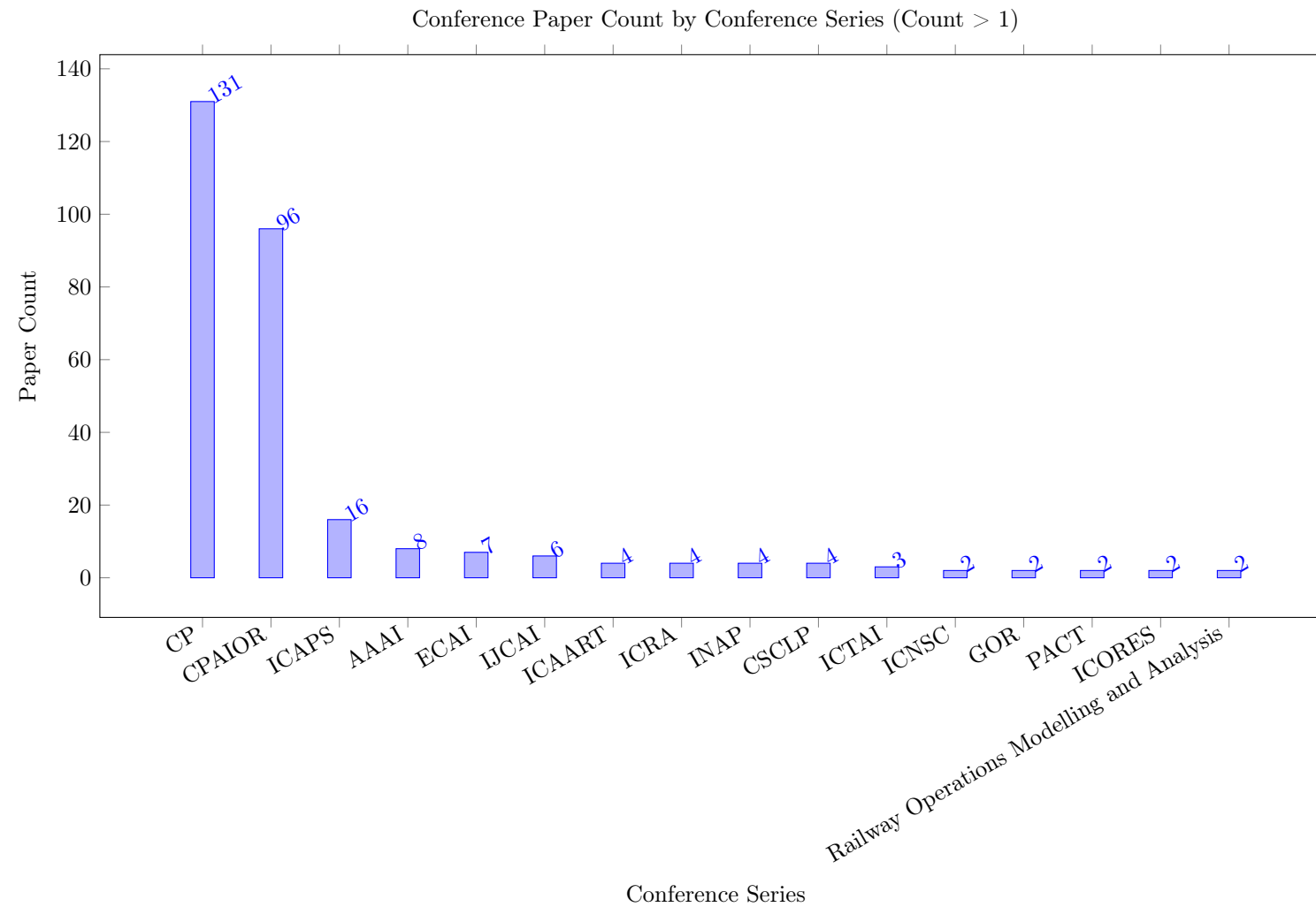


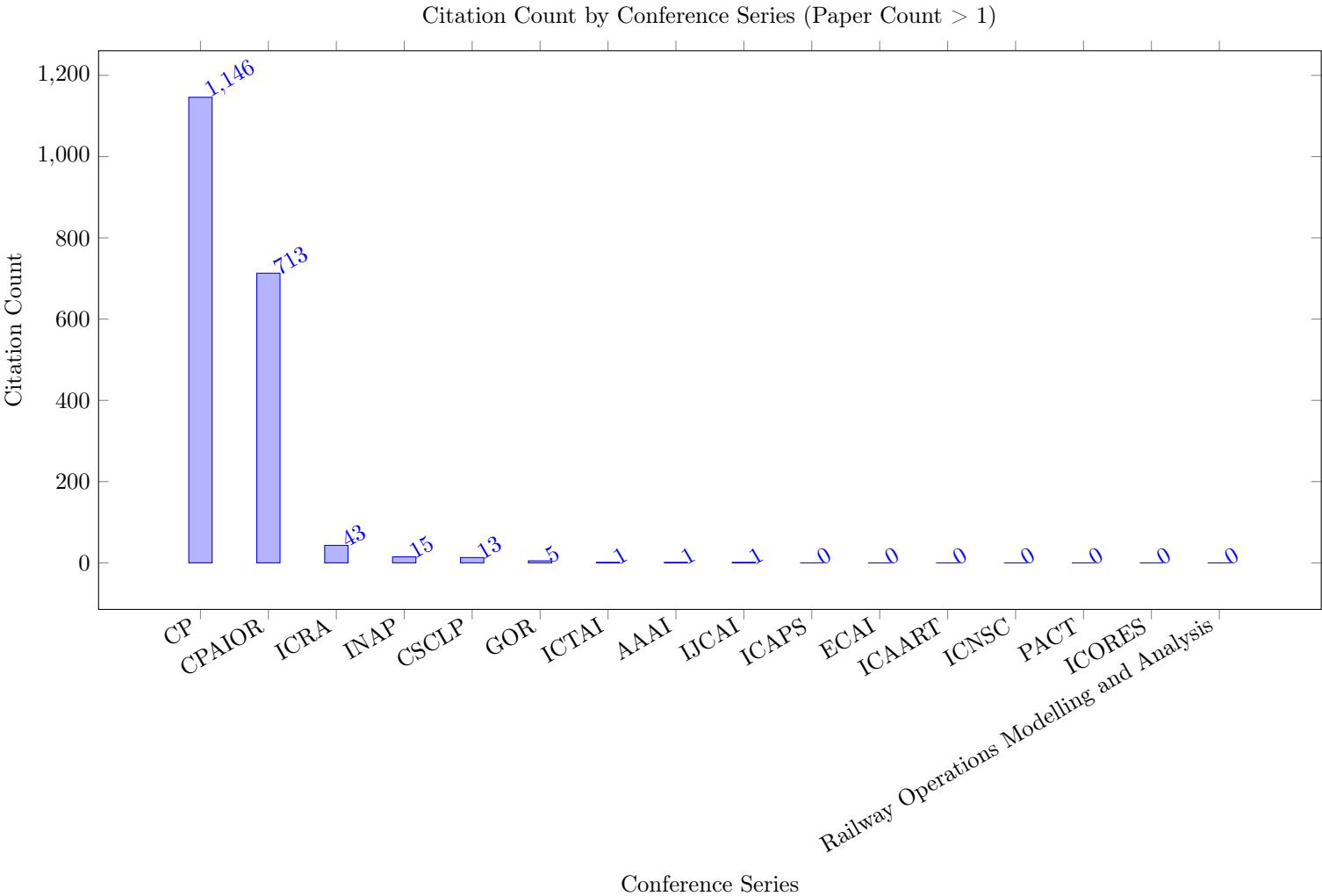
Publication Report

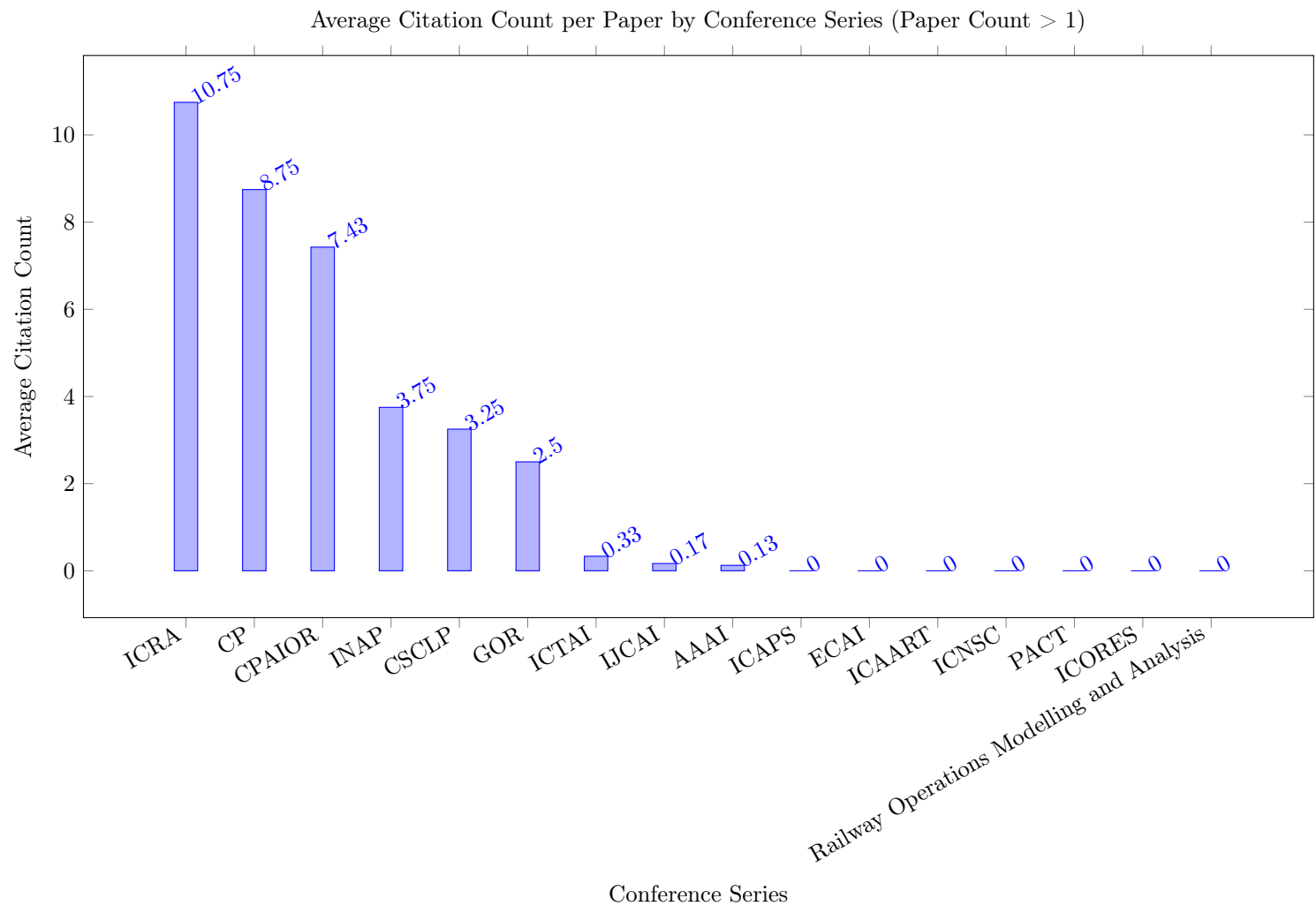
Helmut Simonis and Cemalettin Öztürk

Report Generated on April 18, 2024

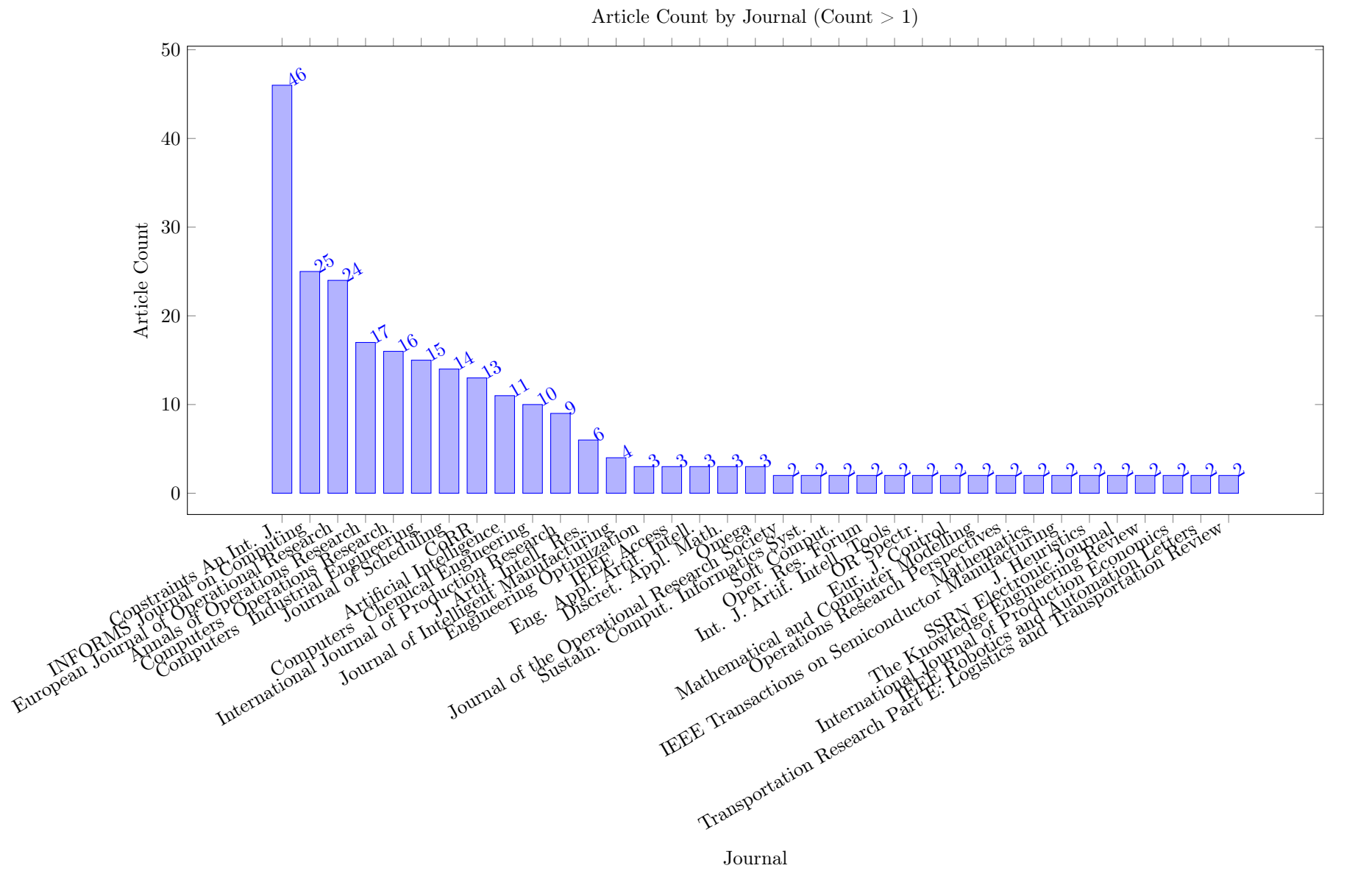
