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IRF Report 2010-00004
Date: 2010-08-20

CLEF-IP 2010: Classification Task Evaluation Summary

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ABSTRACT: This report presents the detailed evaluation measures done in the frame of the CLEF-IP 2010 benchmarking activity, Classification Task.

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1 Introduction

In 2010, CLEF–IP[1] included two tasks: The Prior Art Candidate Search task (PAC) and the Classification task (CLS). Participants in the PAC task were asked to return documents in the corpus that could constitute prior art for a given topic patent. Participants in the CLS task were given patent documents that had to be classified using the IPC[2] codes. This paper presents the evaluation results on the CLS submissions.

7 teams, alphabetically presented in Table 1, have submitted runs to the Classification task (CLS). In total, we received 27 runs.

For each of the experiments we used `trec_eval` version 9.0 to compute the following measures:

- Precision@1, Precision@5, Precision@10, Precision@25, Precision@50
- Recall@5, Recall@25, Recall@50,
- MAP
- F_1 at 5, 25 and 50.

All evaluations were made such that topics for which no relevant results were retrieved, contributed 0 to the average measure. All the precision and recall values were computed with the `set_P` and `set_recall trec_eval` measures.

The computations were made for four sets of topics: The complete set of classification topics, and three language–based topic subsets. Out of the 2000 classification topics, there are 1470 topics with English as the document language, 408 with German as the document language, and 122 topics with French as the document language.

Table 1: List of participants and runs submitted to the CLS task

ID	Institution		Runs
bitem	BiTeM, Service of Medical Informatics, Geneva University Hospitals	CH	7
humb	Humboldt Univ. - Dept. of German Language and Linguistics	DE	1
insa	LCI – Institut National des Sciences Appliques de Lyon	FR	5
jve	Industrial Property Documentation Department, JSI Jouve	FR	3
run	Information Foraging Lab, Radboud University Nijmegen	NL	2
spq	Spinque	NL	1
ssft	Simple Shift	CH	8

2 Preprocessing Runs

The CLS task used 2,000 topics, consisting of patent documents where the classification information was removed. The relevance assessment files are obtained by extracting the IPC codes from the original patent documents the topics originated from. The topics have, in average, 2.3

[1] See http://www.ir-facility.org/research/evaluation/clef-ip-10 for details
[2] See http://www.wipo.int/classifications/ipc/en/

IPC subclasses assigned to them, with the minimum of 1 assigned subclass to a topic, and a maximum of 10 assigned subclasses to a topic.

During the data analysis phase, we noticed that several participants have made use of subclasses listed in all versions of the IPC. The CLEF–IP data collection, however, contains only IPC versions made available after 2006. So prior to the evaluations, we have removed all run entries which gave as result IPC subclass codes occurring only in IPC versions prior to 2006.

The rest of this paper lists the computed measures.

3 Measurements

We show below a list of the runs that are part of the evaluation. Table 2 shows the average, the minimum, and the maximum number of IPC subclasses assigned to a topic by the participants. The last column shows the number of topics that were processed by the participants. All entries in all tables are alphabetically ordered by the run file names.

Table 2: List of run files

	Run file name	**Average**	**Min**	**Max**	**Topics treated**
1	bitem_FREQ_Run1_CLS	19.50	1	63	2000
2	bitem_FREQ_Run2_CLS	15.40	1	49	2000
3	bitem_FREQ_Run3_CLS	16.05	1	51	2000
4	bitem_LIST_MULTI_Run1_CLS	57.80	6	130	2000
5	bitem_LIST_MULTI_Run2_CLS	40.78	3	117	2000
6	bitem_MULTI_Run1_CLS	46.45	3	112	2000
7	bitem_MULTI_Run2_CLS	31.62	1	99	2000
8	humb_patatras_run1_CLS	684.00	684	684	1993
9	insa_WinnowRun1_CLS	636.00	636	636	2000
10	insa_WinnowRun2_CLS	631.00	631	631	2000
11	insa_WinnowRun3_CLS	636.00	636	636	2000
12	insa_WinnowRun4_CLS	636.00	636	636	2000
13	insa_WinnowRun5_CLS	635.00	635	635	2000
14	jve_comb_Run3_CLS	4.50	3	6	2000
15	jve_sem_Run1_CLS	20.00	20	20	2000
16	jve_sim_Run2_CLS	17.07	2	20	2000
17	run_abstractsBOW_Run1_CLS	629.00	629	629	2000
18	run_abstractsBOWT_Run1_CLS	629.00	629	629	2000
19	spq_bm25_Run1_CLS_2000	999.88	877	1000	2000
20	ssft_C0_run1_CLS	616.00	616	616	2000
21	ssft_C4500_run2_CLS	616.00	616	616	2000
22	ssft_CC0_run5_CLS	616.00	616	616	2000
23	ssft_CC4500_run6_CLS	616.00	616	616	2000
24	ssft_CE0_run3_CLS	616.00	616	616	2000
25	ssft_CE6800_run4_CLS	616.00	616	616	2000
26	ssft_CEC0_run7_CLS	616.00	616	616	2000
27	ssft_CEC6800_run8_CLS	616.00	616	616	2000

