

# GRACE-SA2-2

## (1) Evaluation Result without Considering Links

Summary Statistics	
Run ID	GRACE-SA2-2
Subtask	II-A2
Relevant Level	Level1 (H or A)
Query Method	automatic
Topic Part	TITLE and RDOC[1]
Contents/Links Used	contents only
Number of Topics	45
Total number of documents over all topics	
Retrieved:	45000
Relevant:	521
Rel-ret:	462

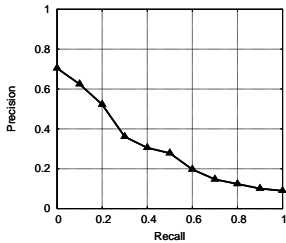
Summary Statistics	
Run ID	GRACE-SA2-2
Subtask	II-A2
Relevant Level	Level2 (H, A or B)
Query Method	automatic
Topic Part	TITLE and RDOC[1]
Contents/Links Used	contents only
Number of Topics	46
Total number of documents over all topics	
Retrieved:	46000
Relevant:	812
Rel-ret:	726

Recall Level Precision Averages	
Recall	Precision
0.00	0.7044
0.10	0.6246
0.20	0.5223
0.30	0.3609
0.40	0.3051
0.50	0.2783
0.60	0.1966
0.70	0.1467
0.80	0.1236
0.90	0.1005
1.00	0.0892
Average precision over all relevant documents	
non-interpolated	0.2935

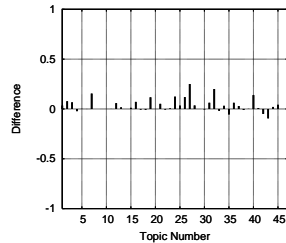
Document Level Averages	
	Precision
At 5 docs	0.2933
At 10 docs	0.2289
At 15 docs	0.1852
At 20 docs	0.1622
At 30 docs	0.1326
At 100 docs	0.0653
At 200 docs	0.0404
At 500 docs	0.0189
At 1000 docs	0.0103
R-Precision (precision after R docs retrieved (where R is the number of relevant documnets))	
Exact	0.2795

Recall Level Precision Averages	
Recall	Precision
0.00	0.8263
0.10	0.6892
0.20	0.5658
0.30	0.4437
0.40	0.3638
0.50	0.3185
0.60	0.2636
0.70	0.1725
0.80	0.1486
0.90	0.1061
1.00	0.0838
Average precision over all relevant documents	
non-interpolated	0.3382

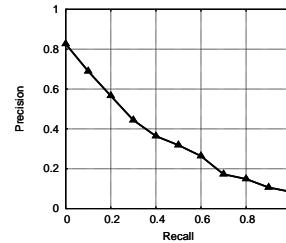
Document Level Averages	
	Precision
At 5 docs	0.3870
At 10 docs	0.3174
At 15 docs	0.2580
At 20 docs	0.2283
At 30 docs	0.1884
At 100 docs	0.0974
At 200 docs	0.0621
At 500 docs	0.0292
At 1000 docs	0.0158
R-Precision (precision after R docs retrieved (where R is the number of relevant documnets))	
Exact	0.3242



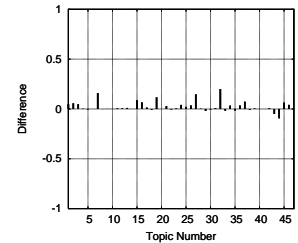
Recall-Precision Curve



Difference from Median in Average Precision per Topic (over 6 'automatic' and 'TITLE and RDOC[1]' runs)\*

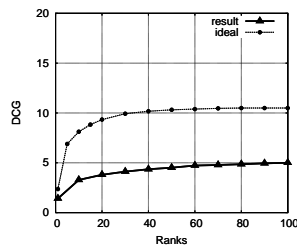


Recall-Precision Curve



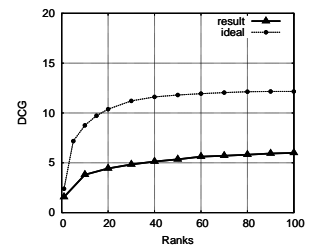
Difference from Median in Average Precision per Topic (over 6 'automatic' and 'TITLE and RDOC[1]' runs)\*\*