1 Conference Papers by Most Common Conference Series

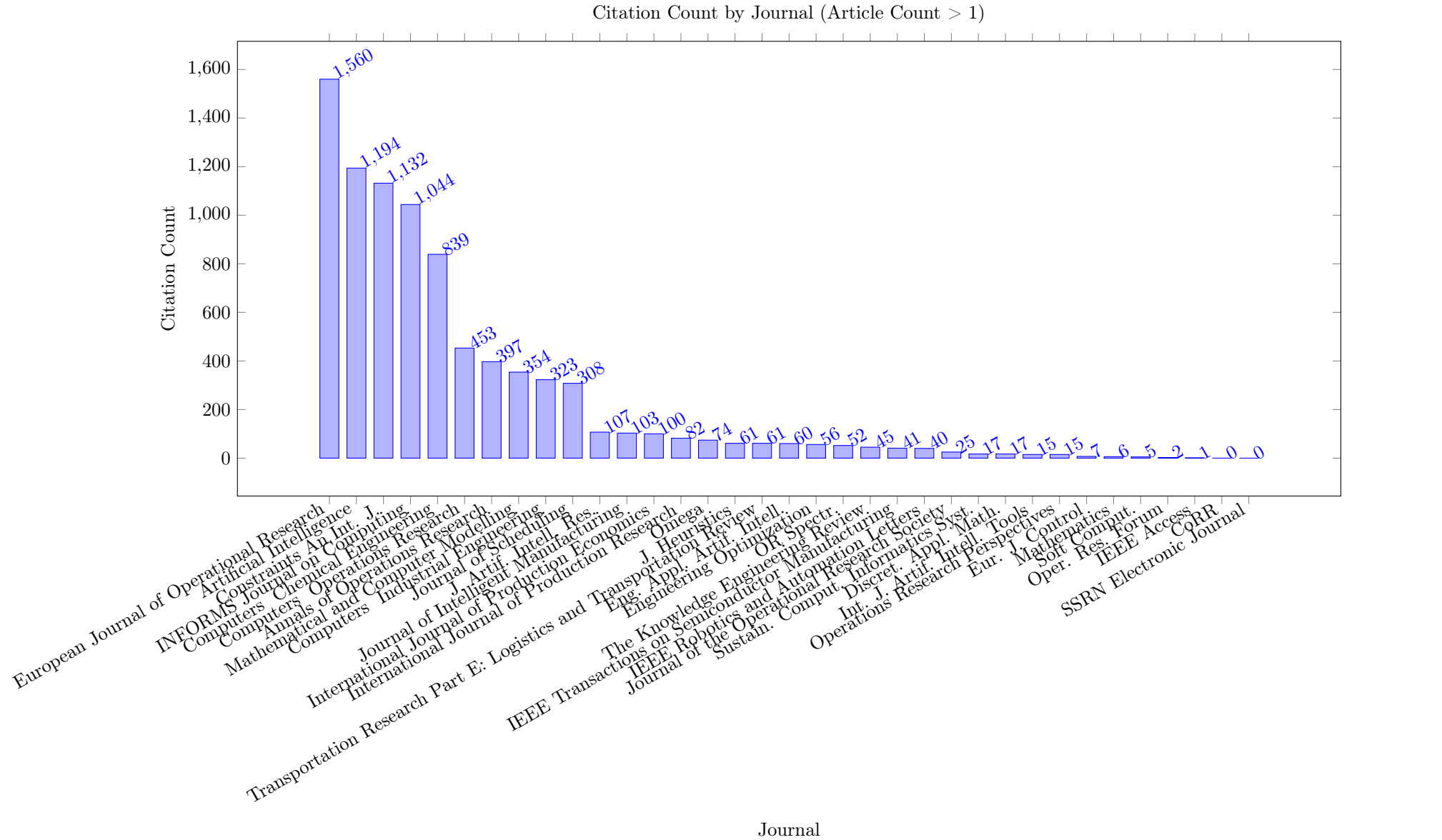


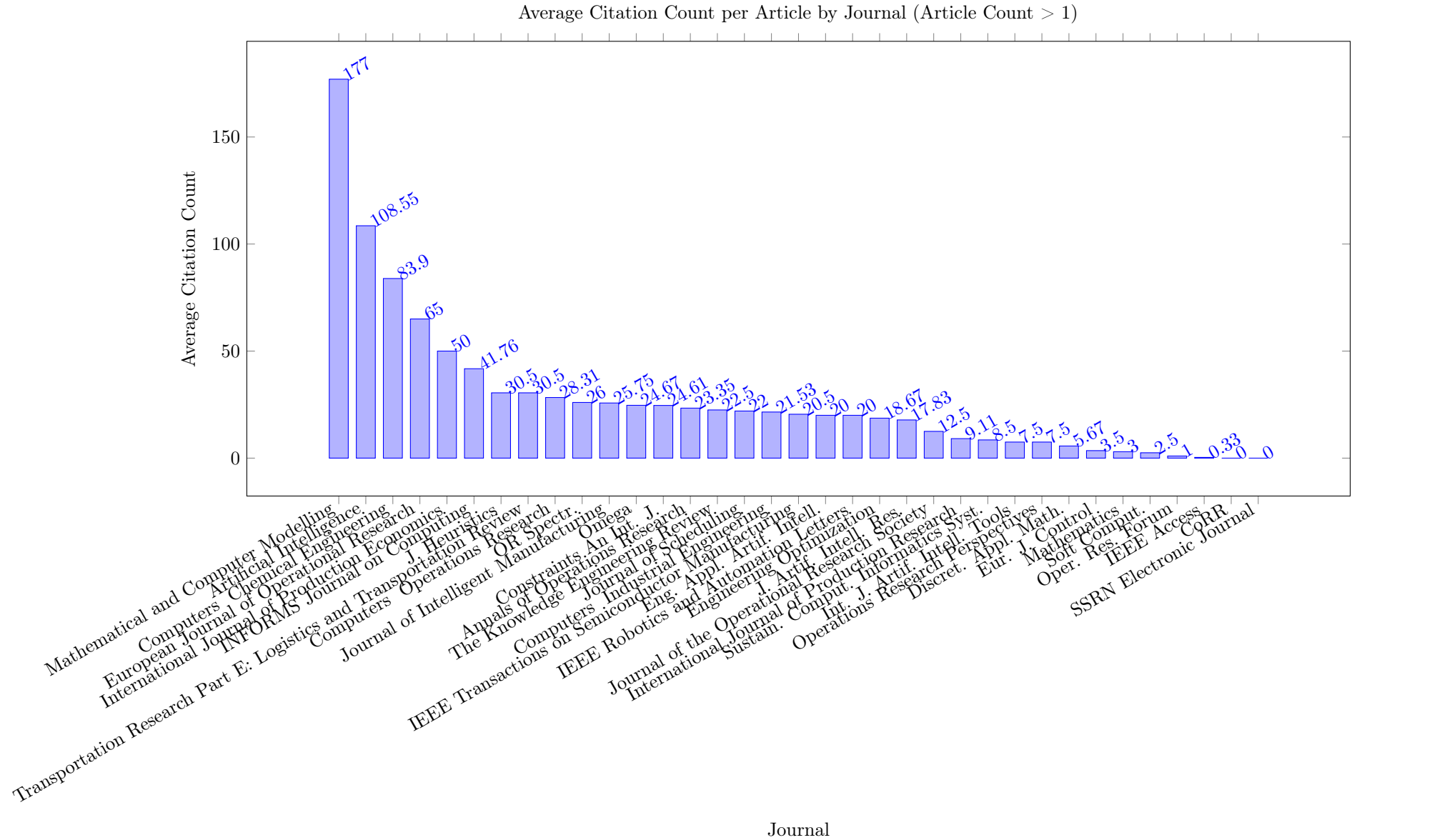




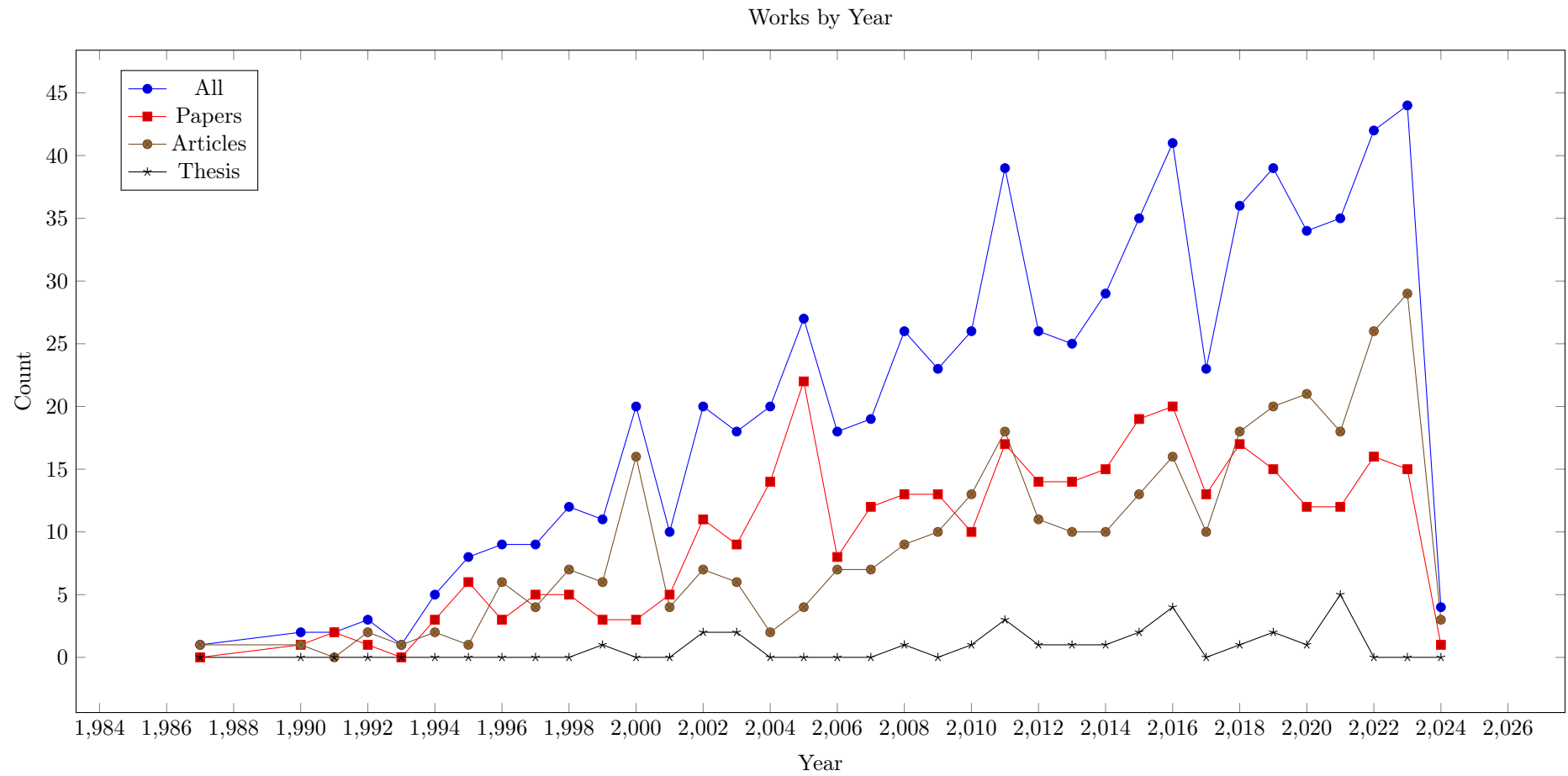
2 Journal Articles by Most Common Journals