Table 3 presents the detailed measure values per run file for all of the 2000 classification topics. Tables 4, 5, and 6 present the detailed measure values for the three language–based topic subsets.

Table 3: Detailed measures for the CLS task

run	MAP	MAP_**50**	**P_1**	**P_5**	**P_10**	**P_25**	**P_50**	**R_5**	**R_25**	**R_50**	F_1_**5**	F_1_**25**	F_1_**50**
bitem_FREQ_Run1_CLS	0.6194	0.6193	0.633	0.3092	0.1964	0.1492	0.1466	0.6935	0.861	0.8755	0.4011	0.2351	0.2309
bitem_FREQ_Run2_CLS	0.7145	0.7145	0.751	0.3495	0.2289	0.1884	0.1874	0.7774	0.9014	0.9083	0.4522	0.2874	0.2857
bitem_FREQ_Run3_CLS	0.7195	0.7195	0.759	0.3511	0.2279	0.1855	0.1843	0.7854	0.8979	0.9073	0.455	0.2835	0.2815
bitem_LIST_MULTI_Run1_CLS	0.7259	0.7255	0.757	0.3406	0.1961	0.088	0.056	0.7856	0.9346	0.9589	0.4454	0.1563	0.1025
bitem_LIST_MULTI_Run2_CLS	0.7227	0.7225	0.7495	0.3419	0.1964	0.1017	0.0815	0.7869	0.924	0.9492	0.4469	0.175	0.1413
bitem_MULTI_Run1_CLS	0.7281	0.7278	0.7625	0.3403	0.1962	0.0923	0.066	0.7863	0.9338	0.9544	0.4454	0.1623	0.1182
bitem_MULTI_Run2_CLS	0.7216	0.7215	0.751	0.3433	0.2018	0.1204	0.1068	0.7839	0.9207	0.9422	0.4478	0.2	0.1773
humb_patatras_run1_CLS	0.5083	0.5053	0.56	0.252	0.1387	0.0572	0.0294	0.6121	0.6828	0.6993	0.3345	0.1031	0.0558
insa_WinnowRun1_CLS	0.6656	0.6634	0.781	0.2968	0.1629	0.069	0.0359	0.718	0.8021	0.8248	0.3935	0.124	0.0678
insa_WinnowRun2_CLS	0.6506	0.6486	0.758	0.2917	0.1618	0.0708	0.0371	0.7059	0.8157	0.8467	0.3868	0.127	0.0701
insa_WinnowRun3_CLS	0.6748	0.6728	0.784	0.3016	0.165	0.0704	0.0367	0.7292	0.8159	0.8426	0.4	0.1265	0.0694
insa_WinnowRun4_CLS	0.6724	0.6704	0.779	0.3036	0.166	0.0718	0.0373	0.7316	0.8268	0.8505	0.4024	0.1288	0.0704
