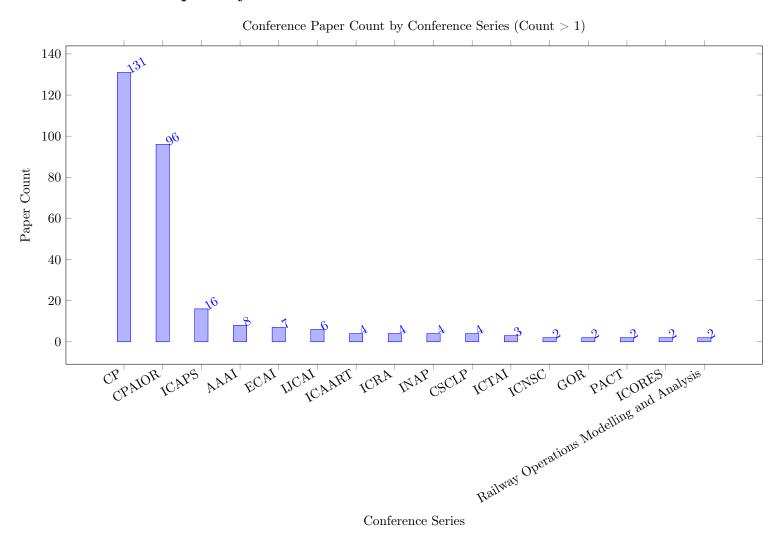
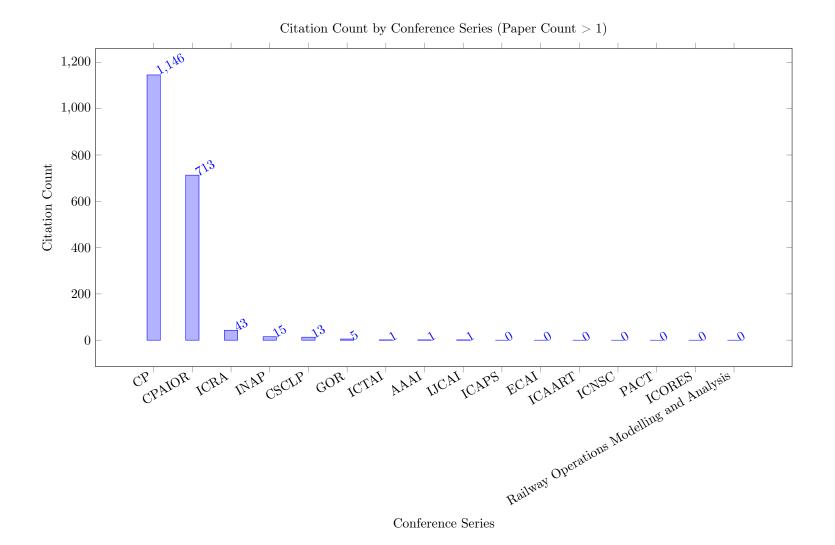
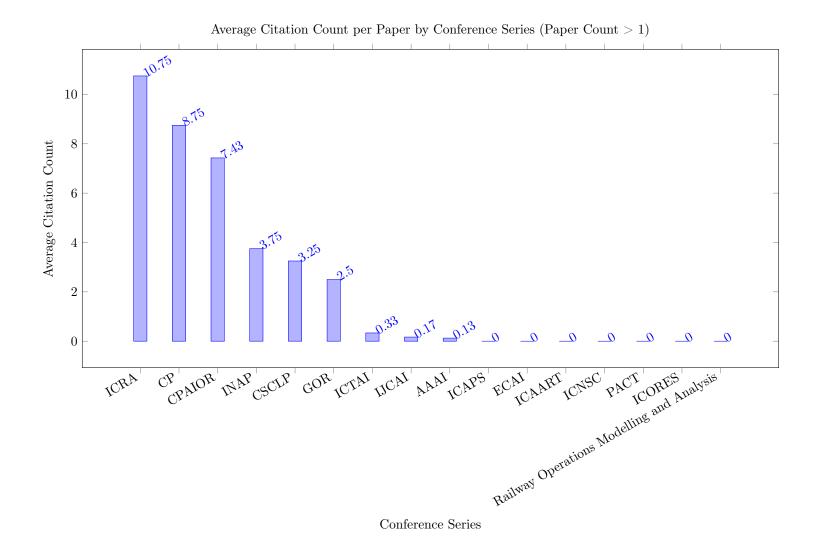
Publication Report

Helmut Simonis and Cemalettin Öztürk Report Generated on April 18, 2024

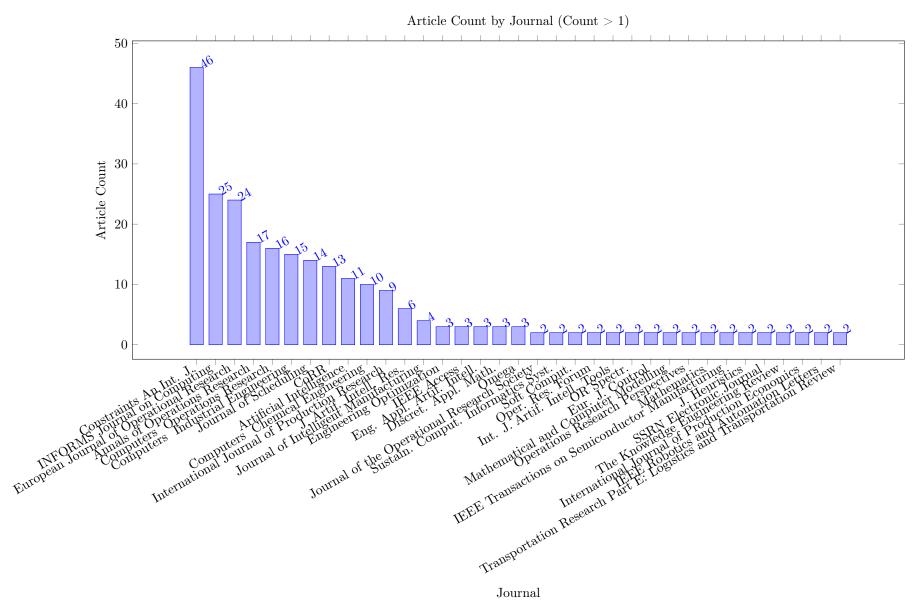
1 Conference Papers by Most Common Conference Series

