

Chemical Track results, Prior art task, full topic set — Fraunhofer Institute for Algorithms and Scientific Computing

Summary Statistics	
Run ID:	SCAI10CIENTP
Topic fields used	title, narrative
Document fields used	title, abstract, description, claims
Number of Topics:	1000
Total number of documents over all topics	
Retrieved:	994703
Relevant and contains an opinion:	42351
Relevant opinion documents retrieved:	31348

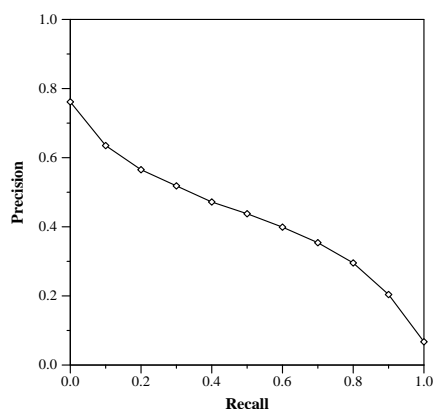
Recall Level Averages	
recall	Precision
0.00	0.7614
0.10	0.6350
0.20	0.5652
0.30	0.5184
0.40	0.4718
0.50	0.4378
0.60	0.3990
0.70	0.3540
0.80	0.2954
0.90	0.2040
1.00	0.0673
Mean average precision	
non-interpolated	0.4121

Document Level Averages	
	Precision
At 5 docs	0.5748
At 10 docs	0.5440
At 15 docs	0.5167
At 20 docs	0.4957
At 30 docs	0.4554
At 100 docs	0.2509
At 200 docs	0.1380
At 500 docs	0.0596
At 1000 docs	0.0313
R-Precision: precision after R (number relevant) documents retrieved	
Exact	0.4377

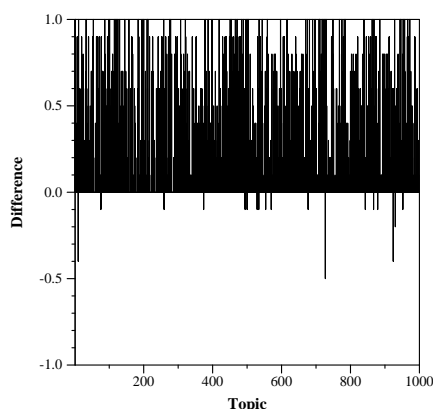
Summary Statistics	
Run ID:	SCAI10CITENT
Topic fields used	title, narrative
Document fields used	title, abstract, description, claims
Number of Topics:	1000
Total number of documents over all topics	
Retrieved:	942154
Relevant and contains an opinion:	42351
Relevant opinion documents retrieved:	23930

Recall Level Averages	
recall	Precision
0.00	0.5701
0.10	0.4151
0.20	0.3492
0.30	0.3047
0.40	0.2667
0.50	0.2287
0.60	0.2015
0.70	0.1653
0.80	0.1329
0.90	0.0913
1.00	0.0251
Mean average precision	
non-interpolated	0.2336

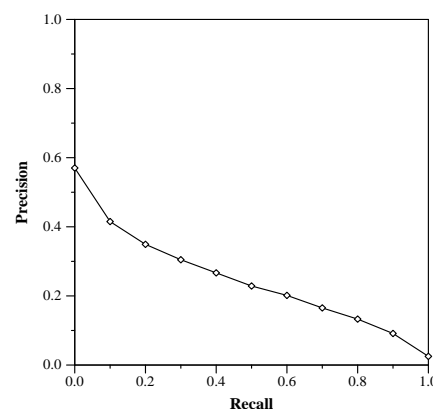
Document Level Averages	
	Precision
At 5 docs	0.3830
At 10 docs	0.3515
At 15 docs	0.3282
At 20 docs	0.3083
At 30 docs	0.2794
At 100 docs	0.1642
At 200 docs	0.0949
At 500 docs	0.0436
At 1000 docs	0.0239
R-Precision: precision after R (number relevant) documents retrieved	
Exact	0.2665



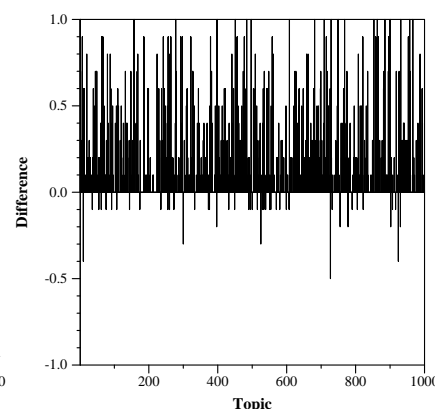
Recall-Precision Curve



Difference from median P@10 per topic



Recall-Precision Curve



Difference from median P@10 per topic

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Summary Statistics	
Run ID:	SCAI10CITNP
Topic fields used	title, narrative
Document fields used	title, abstract, description, claims
Number of Topics:	1000
Total number of documents over all topics	
Retrieved:	929758
Relevant and contains an opinion:	42351
Relevant opinion documents retrieved:	22372