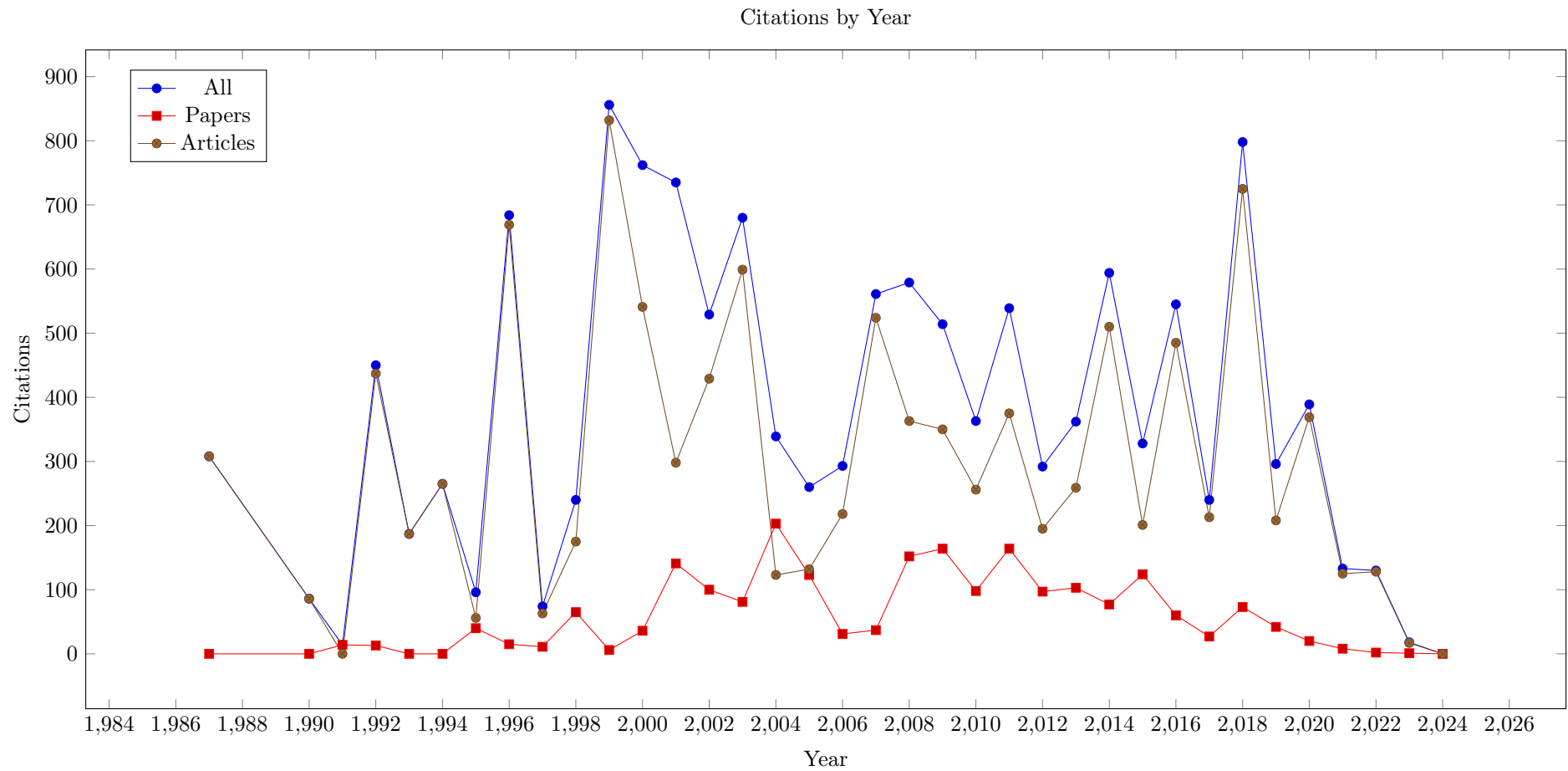


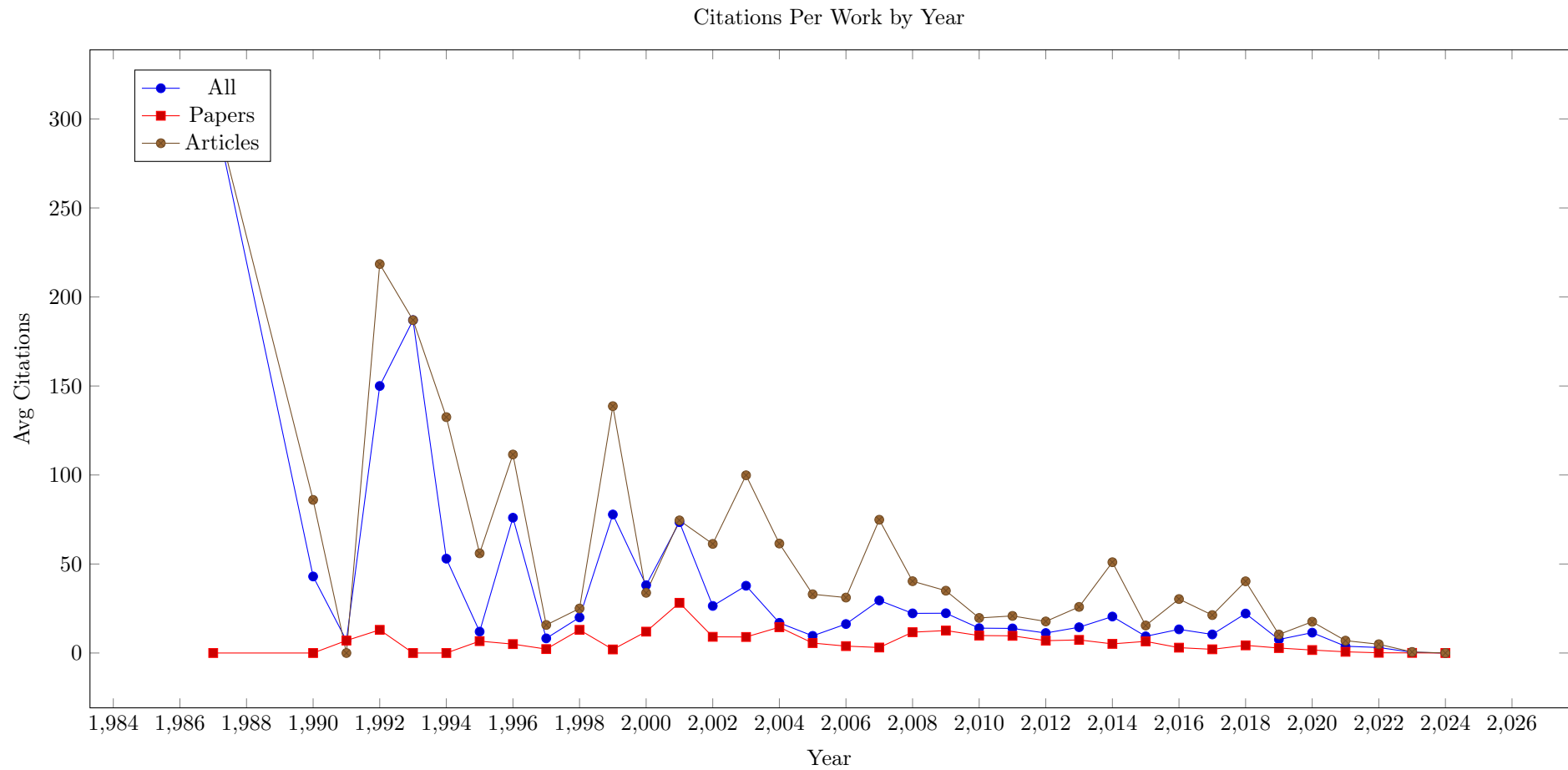




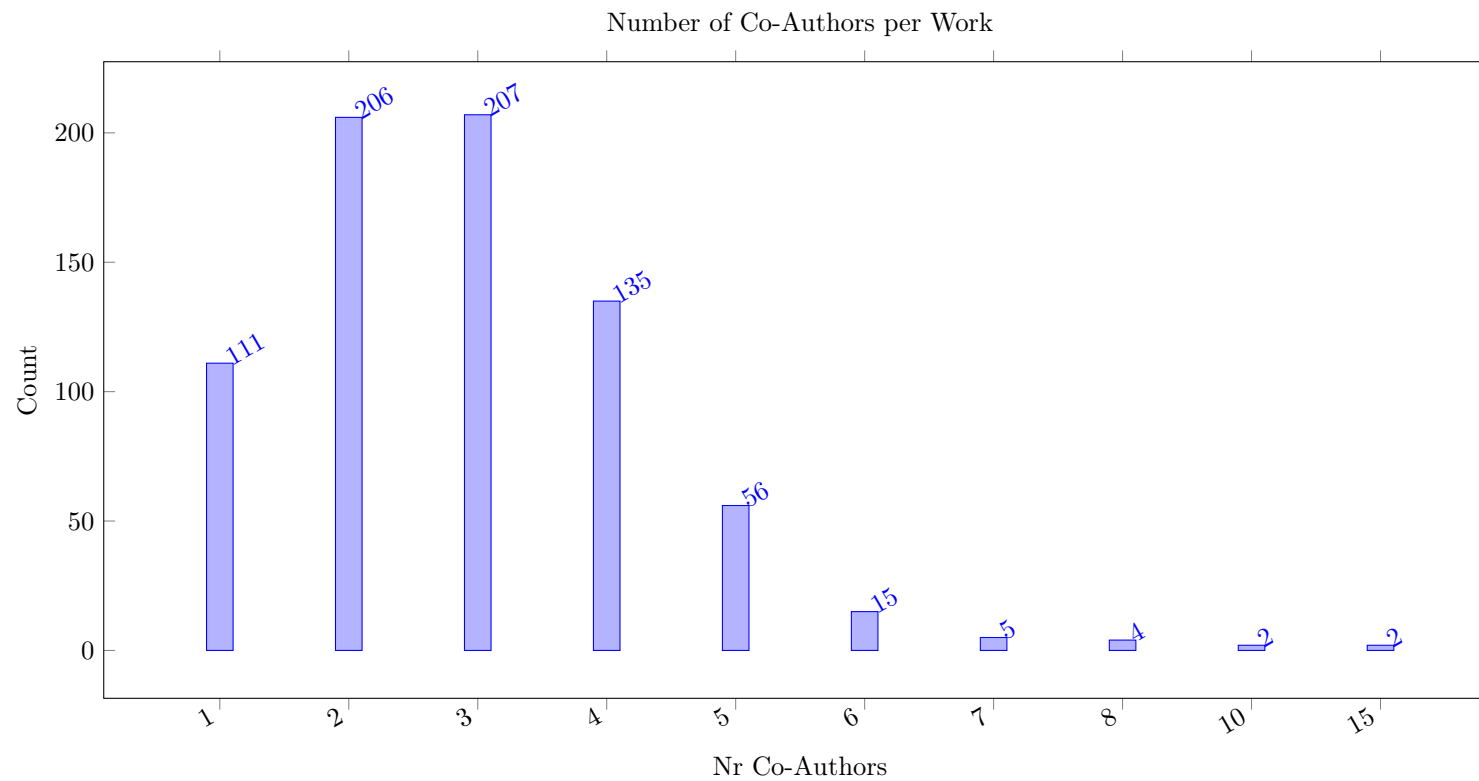
3 Works by Year



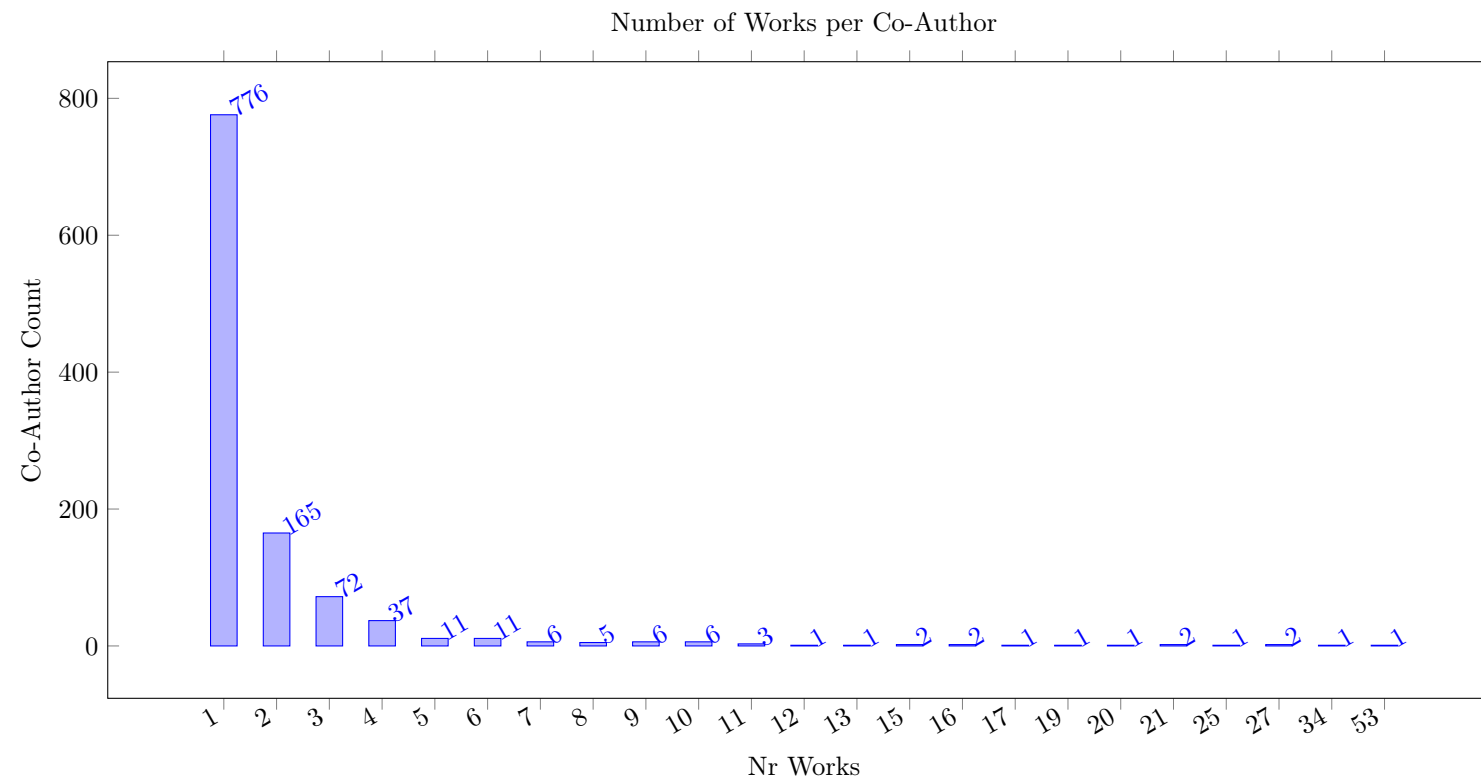




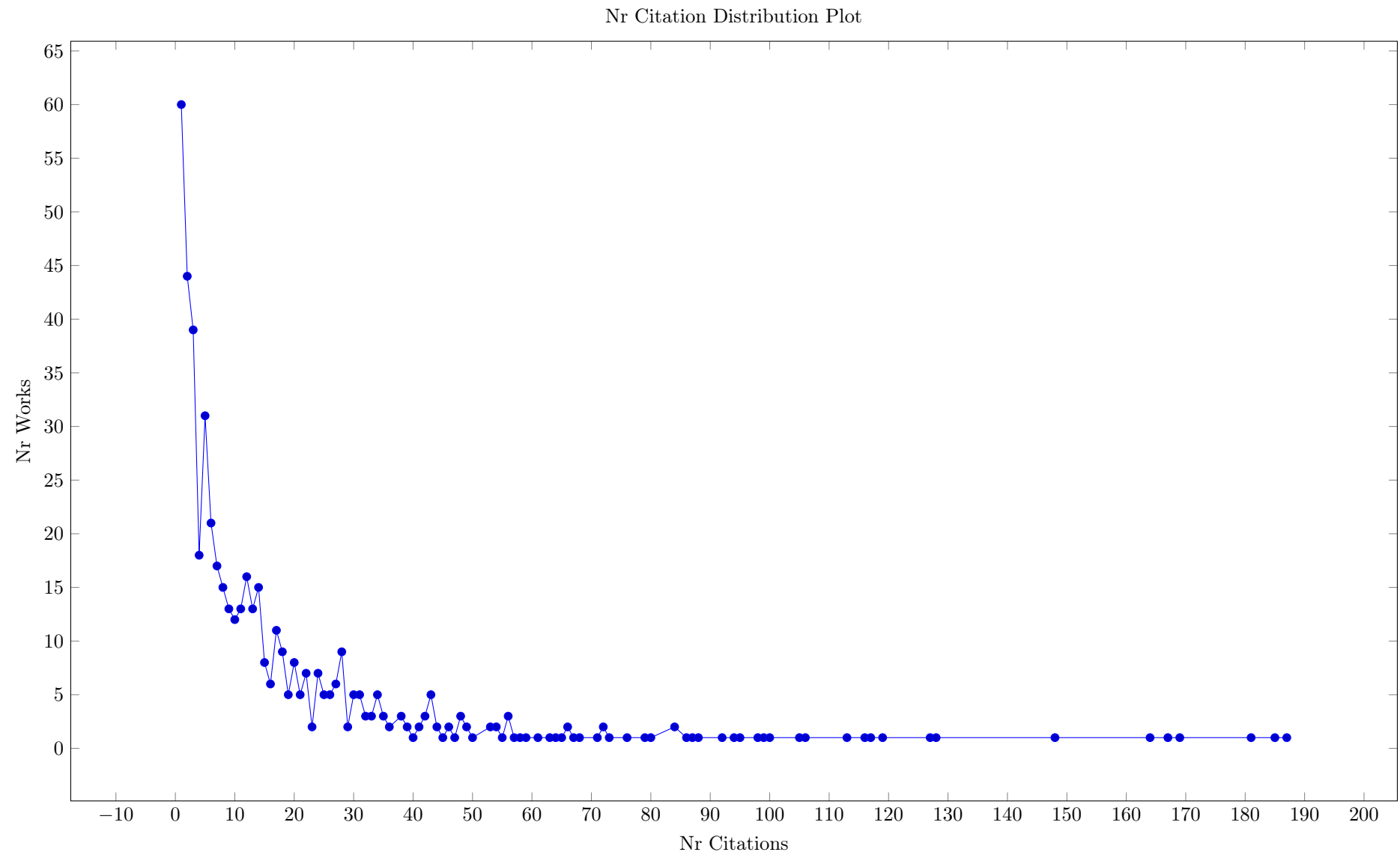
4 Number of Coauthors per Work



5 Number of Works per Author



6 Citation Distribution



7 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 sum of the similarity for citations and for references. As value we compute the ratio of shared references (citations) to the sum of individual references (citations), multiplied by two. So both