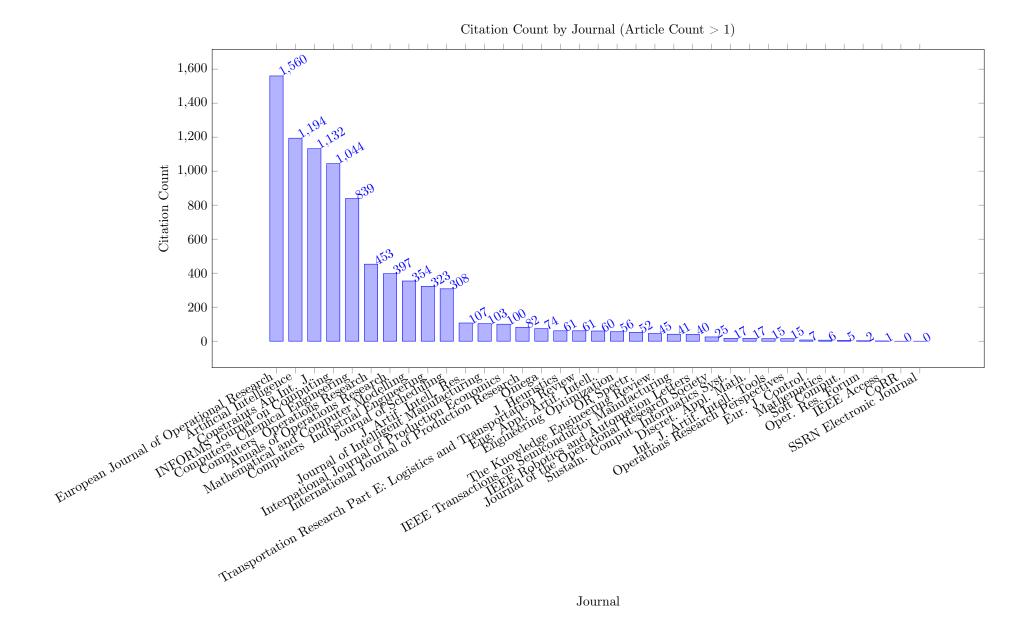


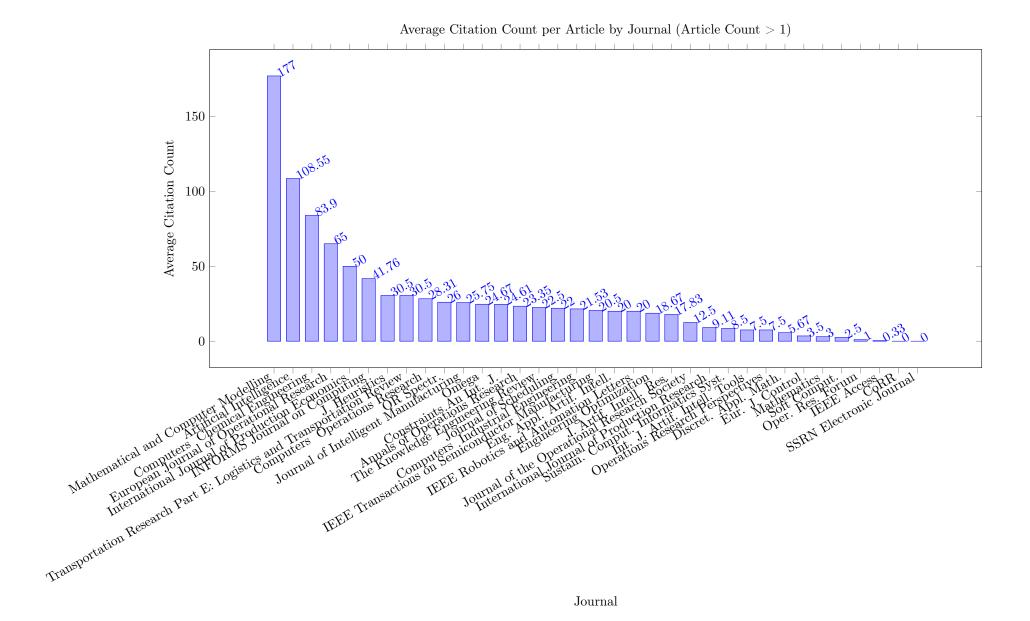




2 Journal Articles by Most Common Journals

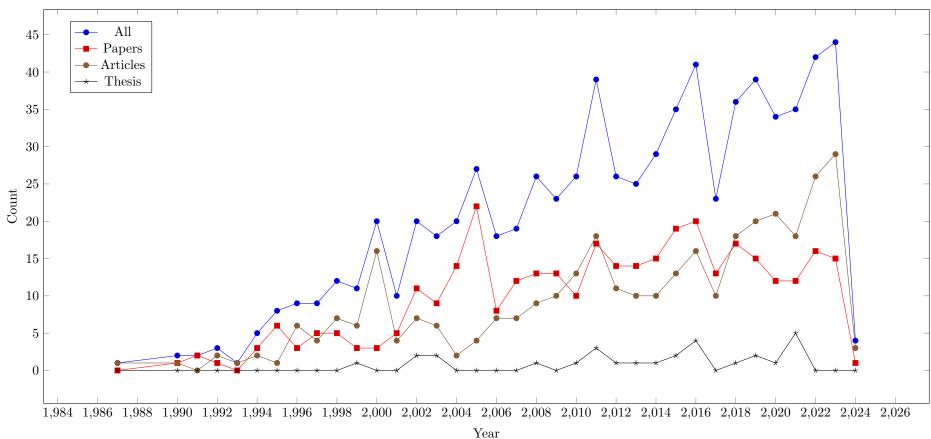




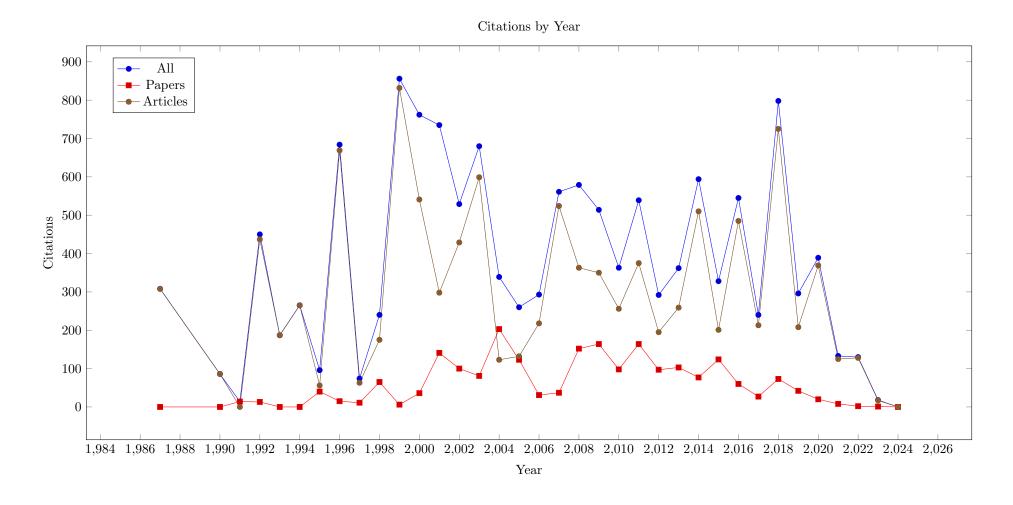


3 Works by Year

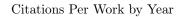


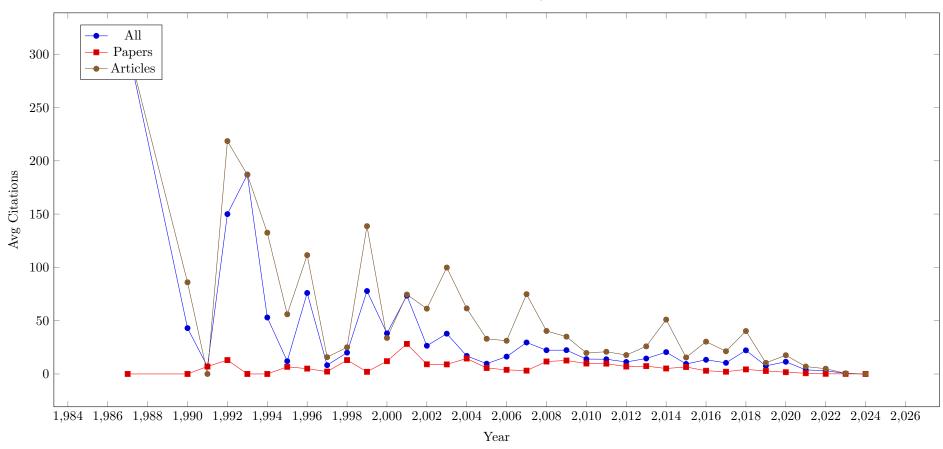


Section 3 WORKS BY YEAR 9

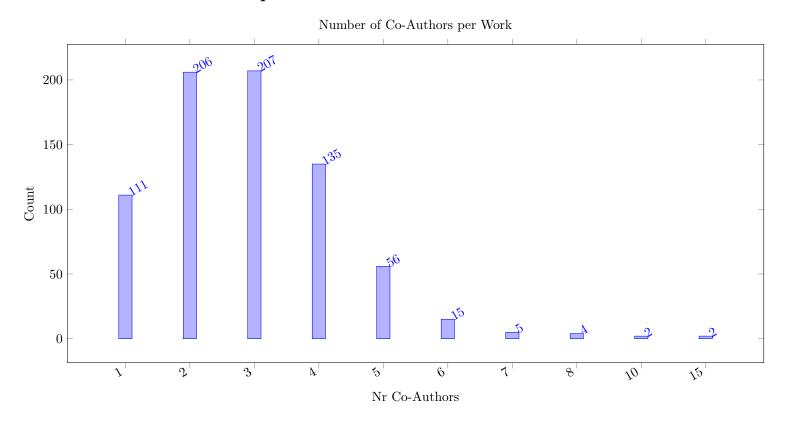


Section 3 WORKS BY YEAR 10

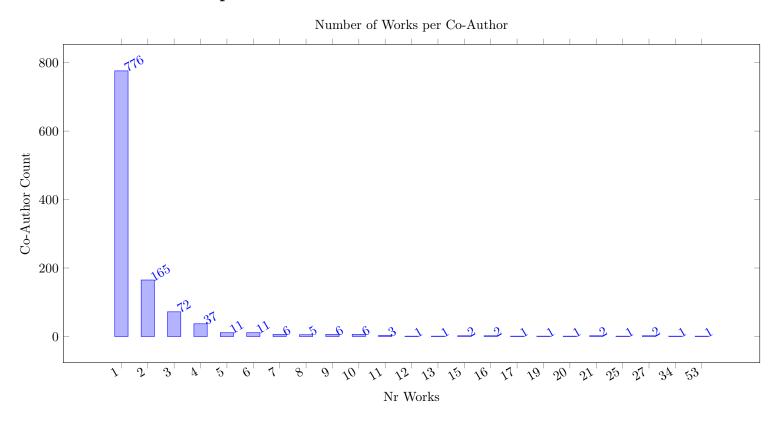




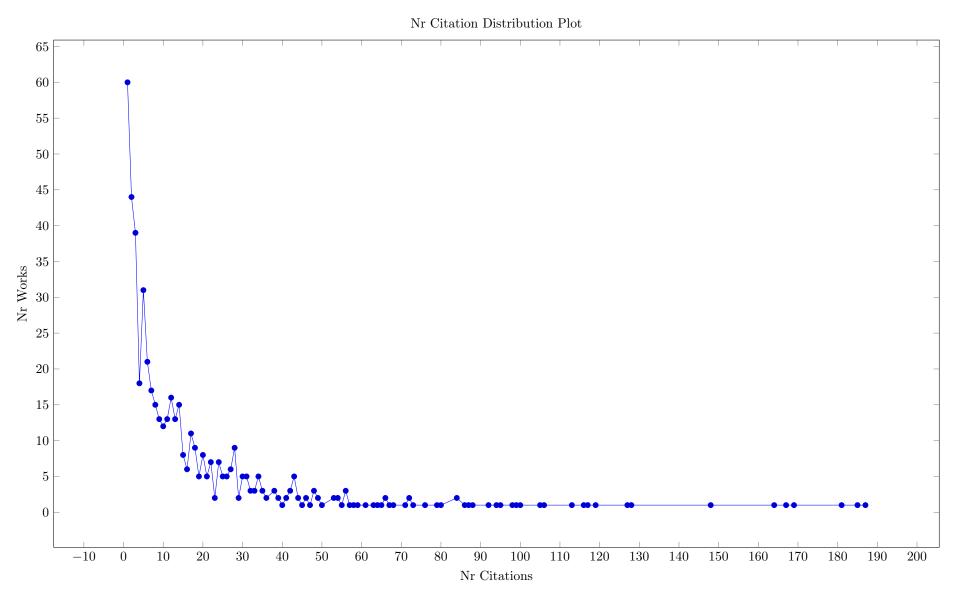
4 Number of Coauthors per Work