insa_WinnowRun5_CLS	0.6808	0.6785	0.795	0.3102	0.1659	0.0692	0.0355	0.7414	0.8034	0.8194	0.4097	0.1243	0.0671
jve_comb_Run3_CLS	0.7294	0.7294	0.821	0.4064	0.4036	0.4036	0.4036	0.8174	0.819	0.819	0.504	0.5015	0.5015
jve_sem_Run1_CLS	0.6595	0.6595	0.751	0.2971	0.1705	0.0987	0.0987	0.7254	0.89	0.89	0.3955	0.1724	0.1724
jve_sim_Run2_CLS	0.7458	0.7458	0.7755	0.3538	0.2089	0.1438	0.1438	0.8123	0.9367	0.9367	0.4626	0.2364	0.2364
run_abstractsBOW_Run1_CLS	0.6648	0.6631	0.7	0.3182	0.1787	0.0777	0.0406	0.7371	0.8644	0.8973	0.4167	0.1389	0.0766
run_abstractsBOWT_Run1_CLS	0.6846	0.6828	0.7185	0.3259	0.1833	0.0797	0.0415	0.7597	0.883	0.9147	0.4276	0.1425	0.0783
spq_bm25_Run1_CLS_2000	0.4748	0.4731	0.4475	0.2389	0.1549	0.0762	0.043	0.5536	0.8429	0.9238	0.3125	0.1362	0.0809
ssft_C0_run1_CLS	0.7869	0.786	0.8335	0.3622	0.2003	0.0849	0.0435	0.847	0.941	0.9573	0.4762	0.1518	0.082
ssft_C4500_run2_CLS	0.7782	0.7771	0.819	0.3589	0.1978	0.0841	0.0435	0.839	0.9356	0.9573	0.4718	0.1505	0.082
ssft_CC0_run5_CLS	0.7916	0.7908	0.8355	0.3657	0.2008	0.0849	0.0435	0.8495	0.9413	0.9576	0.4797	0.1518	0.082
ssft_CC4500_run6_CLS	0.7866	0.7856	0.8305	0.3617	0.1992	0.0844	0.0434	0.845	0.9375	0.9554	0.4755	0.151	0.0818
ssft_CE0_run3_CLS	0.791	0.7902	0.8335	0.3658	0.2007	0.085	0.0436	0.8541	0.9427	0.961	0.4808	0.152	0.0823
ssft_CE6800_run4_CLS	0.7861	0.7852	0.83	0.3624	0.1993	0.0851	0.0437	0.846	0.944	0.9614	0.4762	0.1522	0.0824
ssft_CEC0_run7_CLS	0.7951	0.7943	0.835	0.3662	0.2026	0.0853	0.0436	0.8531	0.9464	0.9601	0.4811	0.1525	0.0822
ssft_CEC6800_run8_CLS	0.7934	0.7924	0.835	0.3633	0.2008	0.0847	0.0435	0.8481	0.9396	0.9577	0.4776	0.1515	0.0821
run	MAP	MAP_**50**	**P_1**	**P_5**	**P_10**	**P_25**	**P_50**	**R_5**	**R_25**	**R_50**	F_1_**5**	F_1_**25**	F_1_**50**