Discounted ( $\log_2$ ) Cummulative Gain Averages ( $G_S = 3, G_A = 2, G_B = 0$ )	
	DCG
At 1 doc	1.4130
At 10 docs	3.2808
At 20 docs	3.7965
At 30 docs	4.1143
At 40 docs	4.3514
At 50 docs	4.5084
At 60 docs	4.7229
At 70 docs	4.7810
At 80 docs	4.8572
At 90 docs	4.9454
At 100 docs	5.0017
At 200 docs	5.4332
At 500 docs	5.7598
At 1000 docs	5.9300



Discounted Cummulative Gain Curve ( $G_S = 3, G_A = 2, G_B = 0$ )

Discounted ( $\log_2$ ) Cummulative Gain Averages ( $G_S = 3, G_A = 2, G_B = 1$ )	
	DCG
At 1 doc	1.5652
At 10 docs	3.8016
At 20 docs	4.4340
At 30 docs	4.8313
At 40 docs	5.1278
At 50 docs	5.3481
At 60 docs	5.6150
At 70 docs	5.7057
At 80 docs	5.8133
At 90 docs	5.9320
At 100 docs	5.9949
At 200 docs	6.5890
At 500 docs	7.0159
At 1000 docs	7.2301



Discounted Cummulative Gain Curve ( $G_S = 3, G_A = 2, G_B = 1$ )

\* Topic Numbers: ( 1, 2, 3, 4, 5, 6, 7, 8, 9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45 )  
 Topic IDs: ( 8,10,11,12,13,14,15,16,17,18,19,20,22,23,24,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,46,47,48,49,52,53,58,59,60,61,62,63 )

\*\* Topic Numbers: ( 1, 2, 3, 4, 5, 6, 7, 8, 9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46 )  
 Topic IDs: ( 8,10,11,12,13,14,15,16,17,18,19,20,22,23,24,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,46,47,48,49,52,53,57,58,59,60,61,62,63 )

## (2) Evaluation Result with Considering Links

Summary Statistics	
Run ID	GRACE-SA2-2
Subtask	II-A2
Relevant Level	Level1 (H or A)
Query Method	automatic
Topic Part	TITLE and RDOC[1]
Contents/Links Used	contents only
Number of Topics	46
Total number of documents over all topics	
Retrieved:	46000
Relevant:	966
Rel-ret:	823

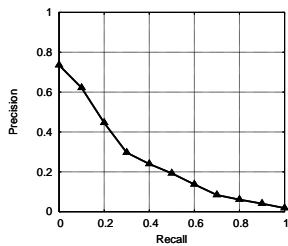
Summary Statistics	
Run ID	GRACE-SA2-2
Subtask	II-A2
Relevant Level	Level2 (H, A or B)
Query Method	automatic
Topic Part	TITLE and RDOC[1]
Contents/Links Used	contents only
Number of Topics	47
Total number of documents over all topics	
Retrieved:	47000
Relevant:	1381
Rel-ret:	1164

Recall Level Precision Averages	
Recall	Precision
0.00	0.7353
0.10	0.6213
0.20	0.4460
0.30	0.2963
0.40	0.2395
0.50	0.1923
0.60	0.1369
0.70	0.0838
0.80	0.0606
0.90	0.0405
1.00	0.0181
Average precision over all relevant documents	
non-interpolated	0.2313

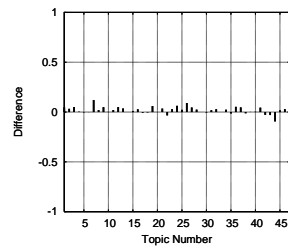
Document Level Averages	
	Precision
At 5 docs	0.3435
At 10 docs	0.2913
At 15 docs	0.2493
At 20 docs	0.2217
At 30 docs	0.1862
At 100 docs	0.1017
At 200 docs	0.0654
At 500 docs	0.0329
At 1000 docs	0.0179
R-Precision (precision after R docs retrieved (where R is the number of relevant documnets))	
Exact	0.2448