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 values 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.

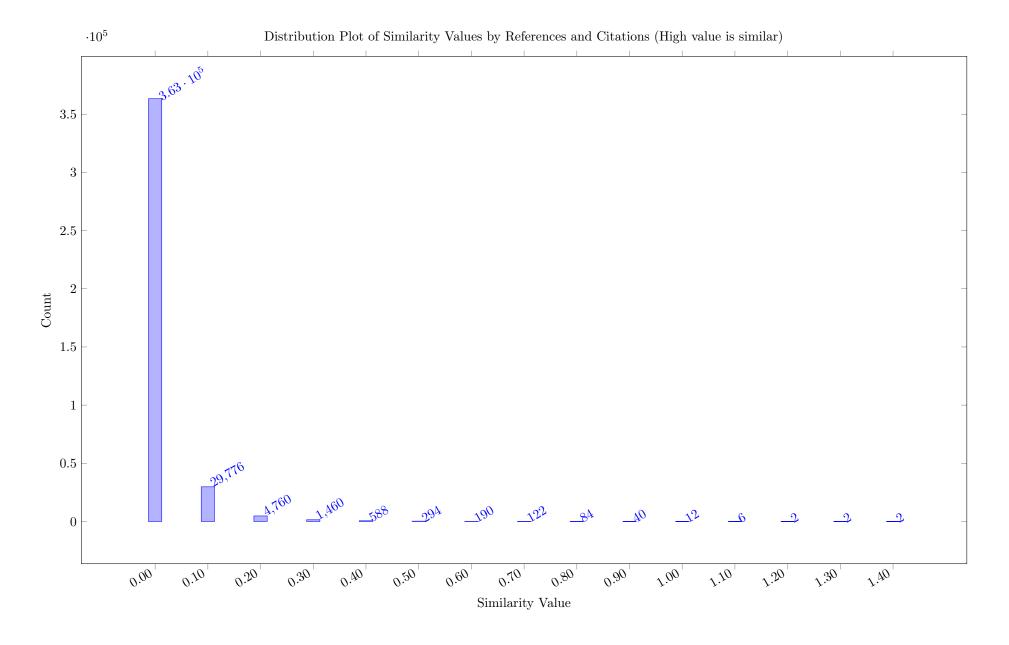
We observe that high values of this similarity are often found for two works by the same authors that are close in time, where we assumes that the bibliography is based on the same literature survey.

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

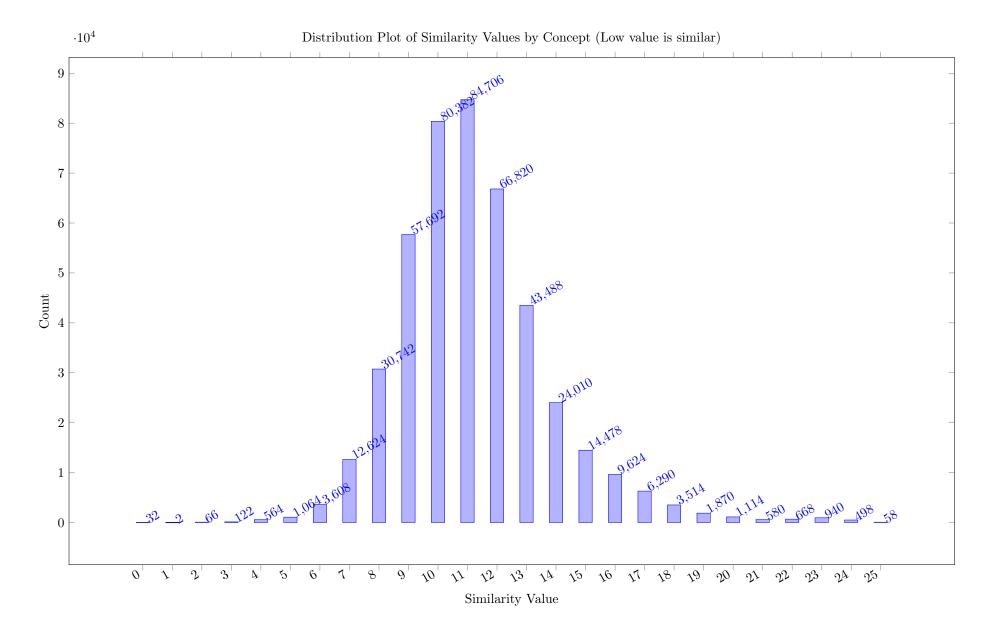
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Colombani96	22,284	105	0	267	0	0	95	0	0	63	0	0	0	0	467	143	118	105	0	0	0	0	256	20,665
SadykovW06 21,762 100 341 125 100 279 91 267 148 61 200 161 258 186 154 133 111 100 171 111 95 200 182 18,188 DorndorfHP99 21,537 59 0 133 0 0 56 0 0 0 85 0 0 0 0 148 69 63 59 0 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	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
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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	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
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	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)