Table 4: Detailed measures for the CLS task, English topics

run	MAP	MAP_50	P_1	P_5	P_10	P_25	P_50	R_5	R_25	R_50	F_1_5	F_1_25	F_1_50
bitem_FREQ_Run1_CLS	0.6763	0.6763	0.7061	0.3468	0.2223	0.1735	0.1713	0.7427	0.8994	0.9111	0.4442	0.269	0.2657
bitem_FREQ_Run2_CLS	0.7549	0.7549	0.8	0.3817	0.2534	0.2134	0.2124	0.8088	0.9236	0.9277	0.4873	0.3206	0.3191
bitem_FREQ_Run3_CLS	0.7571	0.7571	0.8054	0.3828	0.2535	0.2127	0.2119	0.8135	0.9242	0.9299	0.489	0.3203	0.3191
bitem_LIST_MULTI_Run1_CLS	0.7601	0.7597	0.802	0.3683	0.2105	0.0941	0.061	0.8118	0.9479	0.9652	0.4756	0.1663	0.1109
bitem_LIST_MULTI_Run2_CLS	0.7644	0.7643	0.7986	0.3728	0.2132	0.1123	0.0932	0.8211	0.9458	0.9649	0.4813	0.1916	0.1599
bitem_MULTI_Run1_CLS	0.7618	0.7617	0.8088	0.3673	0.2104	0.099	0.0722	0.8116	0.945	0.9617	0.4747	0.1732	0.1286
bitem_MULTI_Run2_CLS	0.7628	0.7628	0.8014	0.3747	0.2202	0.1363	0.1242	0.8181	0.9419	0.9579	0.4826	0.2235	0.2035
humb_patatras_run1_CLS	0.4856	0.4822	0.5531	0.2544	0.1407	0.0583	0.03	0.5882	0.6617	0.6791	0.333	0.1047	0.0568
insa_WinnowRun1_CLS	0.673	0.6707	0.8027	0.3146	0.1716	0.0725	0.0377	0.7201	0.7999	0.8223	0.4107	0.1297	0.0711
insa_WinnowRun2_CLS	0.6667	0.6647	0.7837	0.3133	0.1731	0.0755	0.0395	0.7164	0.8241	0.8542	0.4089	0.1349	0.0745
insa_WinnowRun3_CLS	0.6789	0.6768	0.8007	0.3189	0.1742	0.0742	0.0386	0.7299	0.8154	0.8393	0.4165	0.1327	0.0728
insa_WinnowRun4_CLS	0.6787	0.6766	0.7973	0.3205	0.1754	0.0759	0.0394	0.7313	0.8285	0.853	0.4183	0.1357	0.0743
insa_WinnowRun5_CLS	0.6896	0.6873	0.819	0.3283	0.175	0.0727	0.0373	0.742	0.7996	0.8162	0.427	0.13	0.0703
jve_comb_Run3_CLS	0.7399	0.7399	0.8463	0.4319	0.429	0.429	0.429	0.8194	0.8207	0.8207	0.5257	0.5232	0.5232
jve_sem_Run1_CLS	0.6651	0.6651	0.7639	0.315	0.1813	0.1045	0.1045	0.7263	0.8927	0.8927	0.4125	0.1816	0.1816
jve_sim_Run2_CLS	0.7584	0.7584	0.7898	0.3763	0.2243	0.1575	0.1575	0.8197	0.9448	0.9448	0.4848	0.2562	0.2562
run_abstractsBOW_Run1_CLS	0.6974	0.6957	0.7469	0.3448	0.1931	0.0835	0.0435	0.7621	0.8853	0.914	0.4456	0.1487	0.0819
run_abstractsBOWT_Run1_CLS	0.7154	0.7138	0.7605	0.352	0.1977	0.0853	0.0444	0.7812	0.9022	0.9303	0.4555	0.152	0.0835
spq_bm25_Run1_CLS_2000	0.4637	0.4617	0.4442	0.2445	0.1597	0.0791	0.045	0.5302	0.8294	0.916	0.314	0.1407	0.0845
ssft_C0_run1_CLS	0.7884	0.7875	0.8449	0.3796	0.2109	0.0894	0.0459	0.842	0.9402	0.9579	0.4915	0.1592	0.0863
ssft_C4500_run2_CLS	0.7826	0.7815	0.8361	0.3767	0.2088	0.0889	0.0459	0.8343	0.9377	0.9594	0.4876	0.1584	0.0863
ssft_CC0_run5_CLS	0.7937	0.7928	0.849	0.3833	0.211	0.0893	0.0457	0.8433	0.9385	0.9552	0.4949	0.159	0.086
ssft_CC4500_run6_CLS	0.7884	0.7874	0.8429	0.3784	0.2097	0.089	0.0457	0.8387	0.9377	0.956	0.49	0.1585	0.0861
ssft_CE0_run3_CLS	0.7958	0.7949	0.849	0.3844	0.2111	0.0895	0.0459	0.8499	0.9418	0.9605	0.4972	0.1594	0.0864
ssft_CE6800_run4_CLS	0.7888	0.7877	0.8429	0.38	0.2104	0.0898	0.0461	0.8412	0.9454	0.9636	0.4916	0.1599	0.0868
ssft_CEC0_run7_CLS	0.7977	0.7967	0.8442	0.3846	0.2136	0.0897	0.0458	0.8489	0.9445	0.9572	0.4975	0.1597	0.0861
ssft_CEC6800_run8_CLS	0.7966	0.7955	0.8463	0.3811	0.2118	0.0892	0.0459	0.8428	0.9392	0.9589	0.4933	0.1588	0.0863
run	MAP	MAP_50	**P_1**	**P_5**	**P_10**	**P_25**	**P_50**	**R_5**	**R_25**	**R_50**	F_1_5	F_1_25	F_1_50