the citation and reference similarity range between zero and one, and the sum ranges between zero and two. High values are exceedingly 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 more 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.

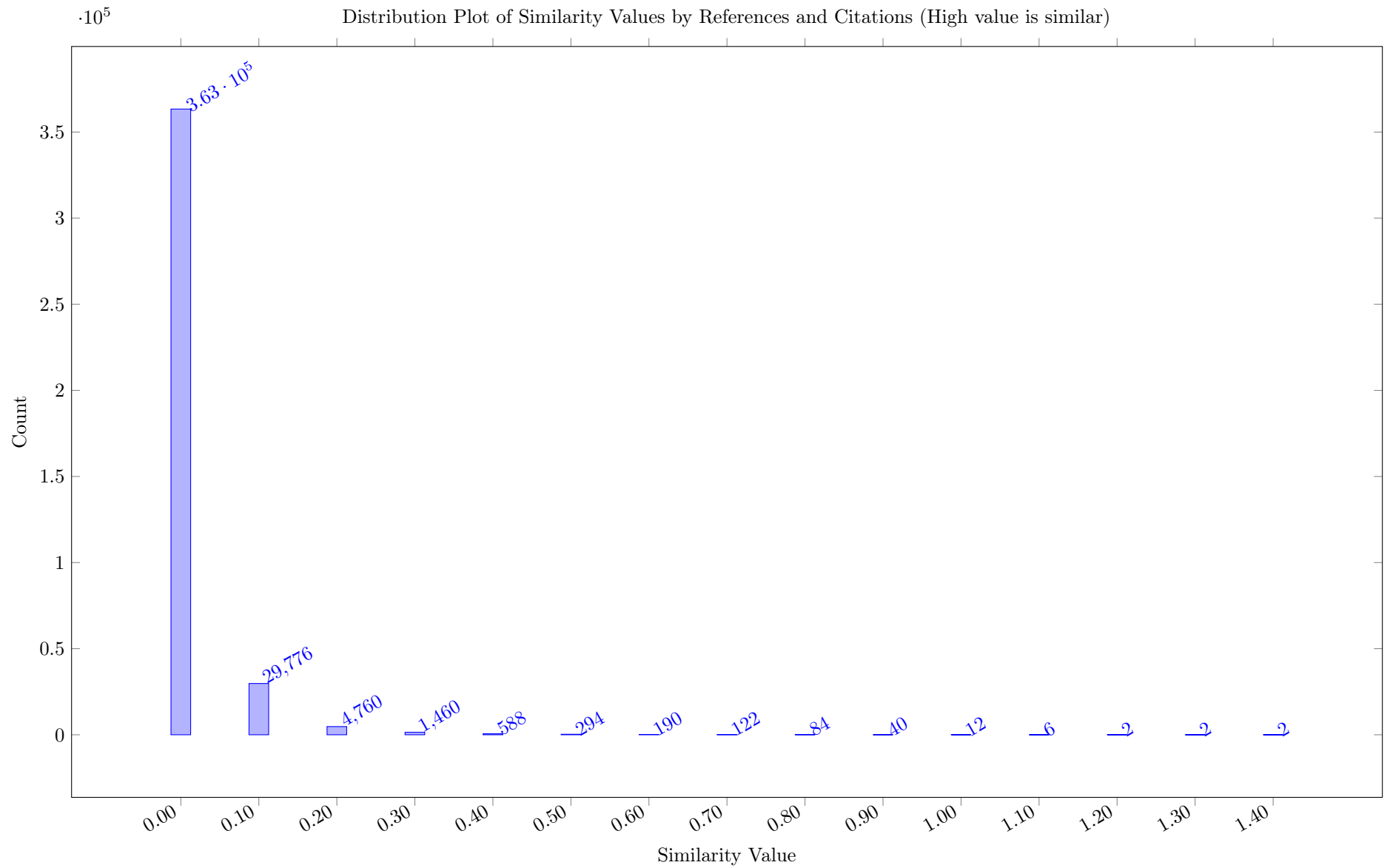
We observe that high values of this similarity are often found for two works by the same authors that are close in time, where we assume that the bibliography is based on the same literature survey.

Table 1: Similarity Measure (*1000) based on References and Citations (high = similar)