	Table 2: Similarity Measure based on Extracted Concepts (low = similar)																								
$rac{ ext{From}/ ext{To}}{ ext{Total}}$	Total	15,522 Petropoulos23	08F'71 08 ZarandiASC20	12,847 Groleaz21	12,5 Pejemeppe16	5.002 2.002 2.002	2005 Malapert 11	11,589 11,589	. Funardi20	Siala15a	981''11 9 Lombardi10	8 Godet21a	056'01 056'01	068 0 LaborieRSV18	8 Siala15	1099'01 P09'01 P09'01	9 LacknerMMWW23	10,411 Temos21	8 Schutt11	Pahimi16	E KoehlerBFFHPSSS21	908,01	150,000 HartmannB10	1 GF0'01 4 HarjunkoskiMBC14	L HartmannB22
Petropoulos23	15,522	0	21	23	24	25	25	22	23	25	22	23	21	22	25	23	24	20	24	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 22	19 20	17	17 22	$0 \\ 21$	21	18	18 22	18	17 20	17	18	18 21	18 20	19	20	15 20	14	19	18	18	18	19
Froger16	11,589	22			21			0	18		19		18	20	19		19	17		19	20	18	19 17	17	17 17
Lunardi20 Siala15a	11,261 $11,250$	23 25	18 24	16 20	17 19	19 19	18 18	18 22	19	19	19 19	18 17	14 19	17 19	5	15 18	17 19	18 19	18 17	18 17	18 18	13 19	19	16 19	20
Lombardi10	11,186	23	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	19	18	17	16	17	19	18	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	18	17	0	19	18	16	17	17	16	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
KoehlerBFFHPSSS21 IsikYA23	1 10,334 10,306	23 23	23 18	20 17	19 17	20 18	19 18	20 18	18 13	18 19	19 18	17 18	18 15	17 17	17 19	17 14	16 15	16 17	18 18	18 18	17	17	19 16	17 17	19 15
HartmannB10	10,071	21	18	17	16	16	18	19	17	19	15	17	16	17	18	17	17	17	15	16	19	16	0	16	10
HarjunkoskiMBC14	10,045	21	20	18	19	19	18	17	16	19	16	19	15	15	18	17	17	16	18	17	17	17	16	0	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	19	19	17	19	15	19	19	18	17	17	18	17	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	17	16	15	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 Beck99	9,485 $9,400$	24 22	20 20	18 18	19 16	18 16	18 16	19 18	15 17	18 18	18 14	18 17	16 14	17 16	18 17	13 17	16 17	17 16	17 14	17 14	17 16	13 15	16 14	16 15	16 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	17	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	17	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 23	22 22	18 19	19	17	17	18	17	17	17	17	17	17	16	16 17	16	17	16 12	16	17	15 17	15	17	16
Caballero19 Zahout21	9,055 $9,052$	23	20	19	18 18	17 18	18 18	19 18	18 16	16 18	15 16	14 16	17 16	17 17	16 18	17	17 16	17 15	16	15 17	17 17	17	15 15	17 16	15 14
Seemingan 714 SIMII	,	Y M25			19	17	16	19	19	17	16	16	17	17	16	17	18	17	13	13	18	18	1716	18	17
MullerMKP22	9,000	Y 1V1 4 9 <i>1</i> 22	15 O 181 20	18 18	19	19	18	18	15	18	18	16	16	16	17	16	15	16	17	16	14	15	16	15	17
BartakSR10	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
JuvinHHL23	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
YuraszeckMPV22	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
SacramentoSP20	8,934	22	21	17	18	19	18	16	14	18	17	17	15	15	18	14	15	15	16	16	16	14	15	15	15



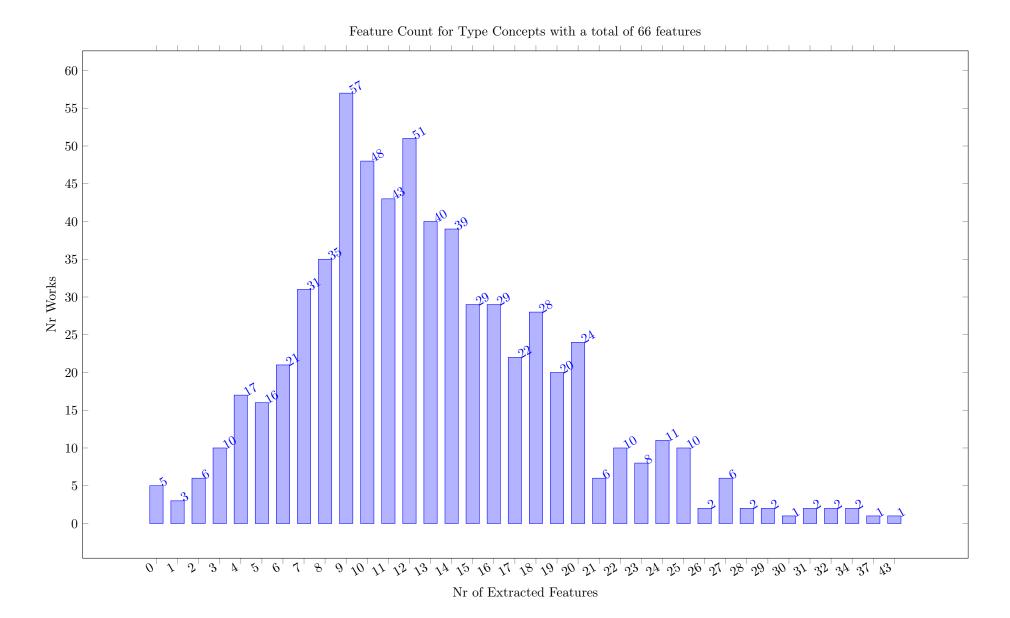
The similarity by concept uses the Euclidean distance between the feature vectors for two works. We translate the MatchLevel for each Concept into a linear scale, and then calculate the distances as the square root of the sum of squared differences for each feature. The distribution plot below rounds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