Table 5: Detailed measures for the CLS task, German topics

run	MAP	MAP_50	P_1	P_5	P_10	P_25	P_50	R_5	R_25	R_50	F_1_5	F_1_25	F_1_50
bitem_FREQ_Run1_CLS	0.4442	0.4441	0.4167	0.1915	0.1206	0.0777	0.0735	0.5385	0.7475	0.7696	0.265	0.1349	0.1281
bitem_FREQ_Run2_CLS	0.5842	0.5842	0.5956	0.2481	0.153	0.1093	0.108	0.6754	0.8275	0.843	0.3407	0.1824	0.1803
bitem_FREQ_Run3_CLS	0.5963	0.5963	0.6054	0.2556	0.1537	0.1093	0.1071	0.7012	0.8156	0.8332	0.3522	0.1803	0.1767
bitem_LIST_MULTI_Run1_CLS	0.612	0.6115	0.6103	0.2525	0.1505	0.0691	0.0404	0.6957	0.8897	0.9343	0.3479	0.125	0.076
bitem_LIST_MULTI_Run2_CLS	0.5889	0.5884	0.5907	0.2456	0.1454	0.0701	0.0468	0.6752	0.8568	0.9014	0.3379	0.1258	0.0861
bitem_MULTI_Run1_CLS	0.618	0.6175	0.6152	0.2556	0.1517	0.0714	0.0456	0.7032	0.8914	0.9288	0.3522	0.1284	0.0843
bitem_MULTI_Run2_CLS	0.5899	0.5897	0.5907	0.2456	0.146	0.0736	0.0553	0.6727	0.8524	0.895	0.3376	0.1309	0.0998
humb_patatras_run1_CLS	0.5915	0.5897	0.5931	0.2471	0.1353	0.0547	0.0279	0.6995	0.7647	0.7758	0.3433	0.0999	0.0532
insa_WinnowRun1_CLS	0.6508	0.6487	0.7206	0.2436	0.1363	0.0581	0.0301	0.714	0.8068	0.8274	0.3421	0.106	0.0573
insa_WinnowRun2_CLS	0.6158	0.6138	0.6863	0.2304	0.1304	0.0579	0.0305	0.6842	0.8063	0.8402	0.325	0.1057	0.0582
insa_WinnowRun3_CLS	0.6742	0.6727	0.7426	0.2495	0.1375	0.0597	0.0316	0.7325	0.8249	0.8611	0.3505	0.1088	0.0602
insa_WinnowRun4_CLS	0.6707	0.669	0.7328	0.2559	0.1407	0.0605	0.0316	0.7459	0.8349	0.8587	0.3596	0.1103	0.0601
insa_WinnowRun5_CLS	0.669	0.6673	0.7304	0.2608	0.1404	0.0591	0.0303	0.7531	0.8185	0.8341	0.3645	0.1077	0.0578
jve_comb_Run3_CLS	0.6905	0.6905	0.7426	0.3237	0.3211	0.3211	0.3211	0.8076	0.8101	0.8101	0.4324	0.4297	0.4297
jve_sem_Run1_CLS	0.6357	0.6357	0.6985	0.2397	0.1365	0.0814	0.0814	0.7186	0.8832	0.8832	0.3396	0.1449	0.1449
jve_sim_Run2_CLS	0.7022	0.7022	0.7328	0.2815	0.1615	0.1008	0.1008	0.7833	0.9113	0.9113	0.3901	0.1742	0.1742
run_abstractsBOW_Run1_CLS	0.5672	0.565	0.5588	0.2358	0.1346	0.0599	0.0318	0.6656	0.8005	0.8477	0.3274	0.1088	0.0604
run_abstractsBOWT_Run1_CLS	0.5935	0.5912	0.5956	0.2446	0.1392	0.063	0.0332	0.6953	0.8361	0.8775	0.3401	0.1144	0.0631
spq_bm25_Run1_CLS_2000	0.5202	0.5193	0.473	0.223	0.1412	0.0677	0.0369	0.6393	0.887	0.9515	0.3111	0.1229	0.0701
ssft_C0_run1_CLS	0.7779	0.777	0.8064	0.3049	0.1667	0.0705	0.036	0.8555	0.938	0.9503	0.424	0.1281	0.0684
ssft_C4500_run2_CLS	0.7666	0.7654	0.7794	0.3025	0.1645	0.0696	0.036	0.8502	0.9279	0.9481	0.4207	0.1265	0.0684
ssft_CC0_run5_CLS	0.7871	0.7865	0.8137	0.3078	0.1694	0.0714	0.0366	0.8616	0.947	0.9597	0.4277	0.1297	0.0695
ssft_CC4500_run6_CLS	0.7804	0.7794	0.8039	0.3083	0.1664	0.0702	0.0361	0.86	0.9336	0.9494	0.4275	0.1276	0.0686
ssft_CE0_run3_CLS	0.7751	0.7743	0.7941	0.3054	0.1676	0.0708	0.0365	0.8599	0.9413	0.9579	0.4254	0.1287	0.0694
ssft_CE6800_run4_CLS	0.7791	0.7781	0.8113	0.3049	0.164	0.0704	0.0362	0.8543	0.9354	0.9528	0.4238	0.1279	0.0688
ssft_CEC0_run7_CLS	0.7853	0.7844	0.8113	0.3054	0.1681	0.0717	0.0369	0.8562	0.9478	0.963	0.4246	0.1302	0.0701
ssft_CEC6800_run8_CLS	0.7779	0.7769	0.8039	0.3039	0.165	0.0709	0.0363	0.8537	0.9378	0.9521	0.4228	0.1287	0.069
run	MAP	MAP_50	**P_1**	**P_5**	**P_10**	**P_25**	**P_50**	**R_5**	**R_25**	**R_50**	F_1_5	F_1_25	F_1_50