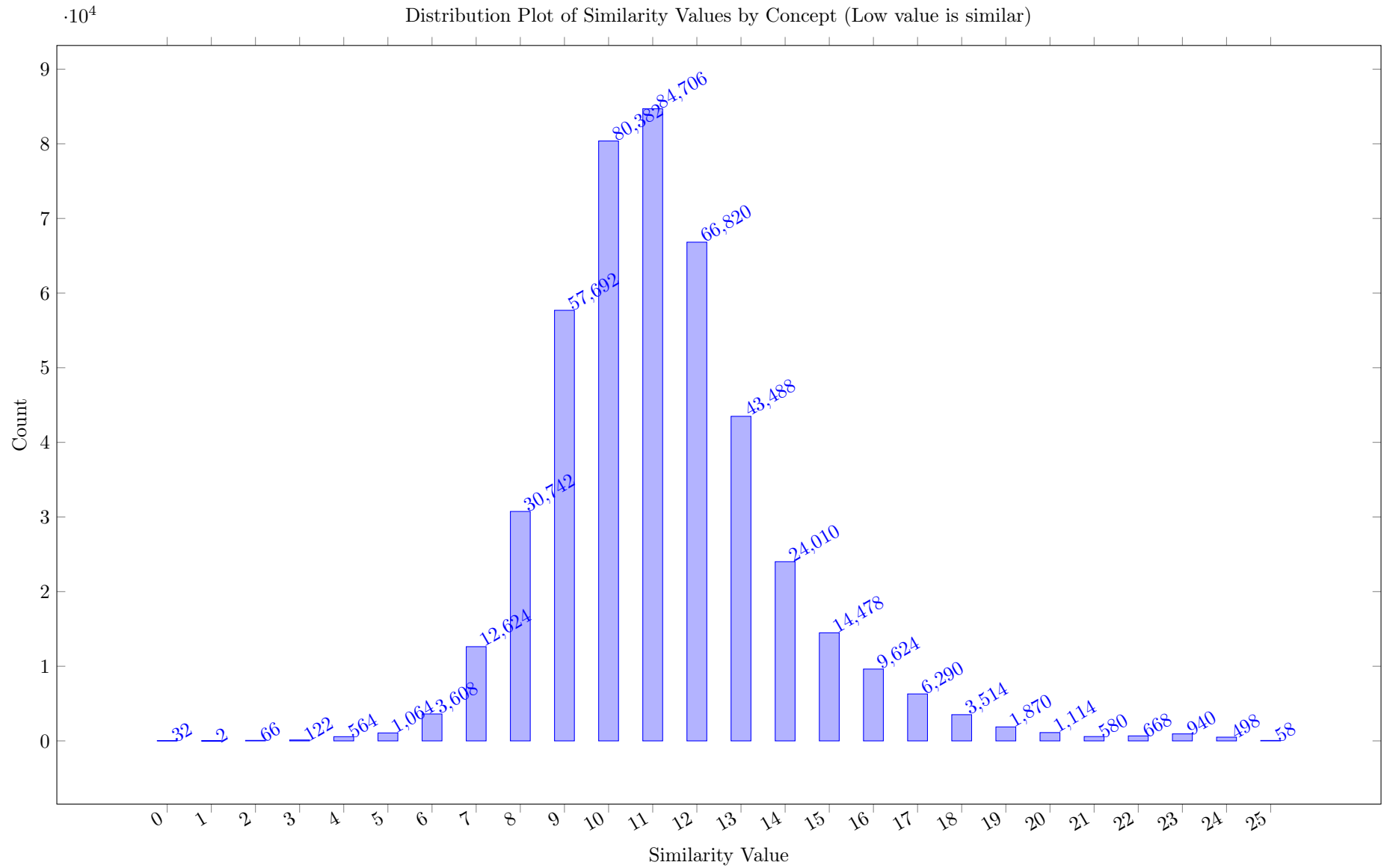
From/To Total	Total	OuelletQ13	Hooker05	KameugneFSN14	SchuttW10	ChuX05	OuelletQ18	Beck10	CireCH16	SchuttFS13a	KameugneF13	CobanH11	Hooker05a	Hooker07	Wolf03	KameugneFSN11	GayHS15a	LetortCB15	AronHY2004	CireCH13	HeinzKB13	Vilim09	MercierH08	Other
		33,465	33,017	32,401	30,954	29,810	29,325	28,885	28,827	28,795	26,848	26,564	26,213	25,781	25,769	25,472	25,395	25,112	25,048	24,802	24,716	24,639	24,444	
OuelletQ13	33,465	0	80	917	757	74	800	80	57	605	778	39	0	0	190	627	774	571	54	0	138	604	333	25,987
Hooker05	33,017	80	0	95	80	840	74	638	548	53	133	497	1,020	859	111	100	87	80	483	468	257	155	125	26,234
KameugneFSN14	32,401	917	95	0	732	87	872	95	65	555	595	43	0	0	118	632	455	417	61	0	80	608	477	25,497
SchuttW10	30,954	757	80	732	0	74	611	80	57	596	754	39	0	0	179	735	231	286	54	0	69	860	566	24,194
ChuX05	29,810	74	840	87	74	0	69	521	483	50	118	508	702	593	100	91	80	74	347	639	214	118	111	23,917
OuelletQ18	29,325	800	74	872	611	69	0	74	54	510	800	38	0	0	174	554	500	333	51	0	65	429	253	23,064
Beck10	28,885	80	638	95	80	521	74	0	551	53	133	576	503	387	111	100	87	80	351	476	154	133	125	23,577
CireCH16	28,827	57	548	65	57	483	54	551	0	42	80	897	452	632	71	67	61	57	227	838	417	80	77	23,014
SchuttFS13a	28,795	605	53	555	596	50	510	53	42	0	360	31	0	0	123	296	308	293	40	0	190	287	293	24,110
KameugneF13	26,848	778	133	595	754	118	800	133	80	360	0	49	0	0	182	769	125	222	74	0	105	694	433	20,444
CobanH11	26,564	39	497	43	39	508	38	576	897	31	49	0	431	659	45	43	41	39	267	835	192	49	48	21,198
Hooker05a	26,213	0	1,020	0	0	702	0	503	452	0	0	431	0	725	0	0	0	0	494	485	160	0	0	21,241
Hooker07	25,781	0	859	0	0	593	0	387	632	0	0	659	725	0	0	0	0	0	326	688	198	0	0	20,714
Wolf03	25,769	190	111	118	179	100	174	111	71	123	182	45	0	0	0	125	211	286	67	0	91	237	167	23,181
KameugneFSN11	25,472	627	100	632	735	91	554	100	67	296	769	43	0	0	125	0	286	261	63	0	83	837	440	19,363
GayHS15a	25,395	774	87	455	231	80	500	87	61	308	125	41	0	0	211	286	0	462	57	0	74	125	118	21,313
LetortCB15	25,112	571	80	417	286	74	333	80	57	293	222	39	0	0	286	261	462	0	54	0	69	111	105	21,312
AronHY2004	25,048	54	483	61	54	347	51	351	227	40	74	267	494	326	67	63	57	54	0	323	158	74	71	21,352
CireCH13	24,802	0	468	0	0	639	0	476	838	0	0	835	485	688	0	0	0	0	323	0	316	0	0	19,734
HeinzKB13	24,716	138	257	80	69	214	65	154	417	190	105	192	160	198	91	83	74	69	158	316	0	164	100	21,422
Vilim09	24,639	604	155	608	860	118	429	133	80	287	694	49	0	0	237	837	125	111	74	0	164	0	643	18,431
MercierH08	24,444	333	125	477	566	111	253	125	77	293	433	48	0	0	167	440	118	105	71	0	100	643	0	19,959
Hooker06	24,296	0	776	0	0	712	0	491	529	0	0	743	726	860	0	0	0	0	337	737	143	0	0	18,242
SchuttFSW11	23,869	303	0	367	493	0	237	79	0	646	148	0	46	25	29	188	204	216	0	0	30	196	135	20,527
Hooker04	23,819	39	893	0	38	622	0	469	370	34	0	299	1,114	662	0	0	0	0	520	313	208	31	28	18,179
GrimesH15	23,542	36	38	78	36	37	35	38	32	29	89	26	0	10	208	80	38	73	31	0	36	153	87	22,352
KameugneFGOQ18	23,425	538	87	455	374	80	714	87	61	359	411	41	0	0	105	536	667	308	57	0	74	202	178	18,091
LetortBC12	23,336	851	0	689	541	0	381	87	0	468	250	0	0	0	105	415	507	615	0	0	0	465	280	17,682
BeldiceanuC02	23,247	352	100	313	261	91	314	100	67	224	308	43	63	0	386	311	243	261	63	0	167	361	327	18,892
Wolf05	22,883	273	105	111	182	95	167	105	69	57	167	44	0	0	800	118	200	273	65	0	87	167	154	19,644
SimonisH11	22,769	522	100	316	261	91	320	100	67	167	308	43	0	0	250	333	286	348	63	0	167	462	143	18,422
LetortCB13	22,762	500	95	400	333	87	231	95	65	270	286	43	0	0	235	516	364	833	61	0	80	214	133	17,921
SchuttFSW15	22,680	286	51	211	190	49	227	51	41	647	125	31	0	0	57	162	200	190	39	0	186	125	61	19,751
GrimesHM09	22,675	77	87	91	77	80	71	87	61	51	125	41	0	10	211	95	83	77	57	0	74	175	118	20,927
Colombani96	22,284	105	0	267	0	0	95	0	0	63	0	0	0	0	467	143	118	105	0	0	0	0	256	20,665
CobanH10	21,930	0	378	0	0	364	0	471	617	0	0	478	572	431	0	0	0	0	268	667	167	0	0	17,517
Vilim09a	21,822	382	158	286	675	118	505	133	80	307	711	49	47	10	182	562	125	111	74	0	105	961	400	15,841
SadykovW06	21,762	100	341	125	100	279	91	267	148	61	200	161	258	186	154	133	111	100	171	111	95	200	182	18,188
DorndorfHP99	21,537	59	0	133	0	0	56	0	0	85	0	0	0	0	148	69	63	59	0	0	0	0	160	20,705
YunesAH10	21,321	38	290	42	38	262	37	386	321	31	48	394	385	308	44	43	40	38	621	405	134	48	47	17,321
VilimBC05	21,058	105	147	267	105	111	95	125	77	111	222	48	39	10	229	286	118	105	71	0	100	266	400	18,021
Vilim11	20,989	700	21	485	739	0	326	0	47	598	694	0	34	29	0	552	293	200	0	0	149	615	300	15,207
Other		20,721	22,567	20,861	19,751	20,839	19,162	20,406	20,362	19,902	16,352	18,714	17,957	18,173	19,571	14,821	17,653	17,400	18,854	17,501	19,420	13,790	16,570	

Table 2: Similarity Measure based on Extracted Concepts (low = similar)

From/To Total	Total	SIMILARITY MEASURES																							
		Petropoulos23	ZarandiASC20	Groleaz21	Dejemeppe16	Baptiste02	Malapert11	Froger16	Lunardi20	Siala15a	Lombardi10	Godet21a	Astrand21	LaborieRSV18	Siala15	NaderiRR23	LacknerMMWW23	Lemos21	Schutt11	Fahimi16	KochlerBFFHPSSS21	IsikYA23	HartmannB10	HarjunkoskiMBC14	HartmannB22
Petropoulos23	15,522	0	21	23	24	25	25	22	23	25	22	23	21	22	25	23	24	20	24	23	23	21	21	21	
ZarandiASC20	14,480	21	0	18	20	19	21	22	18	24	21	21	18	21	24	20	22	21	22	21	23	18	18	20	18
Groleaz21	12,847	23	18	0	18	17	19	20	16	20	17	19	16	17	20	15	18	20	19	18	20	17	17	18	18
Dejemeppe16	12,579	24	20	18	0	17	17	21	17	19	17	19	17	18	19	19	18	20	16	16	19	17	16	19	17
Baptiste02	12,055	25	19	17	17	0	17	22	19	19	16	17	16	18	19	17	19	21	16	15	20	18	16	19	17
Malapert11	12,022	25	21	19	17	17	0	21	18	18	18	17	17	18	18	19	20	15	14	19	18	18	18	19	19
Froger16	11,589	22	22	20	21	22	21	0	18	22	19	20	18	20	21	20	19	17	20	19	20	18	19	17	17
Lunardi20	11,261	23	18	16	17	19	18	18	0	19	19	18	14	17	19	15	17	18	18	18	13	17	16	17	17
Siala15a	11,250	25	24	20	19	19	18	22	19	0	19	17	19	19	5	18	19	19	17	17	18	19	19	19	20
Lombardi10	11,186	22	21	17	17	16	18	19	19	19	0	17	16	17	19	18	19	19	14	15	19	18	15	16	15
Godet21a	11,078	23	21	19	19	17	17	20	18	17	17	0	17	17	17	17	18	19	15	15	17	18	17	19	18
Astrand21	10,920	21	18	16	17	16	17	18	14	19	16	17	0	16	18	17	18	17	16	15	18	15	16	15	16
LaborieRSV18	10,890	22	21	17	18	18	18	20	17	19	17	17	16	0	18	16	17	18	17	16	17	17	17	15	17
Siala15	10,768	25	24	20	19	19	18	21	19	5	19	17	18	18	0	18	16	19	18	17	16	17	19	18	19
NaderiRR23	10,604	23	20	15	19	17	18	20	15	18	18	17	17	16	18	0	16	18	18	17	17	14	17	17	17
LacknerMMWW23	10,416	24	22	18	18	19	19	19	17	19	19	18	18	17	19	16	0	17	19	19	16	15	17	17	18
Lemos21	10,411	20	21	20	20	21	20	17	18	19	19	19	17	18	18	17	0	19	18	16	17	17	16	17	17
Schutt11	10,393	24	22	19	16	16	15	20	18	17	14	15	16	17	17	18	19	19	0	13	18	18	15	18	16
Fahimi16	10,369	24	21	18	16	15	14	19	18	17	15	15	15	16	16	17	19	18	13	0	18	18	16	17	17
KochlerBFFHPSSS21	10,334	23	23	20	19	20	19	20	18	18	18	19	17	18	17	17	16	16	18	18	0	17	19	17	19
IsikYA23	10,306	23	18	17	17	18	18	18	13	19	18	18	15	17	19	14	15	17	18	18	17	0	16	17	15
HartmannB10	10,071	21	18	17	16	16	18	19	17	19	15	17	16	17	18	17	17	15	16	19	16	0	16	10	10
HarjunkoskiMBC14	10,045	21	20	18	19	19	18	17	16	19	16	19	15	15	18	17	17	16	18	17	17	16	0	16	16
HartmannB22	10,037	21	18	18	17	17	19	17	17	20	15	18	16	17	19	17	18	17	16	17	19	15	10	16	0
ArmstrongGOS21	10,016	25	22	19	18	19	19	17	19	15	19	19	18	17	17	18	16	18	17	17	16	15	18	18	17
LacknerMMWW21	9,999	24	23	18	18	19	20	19	17	19	19	18	18	17	19	16	5	18	19	18	15	15	17	17	17
PrataAN23	9,861	22	16	16	16	16	17	18	15	19	16	17	14	17	18	14	16	18	17	15	18	13	14	15	14
ColT22	9,642	23	19	16	17	16	17	19	13	18	17	16	15	15	18	14	13	16	17	16	14	13	16	16	16
MengZRZL20	9,576	23	18	17	19	17	17	19	13	18	18	18	15	16	18	12	15	17	18	17	17	10	16	16	16
HookerH17	9,534	22	22	20	18	18	18	18	19	17	16	17	17	17	16	17	17	16	15	17	17	17	17	16	17
GrimesH15	9,522	24	19	16	16	15	15	19	15	16	16	16	15	15	15	12	15	18	15	14	17	13	15	15	16
AbreuNP23	9,485	24	20	18	19	18	18	19	15	18	18	18	16	17	18	13	16	17	17	17	17	13	16	16	16
Beck99	9,400	22	20	18	16	16	16	18	17	18	14	17	14	16	17	17	17	16	14	14	16	15	14	15	14
YunusogluY22	9,394	22	18	17	17	17	17	17	13	18	17	17	15	16	18	14	15	16	17	17	17	11	13	15	13
WinterMMW22	9,312	23	22	19	20	19	20	18	16	19	18	18	17	17	19	14	14	16	18	18	17	15	16	16	17
MilanoW09	9,237	23	22	19	18	18	18	17	18	18	17	17	17	17	17	17	17	16	16	16	17	17	16	14	16
AbreuPNF23	9,218	22	18	17	17	17	17	17	14	18	17	17	14	16	18	13	16	16	16	16	17	12	14	16	14
AbreuN22	9,217	23	19	17	17	16	16	16	14	18	17	18	15	16	17	13	15	16	16	16	17	12	15	16	15
MejiaY20	9,186	24	19	18	18	17	17	17	14	18	18	17	16	18	17	14	16	17	16	17	17	12	15	16	15
LombardiM12	9,166	21	19	16	16	15	18	17	17	17	13	16	14	14	17	14	17	14	14	14	17	16	12	14	12
GuoZ23	9,097	20	22	20	21	21	20	17	17	19	18	19	17	17	18	16	17	15	19	18	16	17	17	15	17
BlazewiczDP96	9,087	23	19	16	16	15	16	18	15	18	15	15	14	17	17	16	16	17	15	14	15	14	13	15	15
Nattaf16	9,082	24	22	18	19	17	17	18	17	17	17	17	17	17	16	16	16	17	16	16	17	15	15	17	16
Caballero19	9,055	23	22	19	18	17	18	19	18	16	15	14	17	17	16	17	17	17	12	15	17	17	15	17	15
Zahout21	9,052	22	20	18	18	18	18	18	16	18	16	16	16	16	17	18	15	16	15	16	17	15	15	16	14
Section 74	9,000	22	20	18	19	19	16	19	19	17	16	16	17	17	16	17	18	17	13	13	18	18	17	18	17
MullerMKP22	8,978	23	20	17	16	14	15	19	15	17	15	15	15	16	17	15	17	18	14	12	16	15	14	15	15
BartakSR10	8,968	25	22	18	18	16	16	19	16	16	17	14	17	16	15	14	17	17	15	14	16	16	16	17	17
JuvinHHL23	8,956	23	19	17	19	16	17	17	15	18	17	17	15	17	17	14	16	17	17	16	16	14	16	15	16
YuraszcekMPV22	8,934	22	21	17	18	19	18	16	14	18	17	17	15	15	18	14	15	15	16	16	14	15	15	15	15