Recall Level Precision Averages	
Recall	Precision
0.00	0.8489
0.10	0.6578
0.20	0.4959
0.30	0.3435
0.40	0.2489
0.50	0.2043
0.60	0.1589
0.70	0.1128
0.80	0.0842
0.90	0.0434
1.00	0.0153
Average precision over all relevant documents	
non-interpolated	0.2634

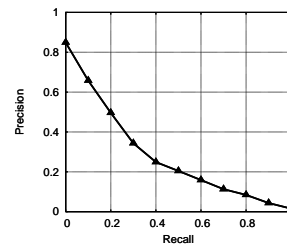
Document Level Averages	
	Precision
At 5 docs	0.4426
At 10 docs	0.3830
At 15 docs	0.3291
At 20 docs	0.2926
At 30 docs	0.2461
At 100 docs	0.1400
At 200 docs	0.0916
At 500 docs	0.0457
At 1000 docs	0.0248
R-Precision (precision after R docs retrieved (where R is the number of relevant documnets))	
Exact	0.2671



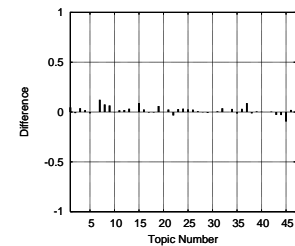
Recall-Precision Curve



Difference from Median in Average Precision per Topic (over 6 'automatic' and 'TITLE and RDOC[1]' runs)\*

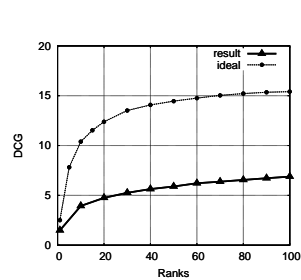


Recall-Precision Curve



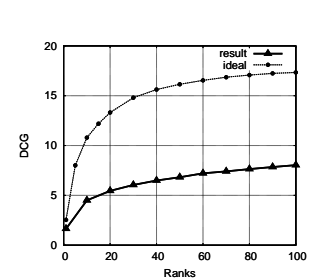
Difference from Median in Average Precision per Topic (over 6 'automatic' and 'TITLE and RDOC[1]' runs)\*\*

Discounted ( $\log_2$ ) Cummulative Gain Averages ( $G_S = 3, G_A = 2, G_B = 1$ )	
	DCG
At 1 doc	1.4894
At 10 docs	3.9372
At 20 docs	4.7481
At 30 docs	5.2566
At 40 docs	5.6299
At 50 docs	5.8880
At 60 docs	6.2154
At 70 docs	6.3709
At 80 docs	6.5480
At 90 docs	6.7202
At 100 docs	6.8790
At 200 docs	7.6905
At 500 docs	8.5009
At 1000 docs	8.8193



Discounted Cummulative Gain Curve ( $G_S = 3, G_A = 2, G_B = 0$ )

Discounted ( $\log_2$ ) Cummulative Gain Averages ( $G_S = 3, G_A = 2, G_B = 0$ )	
	DCG
At 1 doc	1.6383
At 10 docs	4.5000
At 20 docs	5.4487
At 30 docs	6.0437
At 40 docs	6.4874
At 50 docs	6.8188
At 60 docs	7.2085
At 70 docs	7.4065
At 80 docs	7.6349
At 90 docs	7.8435
At 100 docs	8.0315
At 200 docs	9.0502
At 500 docs	10.0092
At 1000 docs	10.3816



Discounted Cummulative Gain Curve ( $G_S = 3, G_A = 2, G_B = 1$ )

\* Topic Numbers: ( 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46 )  
 Topic IDs: ( 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 49, 52, 53, 56, 58, 59, 60, 61, 62, 63 )

\*\* Topic Numbers: ( 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47 )  
 Topic IDs: ( 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 49, 52, 53, 56, 57, 58, 59, 60, 61, 62, 63 )