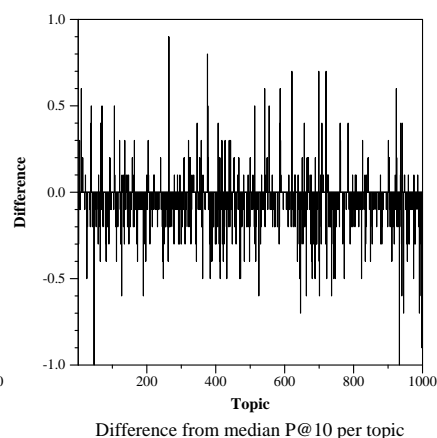
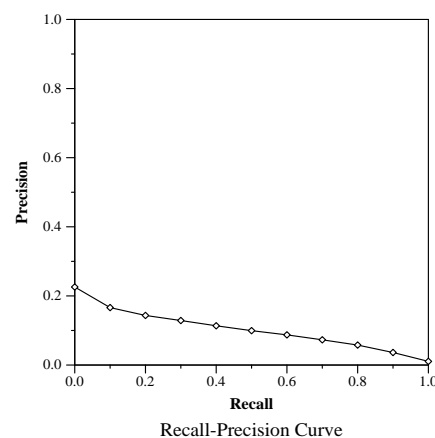
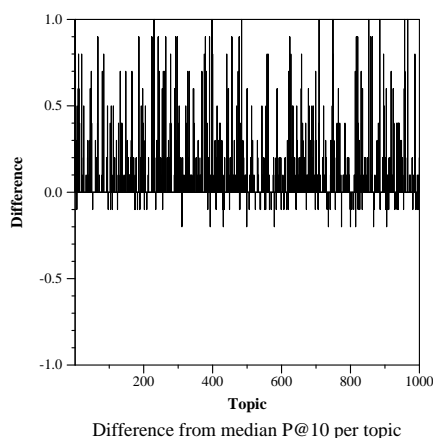
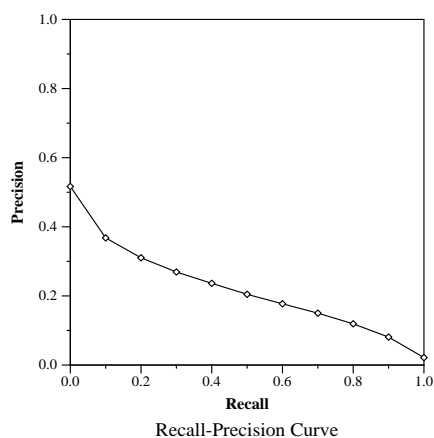
Recall Level Averages	
recall	Precision
0.00	0.5167
0.10	0.3679
0.20	0.3103
0.30	0.2692
0.40	0.2364
0.50	0.2046
0.60	0.1772
0.70	0.1501
0.80	0.1193
0.90	0.0809
1.00	0.0216
Mean average precision	
non-interpolated	0.2065

Document Level Averages	
	Precision
At 5 docs	0.3342
At 10 docs	0.3073
At 15 docs	0.2869
At 20 docs	0.2738
At 30 docs	0.2485
At 100 docs	0.1501
At 200 docs	0.0875
At 500 docs	0.0406
At 1000 docs	0.0224
R-Precision: precision after R (number relevant) documents retrieved	
Exact	0.2378

Summary Statistics	
Run ID:	SCAI10CITTOK
Topic fields used	title, narrative
Document fields used	title, abstract, description, claims
Number of Topics:	1000
Total number of documents over all topics	
Retrieved:	945919
Relevant and contains an opinion:	42351
Relevant opinion documents retrieved:	12712

Recall Level Averages	
recall	Precision
0.00	0.2258
0.10	0.1662
0.20	0.1435
0.30	0.1288
0.40	0.1136
0.50	0.0995
0.60	0.0873
0.70	0.0730
0.80	0.0578
0.90	0.0363
1.00	0.0106
Mean average precision	
non-interpolated	0.0947

Document Level Averages	
	Precision
At 5 docs	0.1416
At 10 docs	0.1320
At 15 docs	0.1271
At 20 docs	0.1226
At 30 docs	0.1126
At 100 docs	0.0749
At 200 docs	0.0454
At 500 docs	0.0221
At 1000 docs	0.0127
R-Precision: precision after R (number relevant) documents retrieved	
Exact	0.1063



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Summary Statistics	
Run ID:	SCAI10NRMENT
Topic fields used	title, narrative
Document fields used	title, abstract, description, claims
Number of Topics:	1000
Total number of documents over all topics	
Retrieved:	749691
Relevant and contains an opinion:	42351
Relevant opinion documents retrieved:	15320