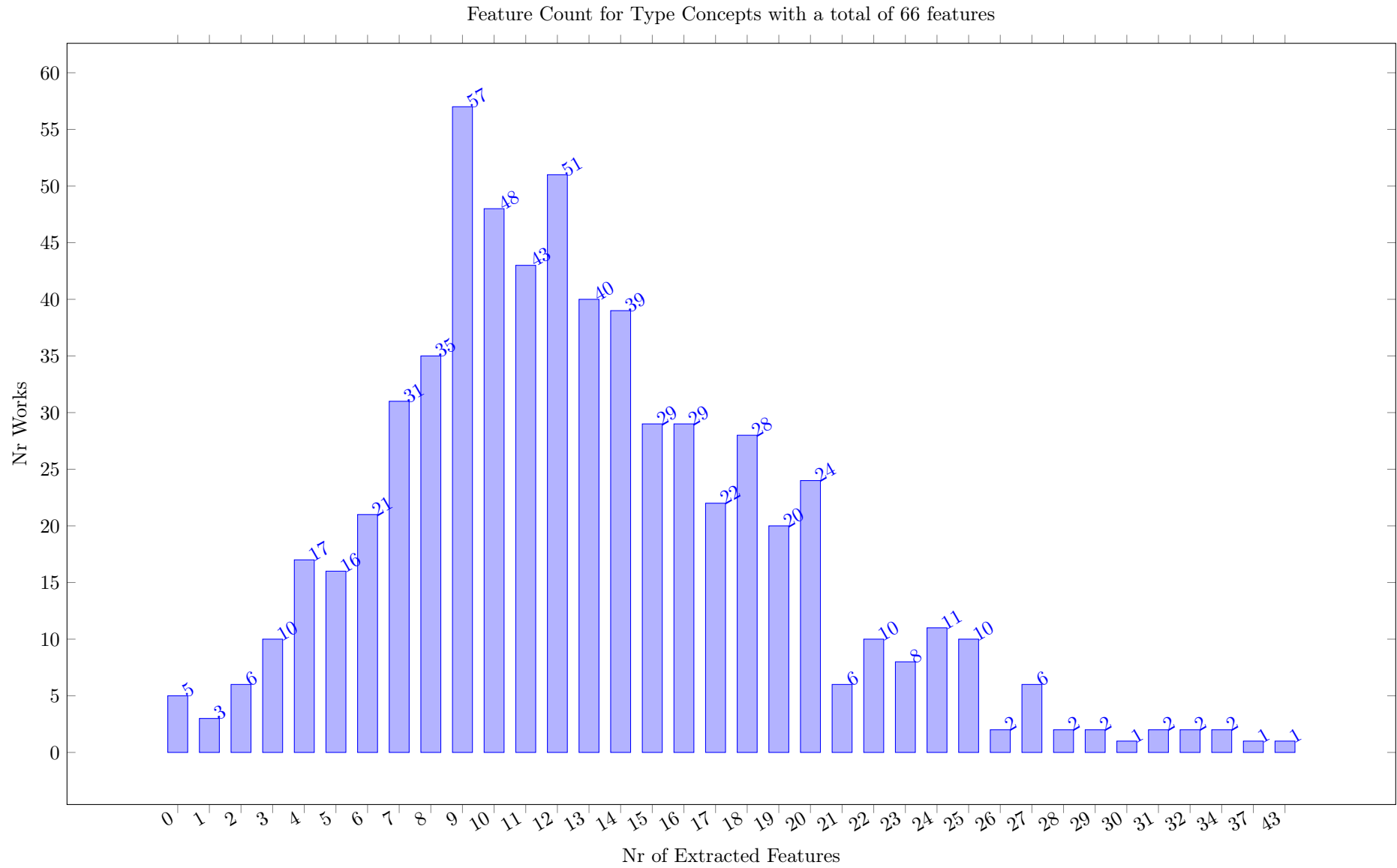
The similarity by concept uses the Euclidean distance between the feature vectors for two works. We translate the MatchLevel for each Concept into a linear scale, and then calculate the distances as the square root of the sum of squared differences for each feature. The distribution plot below rounds 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.