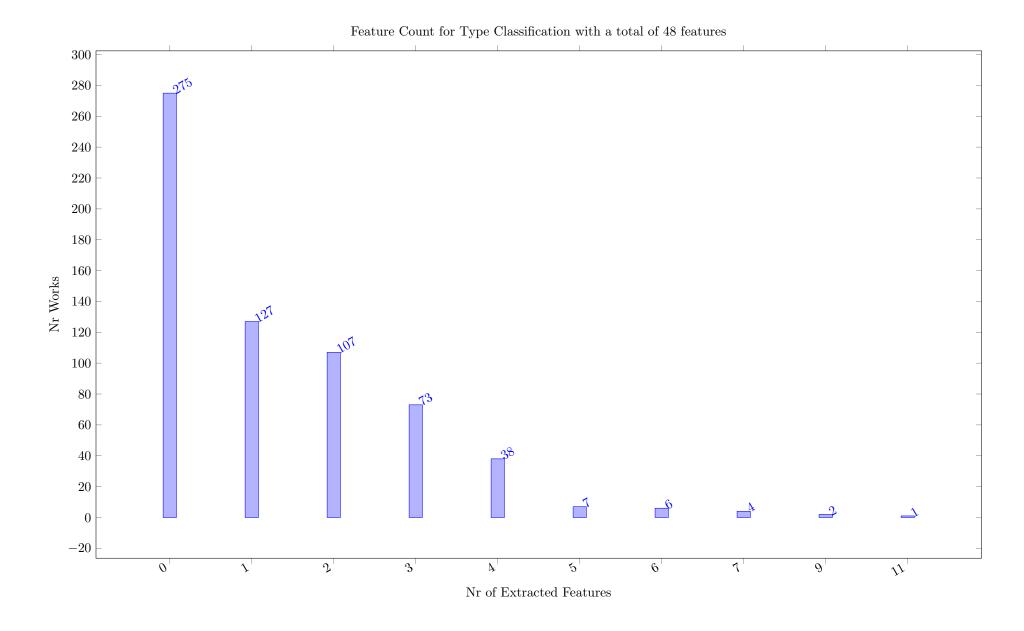


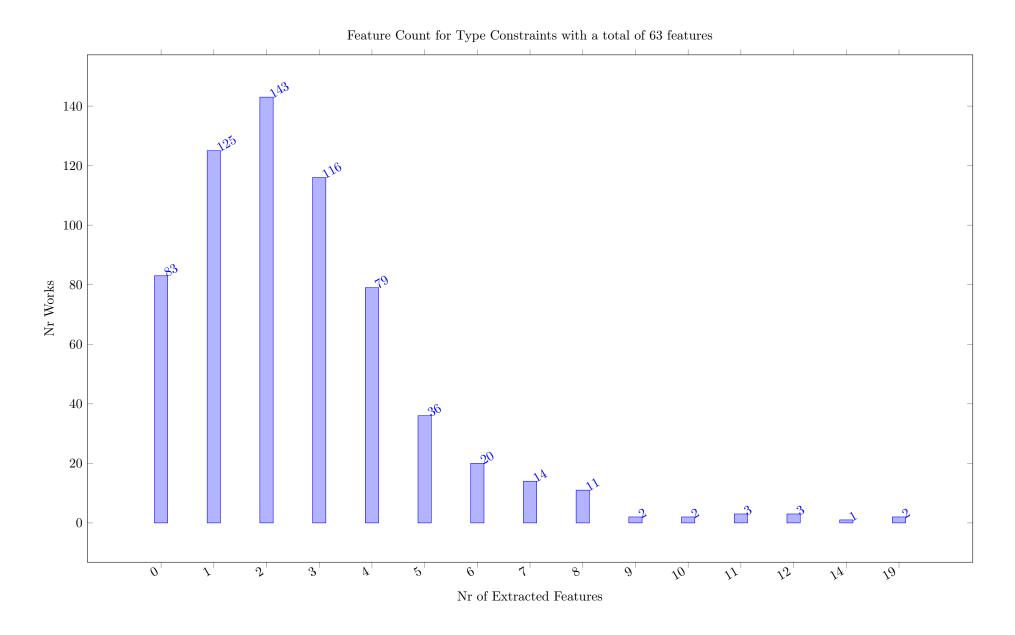
8 Concept Distribution

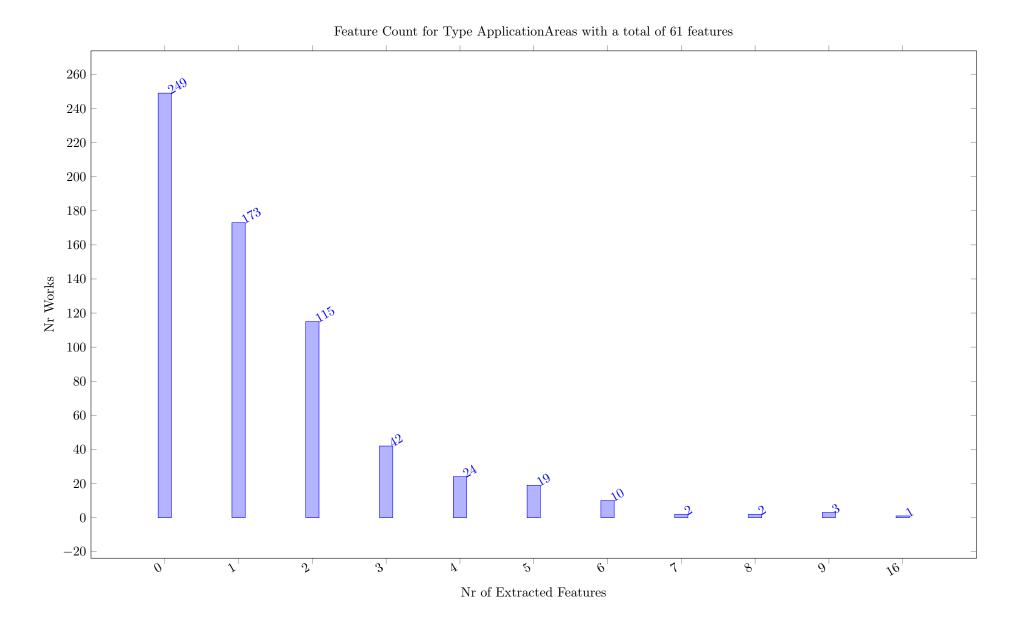
For each concept type, we count how many features are extracted by the individual works that do have a local copy, e.g. for which we can extract features. We can compare the number of features extracted to the number of concepts of a given type, which is stated in the title of the diagram.