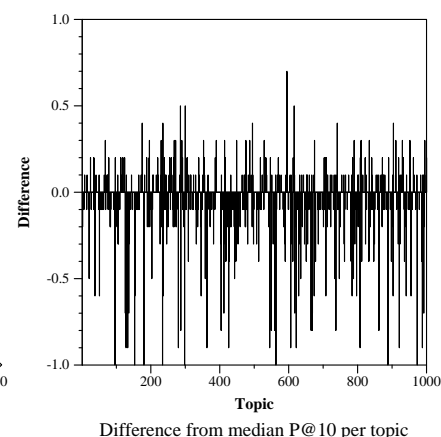
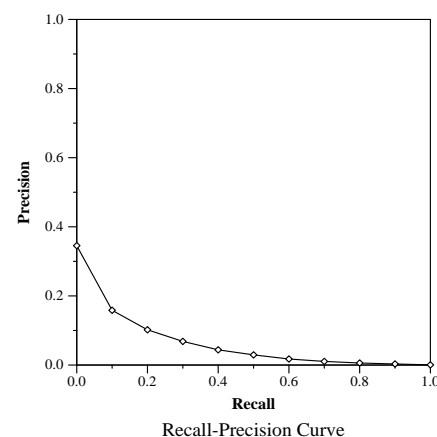
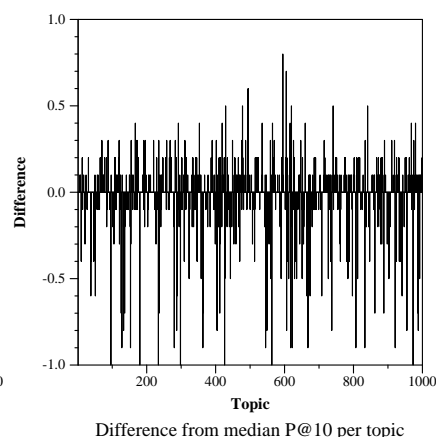
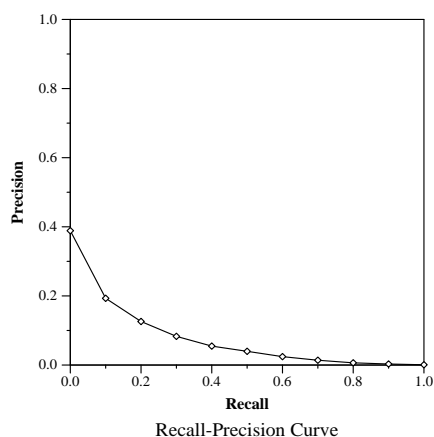
Recall Level Averages	
recall	Precision
0.00	0.3887
0.10	0.1931
0.20	0.1260
0.30	0.0830
0.40	0.0548
0.50	0.0397
0.60	0.0243
0.70	0.0139
0.80	0.0064
0.90	0.0030
1.00	0.0008
Mean average precision	
non-interpolated	0.0665

Document Level Averages	
	Precision
At 5 docs	0.1730
At 10 docs	0.1556
At 15 docs	0.1428
At 20 docs	0.1330
At 30 docs	0.1169
At 100 docs	0.0711
At 200 docs	0.0488
At 500 docs	0.0266
At 1000 docs	0.0153
R-Precision: precision after R (number relevant) documents retrieved	
Exact	0.1090

Summary Statistics	
Run ID:	SCAI10NRMNP
Topic fields used	title, narrative
Document fields used	title, abstract, description, claims
Number of Topics:	1000
Total number of documents over all topics	
Retrieved:	749605
Relevant and contains an opinion:	42351
Relevant opinion documents retrieved:	13199

Recall Level Averages	
recall	Precision
0.00	0.3454
0.10	0.1584
0.20	0.1020
0.30	0.0684
0.40	0.0440
0.50	0.0294
0.60	0.0175
0.70	0.0105
0.80	0.0059
0.90	0.0031
1.00	0.0005
Mean average precision	
non-interpolated	0.0551

Document Level Averages	
	Precision
At 5 docs	0.1490
At 10 docs	0.1342
At 15 docs	0.1224
At 20 docs	0.1135
At 30 docs	0.1000
At 100 docs	0.0620
At 200 docs	0.0420
At 500 docs	0.0229
At 1000 docs	0.0132
R-Precision: precision after R (number relevant) documents retrieved	
Exact	0.0935



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Summary Statistics	
Run ID:	SCAI10NRMTOK
Topic fields used	title, narrative
Document fields used	title, abstract, description, claims
Number of Topics:	1000
Total number of documents over all topics	
Retrieved:	749455
Relevant and contains an opinion:	42351
Relevant opinion documents retrieved:	5540

Recall Level Averages	
Recall	Precision
0.00	0.1275
0.10	0.0547
0.20	0.0322
0.30	0.0191
0.40	0.0107
0.50	0.0067
0.60	0.0038
0.70	0.0019
0.80	0.0010
0.90	0.0003
1.00	0.0001
Mean average precision	
non-interpolated	0.0172

Document Level Averages	
Recall	Precision
At 5 docs	0.0518
At 10 docs	0.0476
At 15 docs	0.0439
At 20 docs	0.0414
At 30 docs	0.0366
At 100 docs	0.0236
At 200 docs	0.0164
At 500 docs	0.0093
At 1000 docs	0.0055
R-Precision: precision after R (number relevant) documents retrieved	
Exact	0.0343