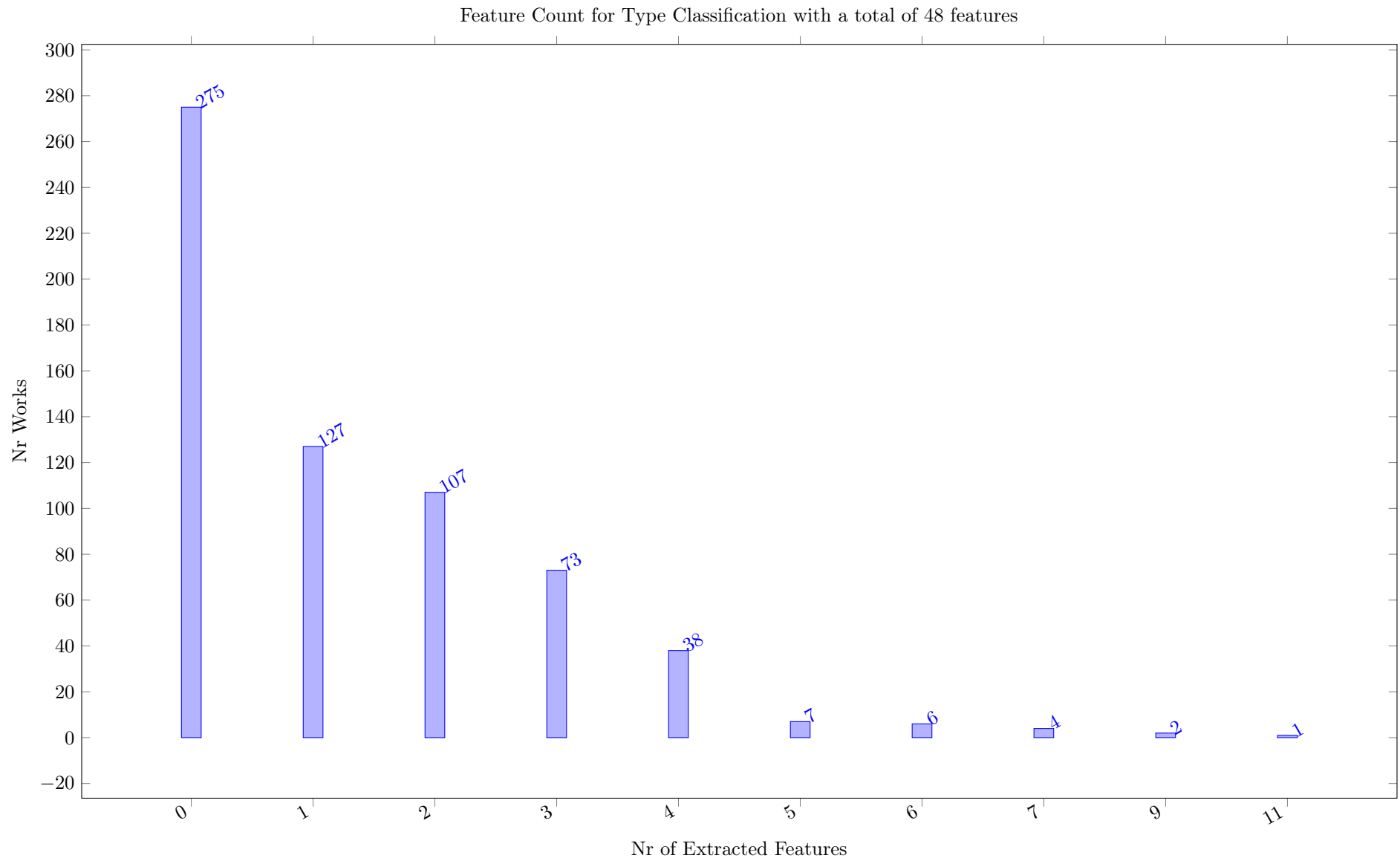


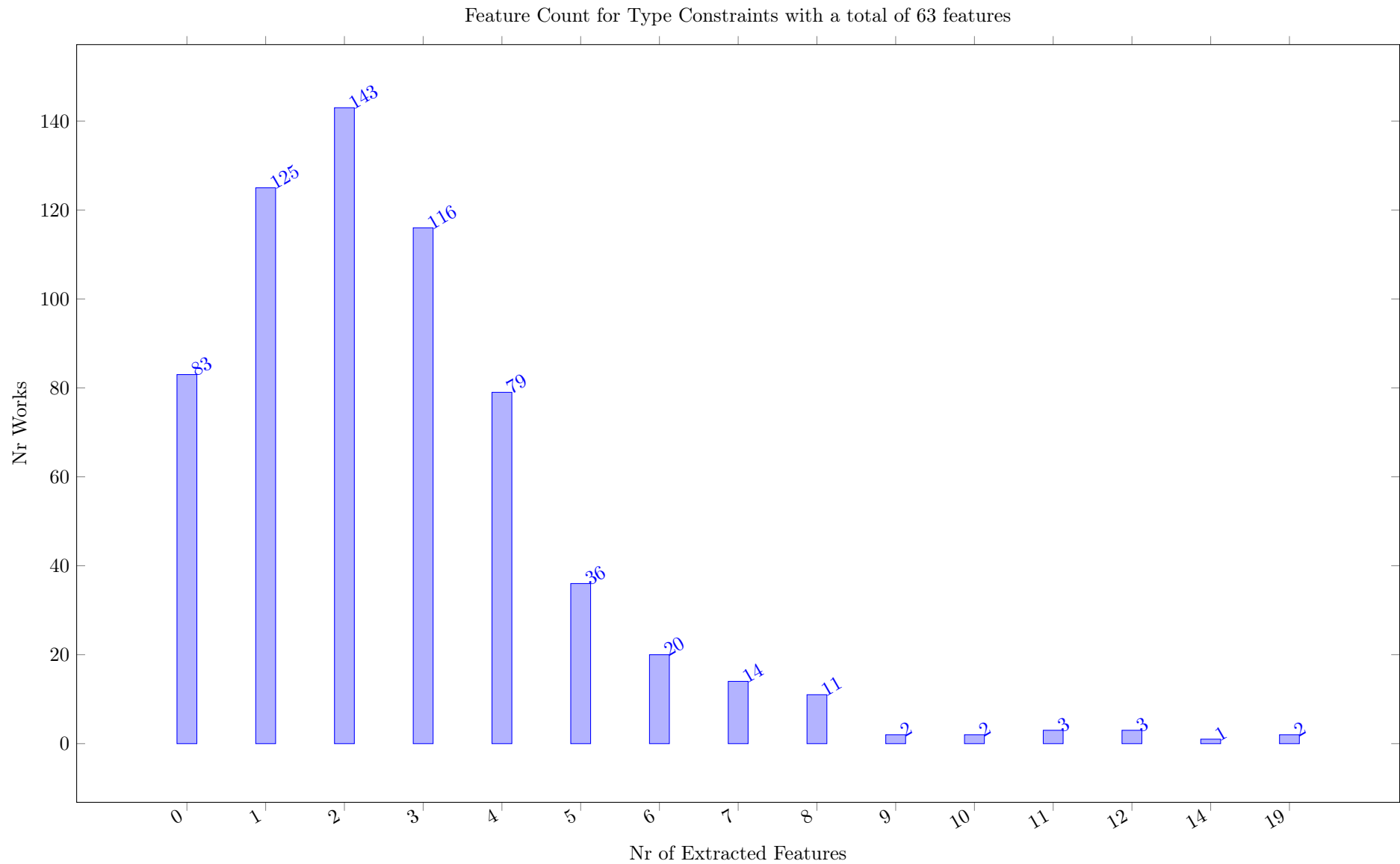
8 Concept Distribution

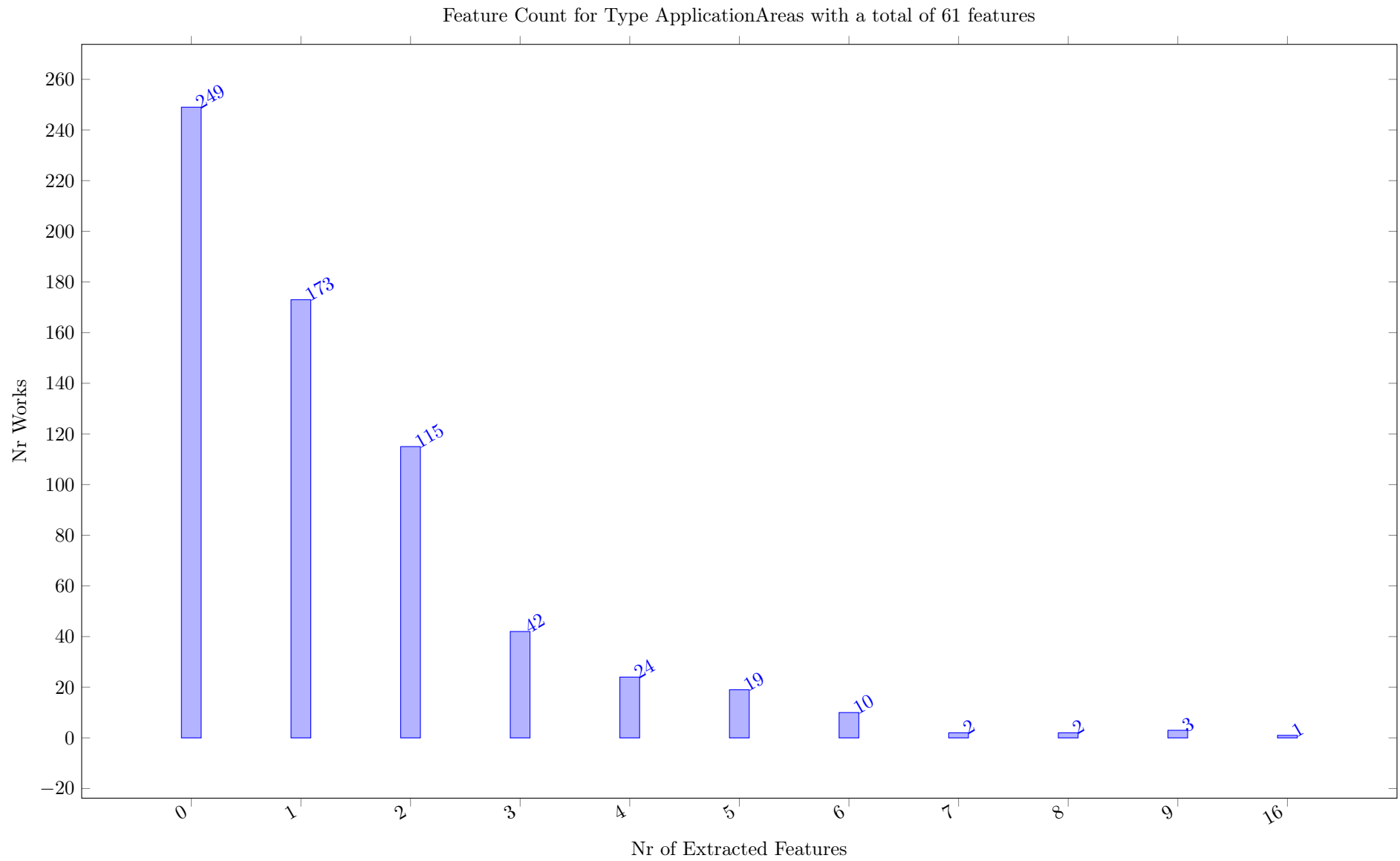
For each concept type, we count how many features are extracted by the individual works that do have a local copy, e.g. for which we can extract features. We can compare the number of features extracted to the number of concepts of a given type, which is stated in the title of the diagram.

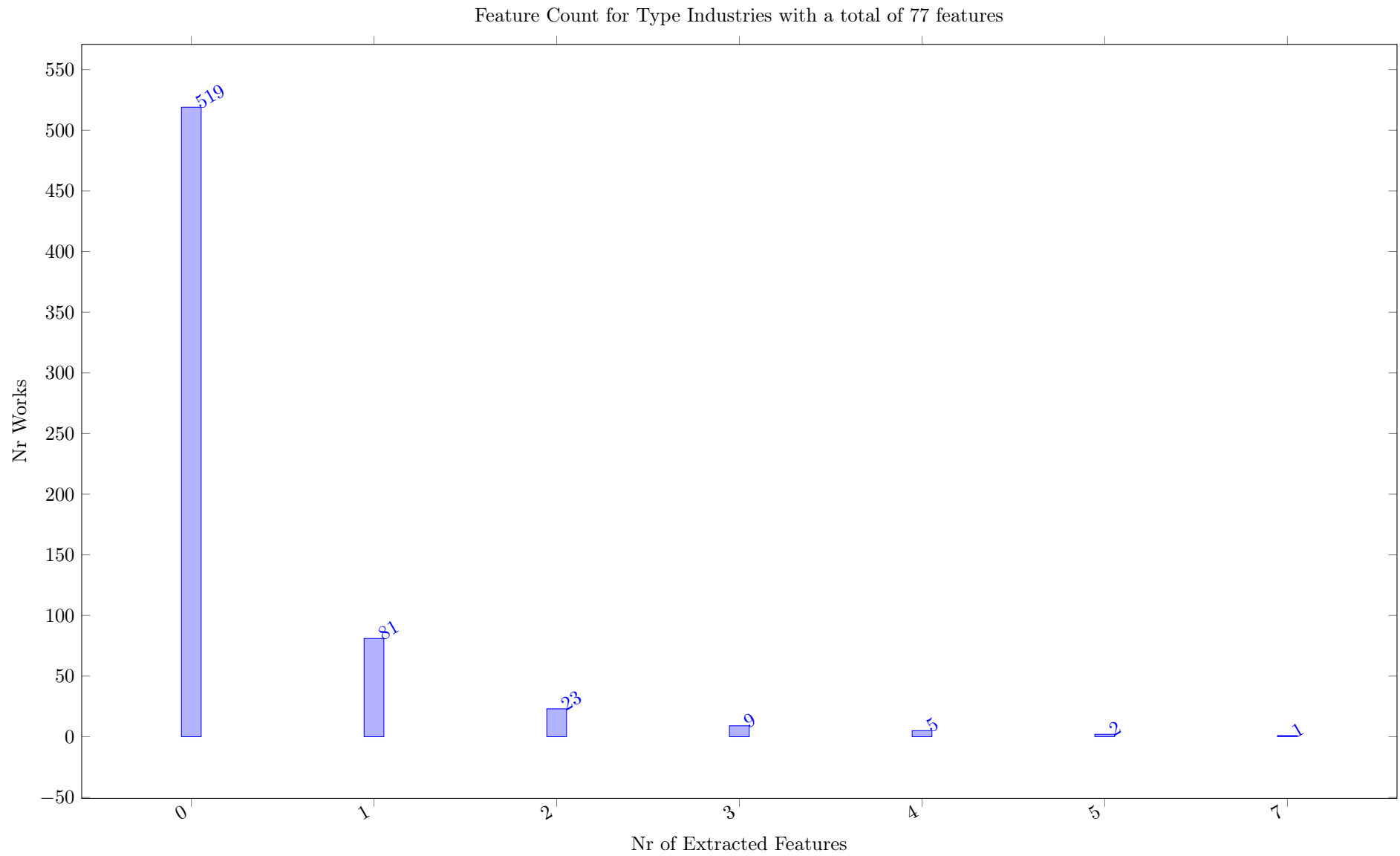
A high count indicates that a work covers many of the concepts of the given type, a low count might mean that our ontology does not have relevant concepts for that work.