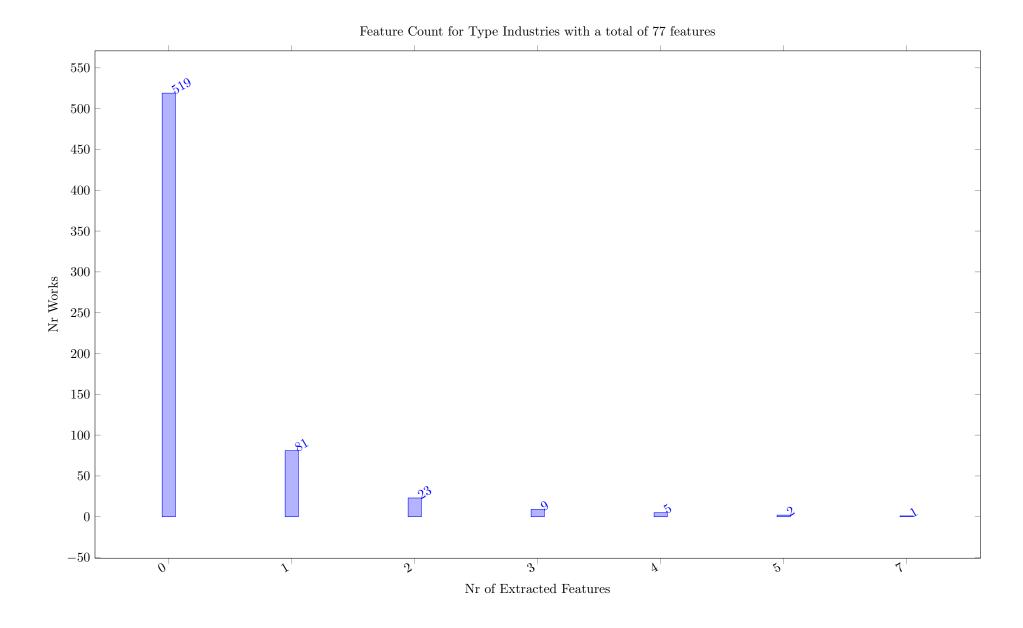
A high count indicates that a work covers many of the concepts of the given type, a low count might mean that our ontology does not have relevant concepts for that work.

