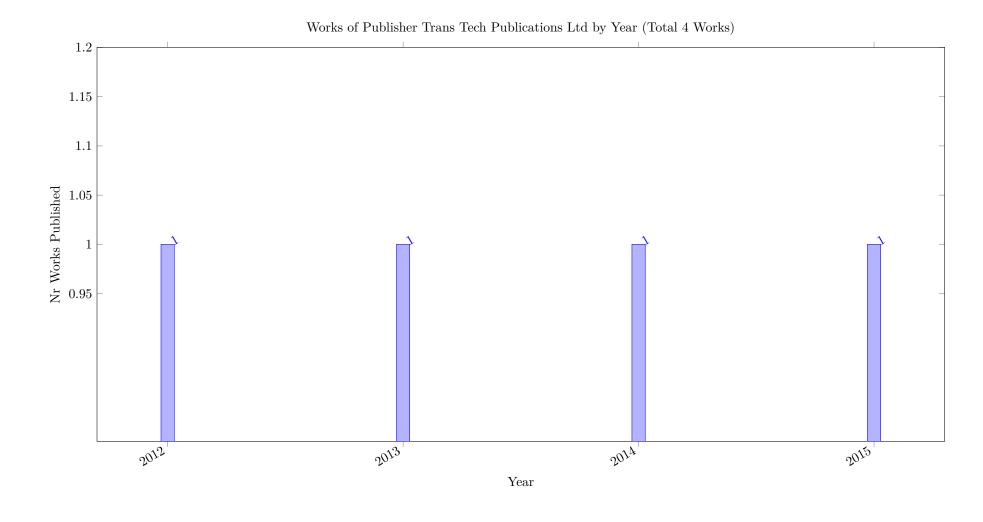


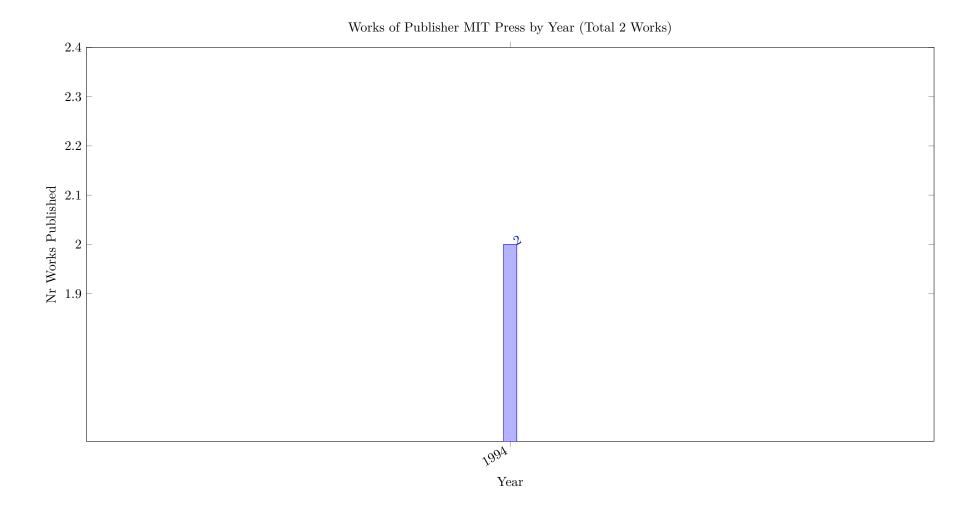












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