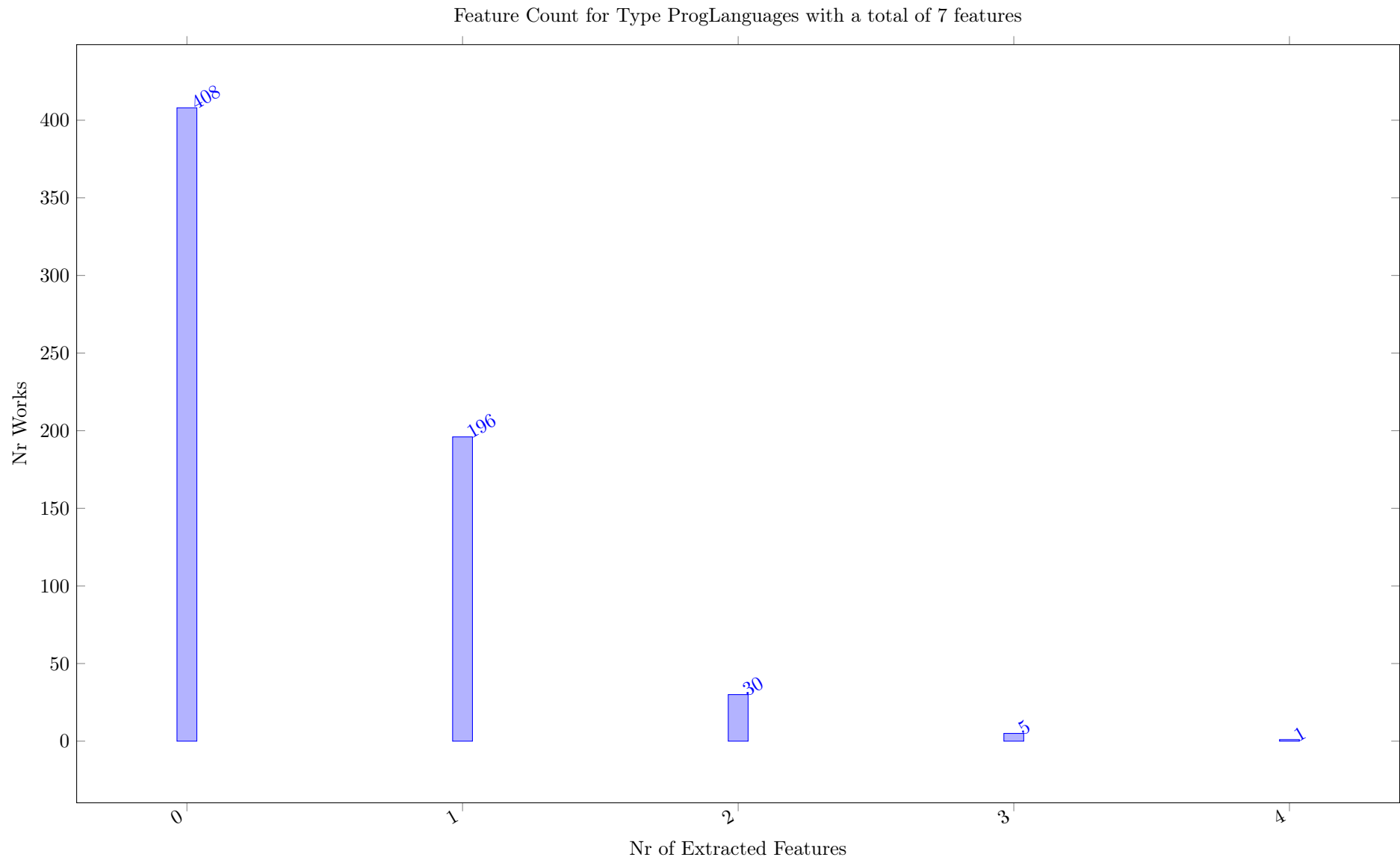


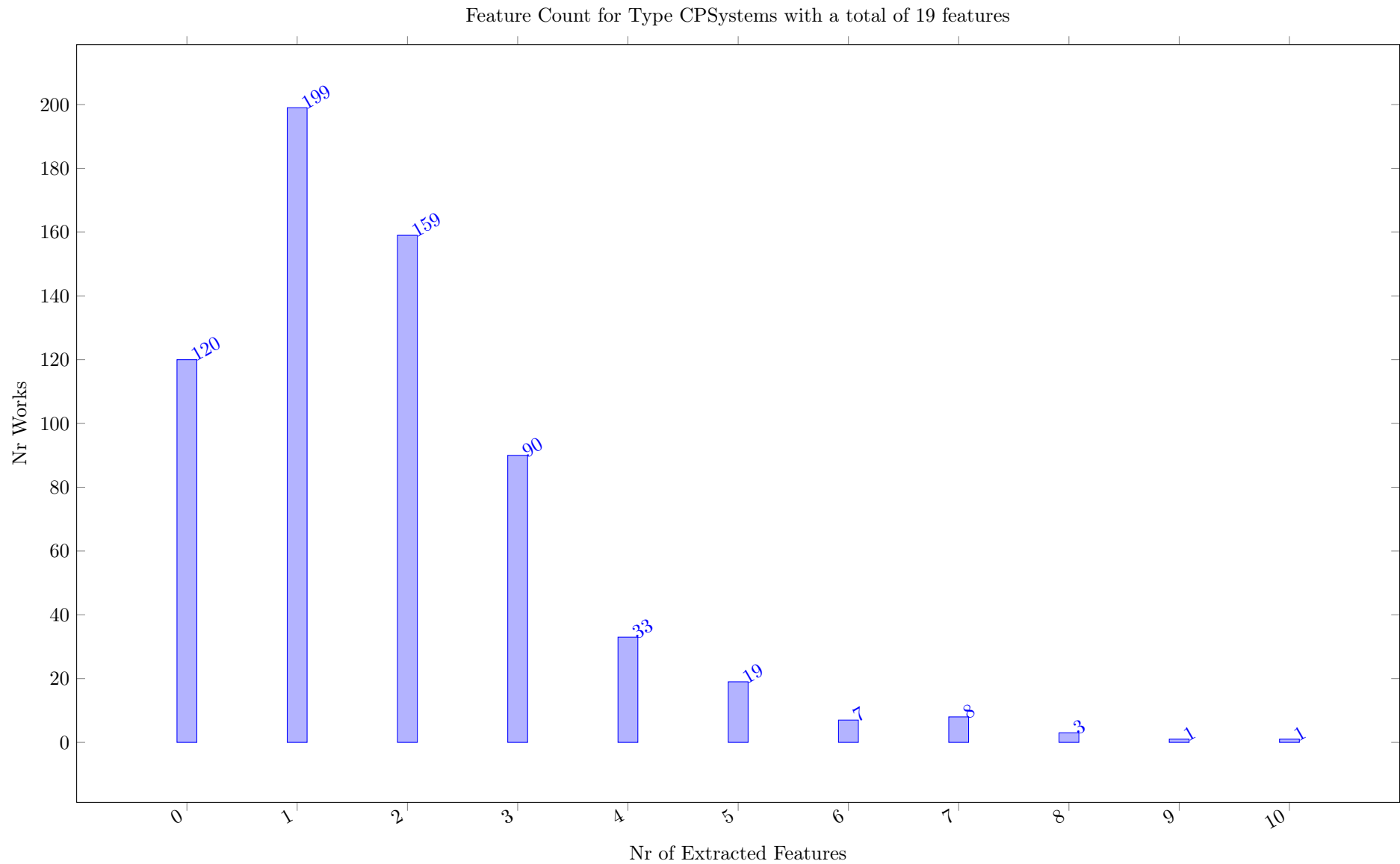


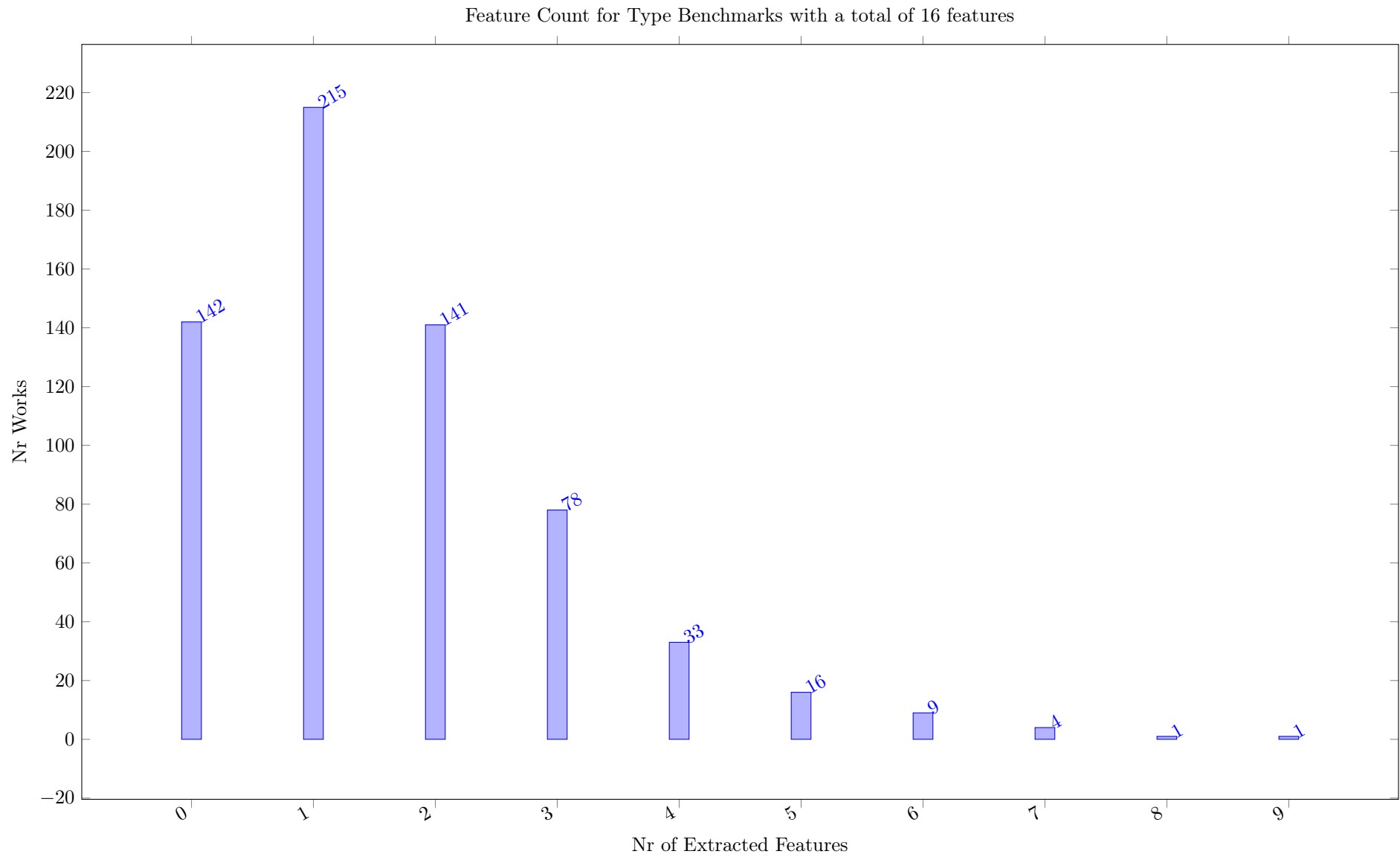


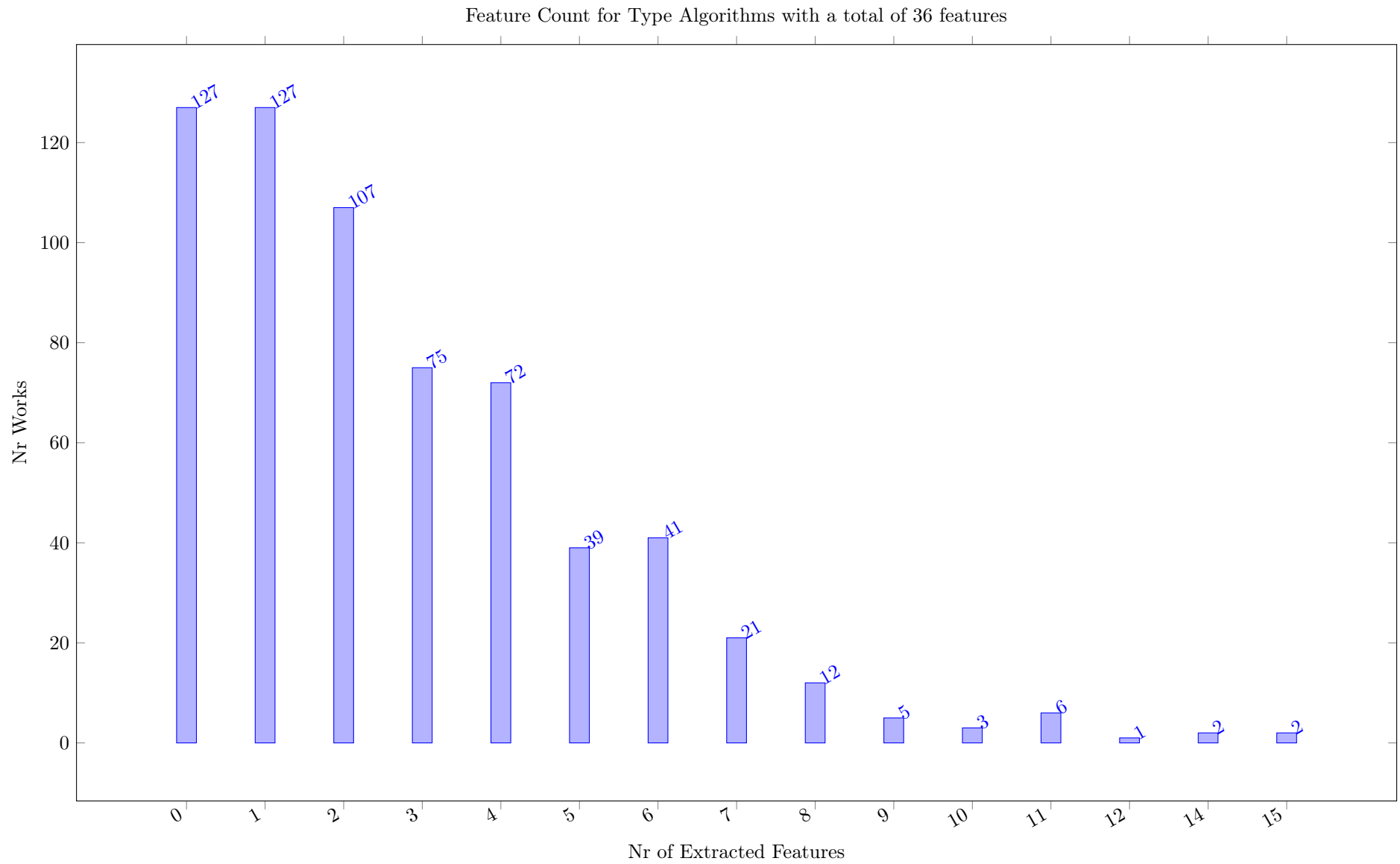










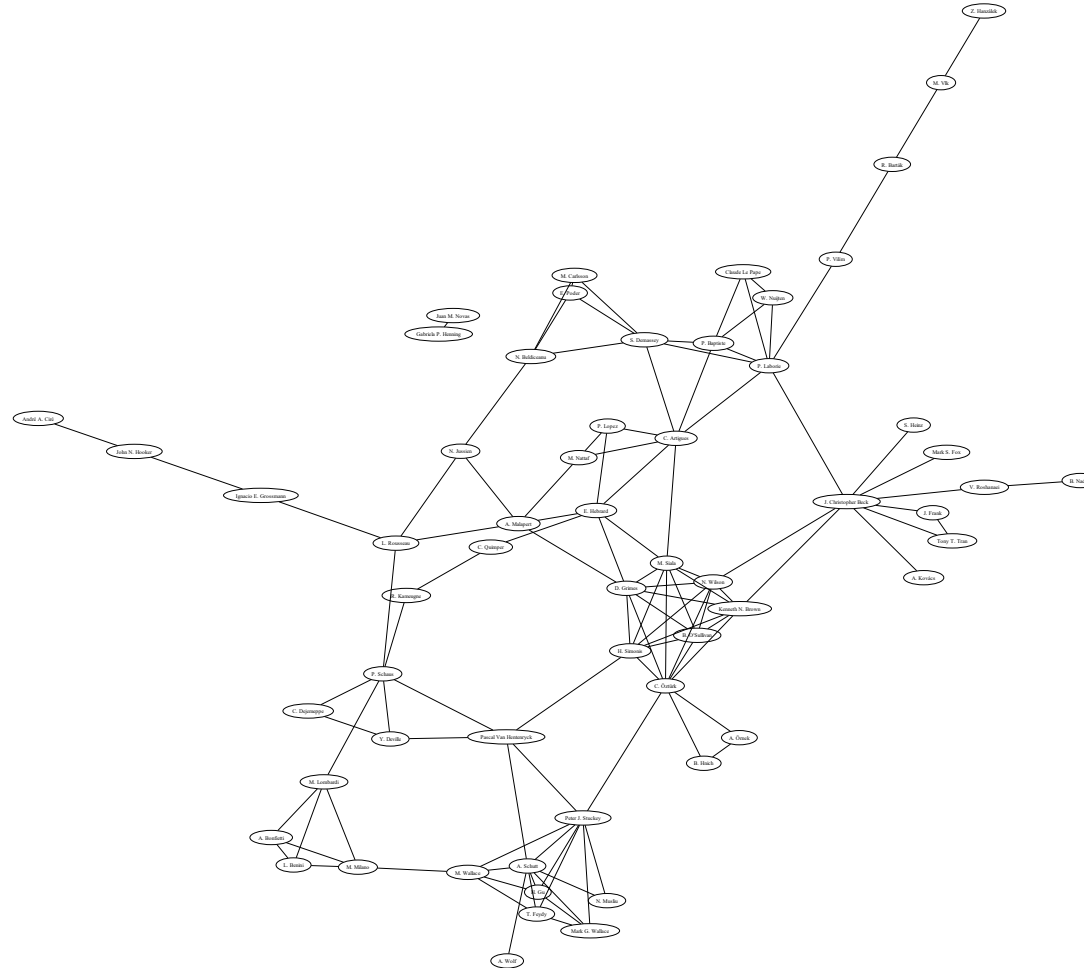


9 Coauthor graph

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 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 any 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 with the data sources currently used.

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)



10 OpenCitations vs. Crossref Data