Table 6: Detailed measures for the CLS task, French topics

run	MAP	MAP_50	P_1	P_5	P_10	P_25	P_50	R_5	R_25	R_50	F_1_5	F_1_25	F_1_50
bitem_FREQ_Run1_CLS	0.5185	0.5183	0.4754	0.2496	0.1391	0.0959	0.0934	0.6202	0.7779	0.8012	0.3367	0.1607	0.1564
bitem_FREQ_Run2_CLS	0.664	0.664	0.6803	0.2995	0.1871	0.1522	0.1511	0.74	0.8818	0.8927	0.4018	0.2382	0.2365
bitem_FREQ_Run3_CLS	0.6793	0.6793	0.7131	0.2889	0.1672	0.1129	0.1098	0.7285	0.857	0.8829	0.3889	0.185	0.1798
bitem_LIST_MULTI_Run1_CLS	0.6953	0.6948	0.7049	0.3016	0.1754	0.0782	0.0492	0.7712	0.9243	0.9653	0.4088	0.1396	0.0898
bitem_LIST_MULTI_Run2_CLS	0.6665	0.6662	0.6885	0.2922	0.1643	0.0791	0.0573	0.7477	0.8859	0.9207	0.3969	0.1401	0.1024
bitem_MULTI_Run1_CLS	0.6895	0.6886	0.6967	0.2984	0.1738	0.0816	0.0593	0.7589	0.9407	0.953	0.4037	0.1448	0.1058
bitem_MULTI_Run2_CLS	0.6653	0.6652	0.6803	0.2922	0.1658	0.085	0.0689	0.7434	0.8941	0.9105	0.3966	0.1488	0.1207
humb_patatras_run1_CLS	0.5031	0.5004	0.5328	0.2393	0.127	0.0525	0.0274	0.6074	0.6624	0.6863	0.3233	0.0951	0.052
insa_WinnowRun1_CLS	0.6269	0.6248	0.7213	0.2607	0.1467	0.0633	0.033	0.7055	0.8136	0.8467	0.3582	0.1147	0.0626
insa_WinnowRun2_CLS	0.5737	0.5711	0.6885	0.2361	0.1311	0.057	0.0297	0.6508	0.7452	0.7773	0.3267	0.1036	0.0564
insa_WinnowRun3_CLS	0.6277	0.625	0.7213	0.2672	0.1459	0.0607	0.0315	0.7089	0.7908	0.8208	0.3664	0.1101	0.0599
insa_WinnowRun4_CLS	0.6029	0.6007	0.7131	0.259	0.1369	0.0597	0.0305	0.6868	0.7782	0.7932	0.3541	0.1083	0.058
insa_WinnowRun5_CLS	0.6138	0.6109	0.7213	0.2574	0.1418	0.0613	0.0313	0.6956	0.7982	0.8087	0.3535	0.1113	0.0595
jve_comb_Run3_CLS	0.7325	0.7325	0.7787	0.3757	0.3735	0.3735	0.3735	0.8269	0.8269	0.8269	0.4828	0.4809	0.4809
jve_sem_Run1_CLS	0.6727	0.6727	0.7705	0.2738	0.1549	0.0866	0.0866	0.7378	0.8814	0.8814	0.3771	0.1534	0.1534
jve_sim_Run2_CLS	0.7391	0.7391	0.7459	0.3238	0.183	0.1234	0.1234	0.8199	0.9232	0.9232	0.4367	0.2058	0.2058
run_abstractsBOW_Run1_CLS	0.5993	0.5971	0.6066	0.2738	0.1525	0.0672	0.0354	0.6745	0.827	0.8611	0.3674	0.1214	0.0672
run_abstractsBOWT_Run1_CLS	0.618	0.6156	0.623	0.2836	0.1582	0.0675	0.0352	0.7159	0.8096	0.8506	0.3828	0.1219	0.0668
spq_bm25_Run1_CLS_2000	0.4574	0.4566	0.4016	0.2246	0.1434	0.0695	0.0385	0.5487	0.8587	0.9253	0.3002	0.1255	0.0729
ssft_C0_run1_CLS	0.7984	0.798	0.7869	0.3443	0.1852	0.0784	0.0397	0.8794	0.9615	0.9738	0.4677	0.1415	0.0752
ssft_C4500_run2_CLS	0.764	0.7634	0.7459	0.3328	0.177	0.0754	0.0393	0.8587	0.936	0.9615	0.4527	0.1364	0.0746
ssft_CC0_run5_CLS	0.7816	0.7813	0.7459	0.3475	0.1836	0.0767	0.0397	0.8838	0.9557	0.9802	0.4703	0.1388	0.0753
ssft_CC4500_run6_CLS	0.7852	0.7844	0.7705	0.3393	0.1836	0.0767	0.0393	0.8708	0.9488	0.9669	0.4609	0.1387	0.0746
ssft_CE0_run3_CLS	0.7866	0.7861	0.7787	0.3443	0.1861	0.0774	0.0397	0.8856	0.9578	0.9762	0.4689	0.1399	0.0753
ssft_CE6800_run4_CLS	0.7782	0.7776	0.7377	0.3426	0.1844	0.0777	0.0393	0.8767	0.955	0.9642	0.4652	0.1404	0.0746
ssft_CEC0_run7_CLS	0.7976	0.7974	0.8033	0.3475	0.1852	0.078	0.04	0.8927	0.9649	0.985	0.4724	0.1411	0.0759
ssft_CEC6800_run8_CLS	0.8067	0.8059	0.8033	0.3475	0.1869	0.077	0.0393	0.8923	0.9498	0.9617	0.4723	0.1392	0.0746
run	MAP	MAP_50	**P_1**	**P_5**	**P_10**	**P_25**	**P_50**	**R_5**	**R_25**	**R_50**	F_1_5	F_1_25	F_1_50