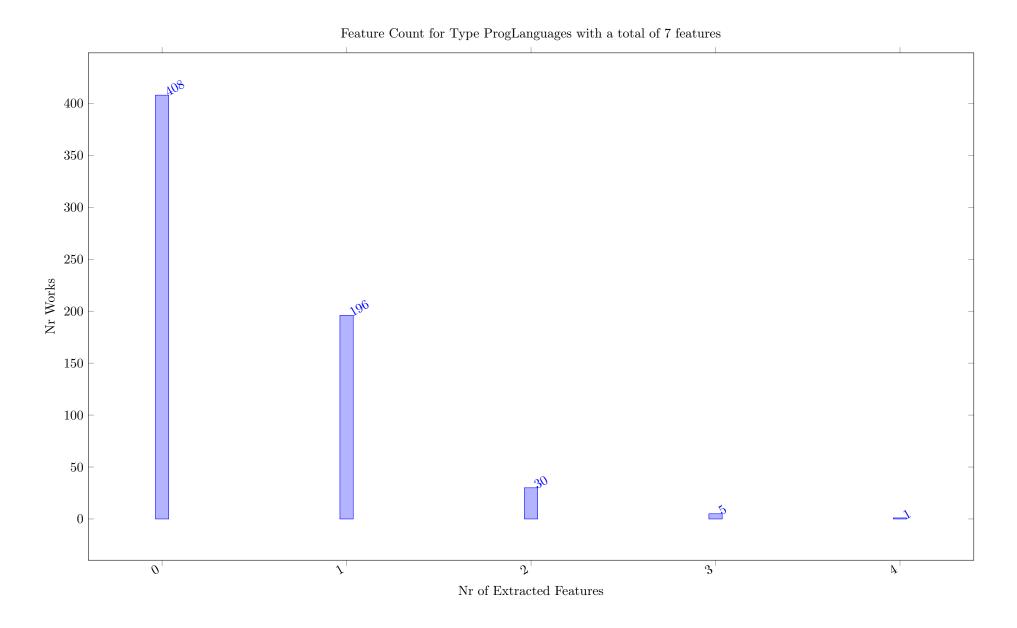


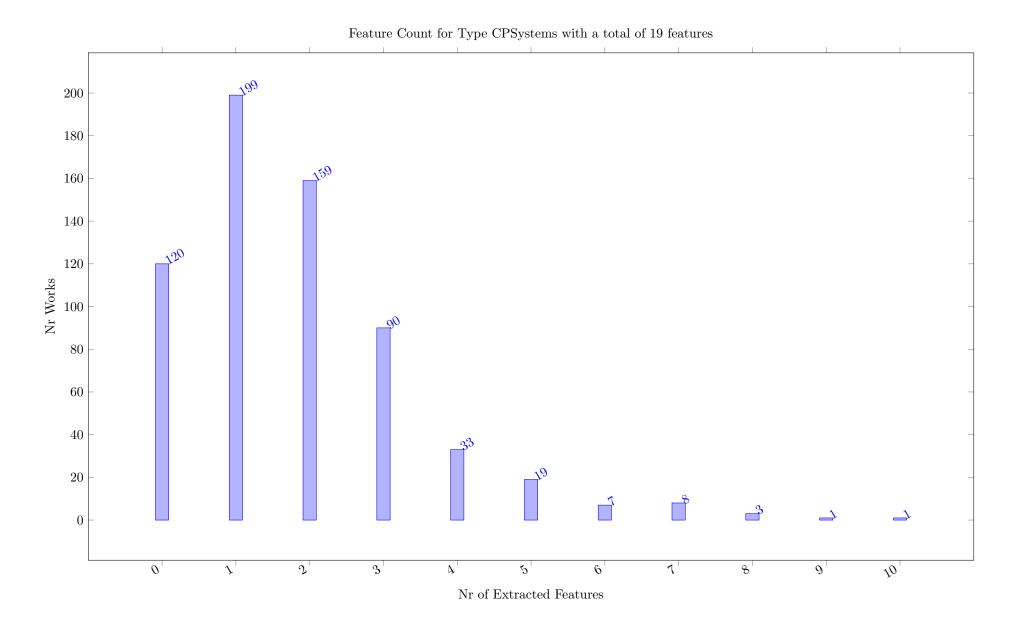


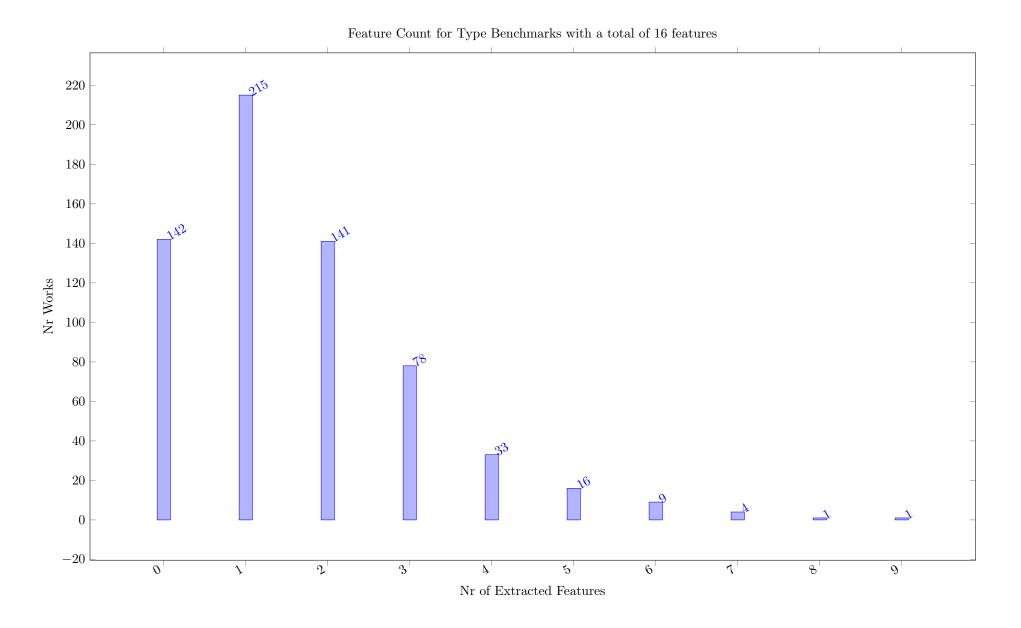


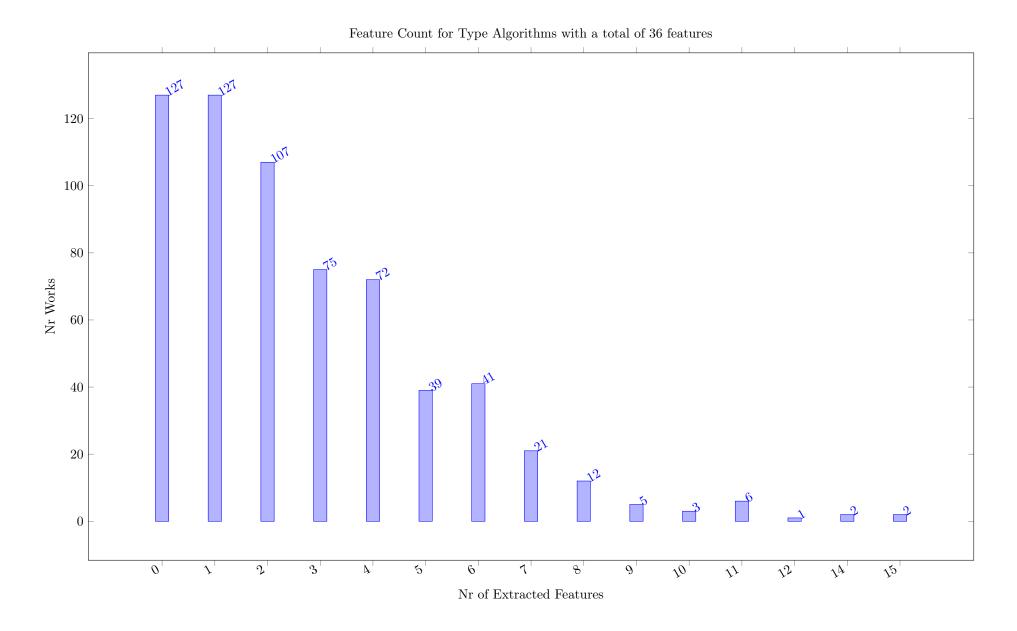












9 Coauthor graph

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.

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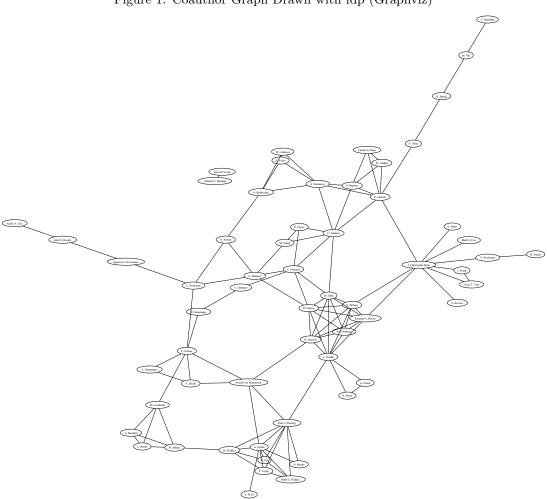


Figure 1: Coauthor Graph Drawn with fdp (Graphviz)

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10 OpenCitations vs. Crossref Data