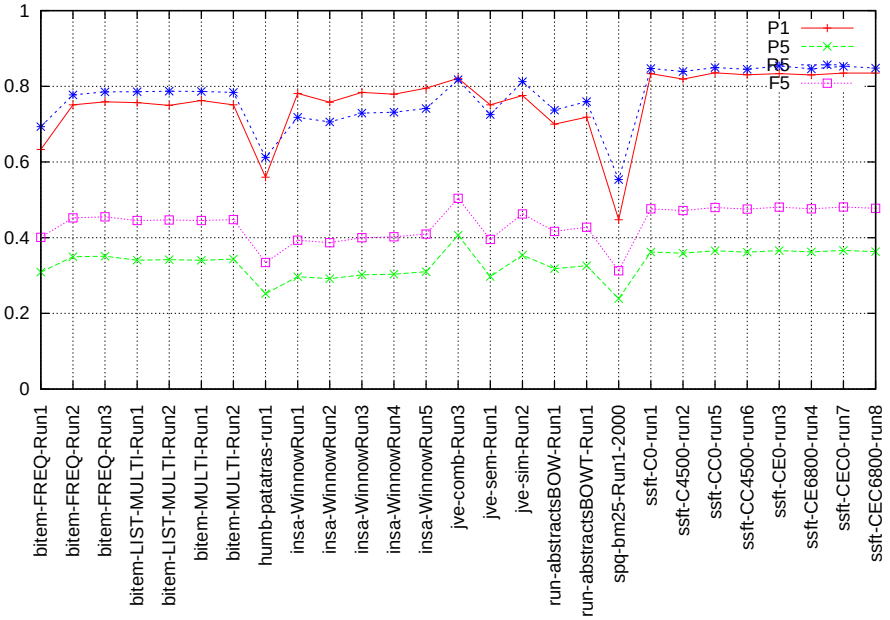

Figure 1: Graphical representation of the evaluation results for Classification topic set.

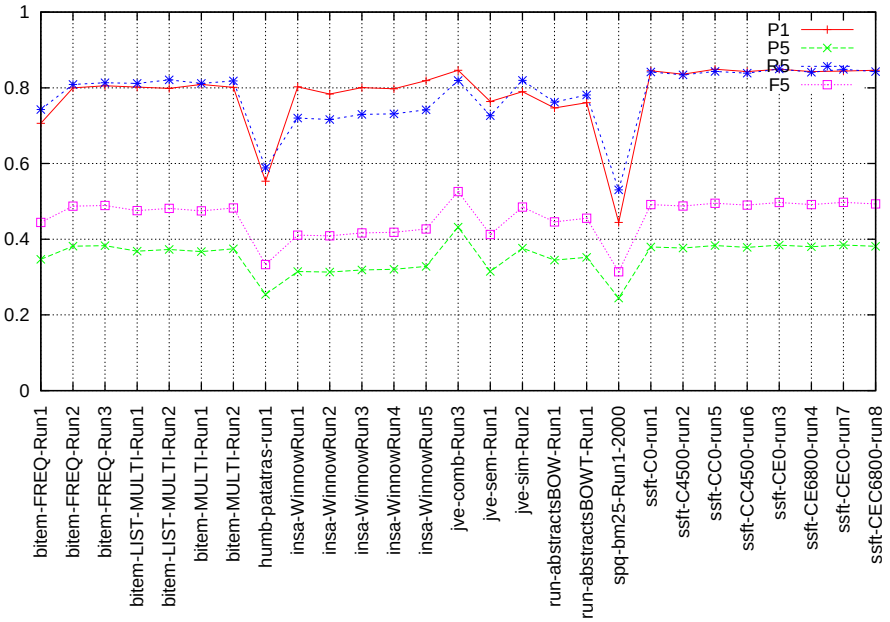

Figure 2: Graphical representation of the evaluation results for the English topic subset.

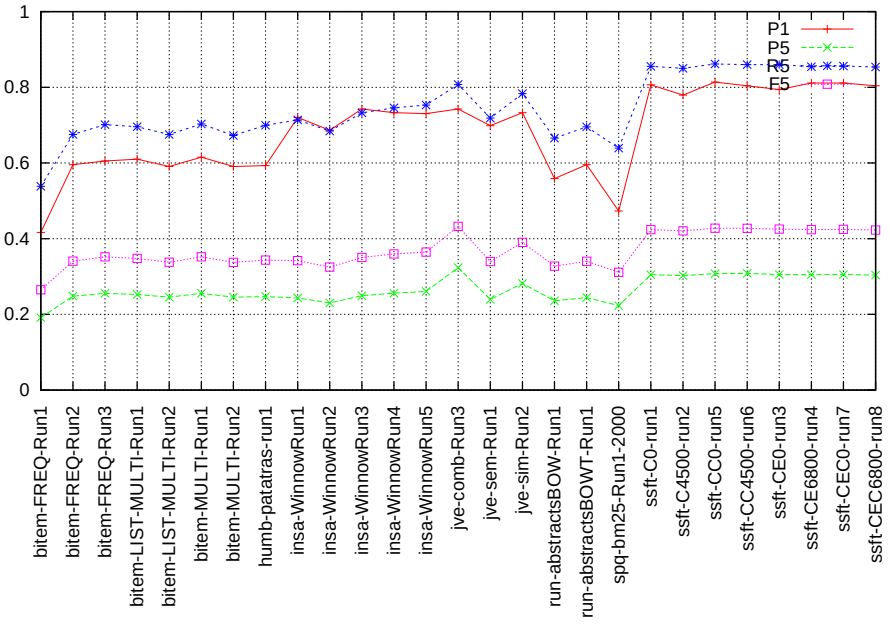

Figure 3: Graphical representation of the evaluation results for the German topic subset.

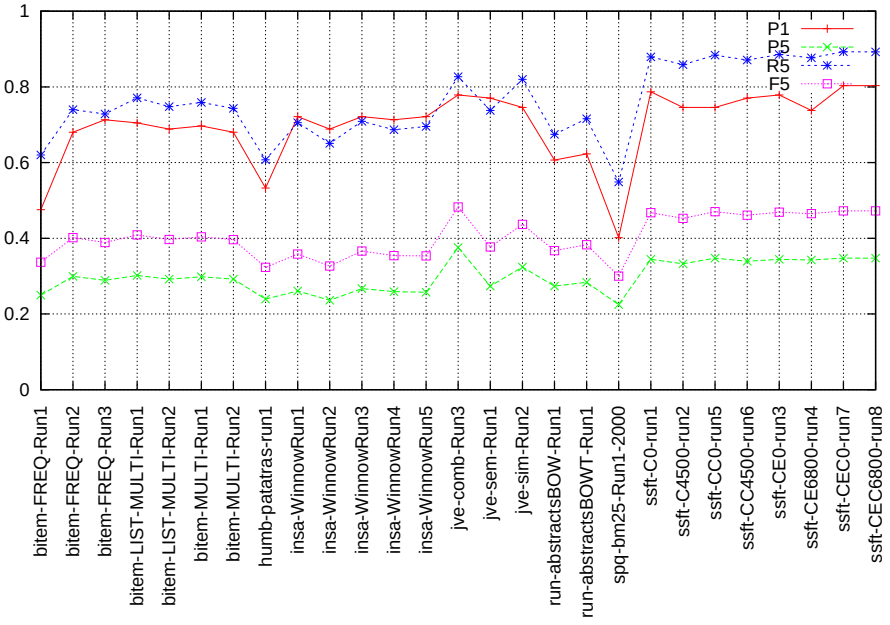

Figure 4: Graphical representation of the evaluation results for the French topic subset.

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