

(1) Evaluation Result when Considering Links ('Survey'-type Evaluation)

Summary Statistics	
Run ID	TKB-ds-03
Subtask	Subtask A (survey)
Relevant Level	Level1 (S or A)
Query Method	automatic
Topic Part	DISC only
Contents/Links Used	c-discription-l
Number of Topics	35
Total number of documents over all topics	
Retrieved:	35000
Relevant:	3893
Rel-ret:	1453

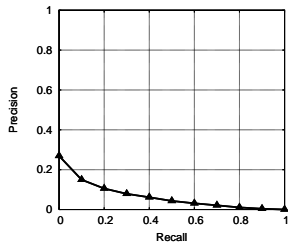
Summary Statistics	
Run ID	TKB-ds-03
Subtask	Subtask A (survey)
Relevant Level	Level2 (S, A or B)
Query Method	automatic
Topic Part	DISC only
Contents/Links Used	d-discription-l
Number of Topics	35
Total number of documents over all topics	
Retrieved:	35000
Relevant:	5687
Rel-ret:	2149

Recall Level Precision Averages	
Recall	Precision
0.00	0.2691
0.10	0.1496
0.20	0.1054
0.30	0.0789
0.40	0.0615
0.50	0.0431
0.60	0.0312
0.70	0.0209
0.80	0.0106
0.90	0.0038
1.00	0
Average precision over all relevant documents	
non-interpolated	0.0577

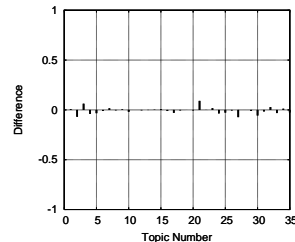
Document Level Averages	
	Precision
At 5 docs	0.1486
At 10 docs	0.1486
At 15 docs	0.1429
At 20 docs	0.1314
At 30 docs	0.1286
At 100 docs	0.1031
At 200 docs	0.0807
At 500 docs	0.0575
At 1000 docs	0.0415
R-Precision (precision after R docs retrieved (where R is the number of relevant documnets))	
Exact	0.0941

Recall Level Precision Averages	
Recall	Precision
0.00	0.3944
0.10	0.2134
0.20	0.1506
0.30	0.1174
0.40	0.0875
0.50	0.0618
0.60	0.0487
0.70	0.0218
0.80	0.0116
0.90	0
1.00	0
Average precision over all relevant documents	
non-interpolated	0.0823

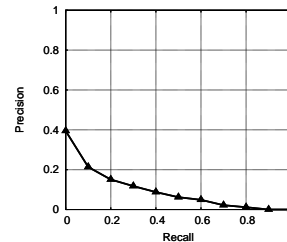
Document Level Averages	
	Precision
At 5 docs	0.2229
At 10 docs	0.2086
At 15 docs	0.2057
At 20 docs	0.1900
At 30 docs	0.1971
At 100 docs	0.1574
At 200 docs	0.1237
At 500 docs	0.0879
At 1000 docs	0.0614
R-Precision (precision after R docs retrieved (where R is the number of relevant documnets))	
Exact	0.1250



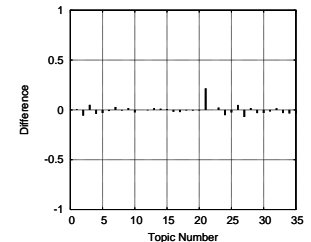
Recall-Precision Curve



Difference from Median in Average Precision per Topic (over 16 'automatic' and 'DISC only' runs)\*

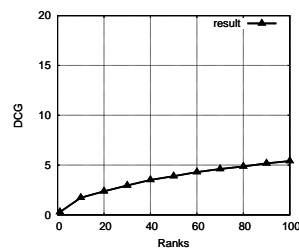


Recall-Precision Curve



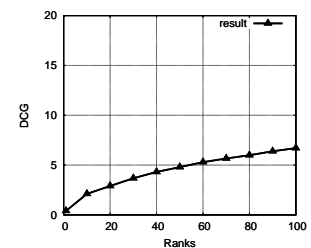
Difference from Median in Average Precision per Topic (over 16 'automatic' and 'DISC only' runs)\*

Discounted ( $\log_2$ ) Cumulative Gain Averages ( $G_S = 3, G_A = 2, G_B = 1$ )	
	DCG
At 1 doc	0.2857
At 10 docs	1.7244
At 20 docs	2.3668
At 30 docs	2.9521
At 40 docs	3.5088
At 50 docs	3.8867
At 60 docs	4.2968
At 70 docs	4.6048
At 80 docs	4.8613
At 90 docs	5.1727
At 100 docs	5.4075
At 200 docs	7.2496
At 500 docs	10.5492
At 1000 docs	13.4835



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

Discounted ( $\log_2$ ) Cumulative Gain Averages ( $G_S = 3, G_A = 2, G_B = 0$ )	
	DCG
At 1 doc	0.4000
At 10 docs	2.1093
At 20 docs	2.9005
At 30 docs	3.6762
At 40 docs	4.3110
At 50 docs	4.7932
At 60 docs	5.2925
At 70 docs	5.6620
At 80 docs	5.9875
At 90 docs	6.3883
At 100 docs	6.7012
At 200 docs	8.9883
At 500 docs	13.0818
At 1000 docs	16.5106



Discounted Cumulative 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 )  
 Topic IDs: ( 1,3,4,6,19,21,22,23,28,29,34,44,45,55,58,61,62,63,65,68,70,71,73,74,76,80,82,84,86,88,91,95,97,98,99 )

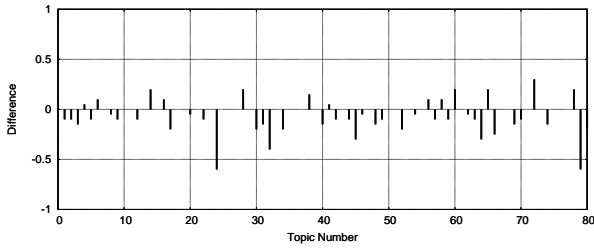
(2) Evaluation Result when Considering Links ('Target'-type Evaluation)

Summary Statistics	
Run ID	TKB-ds-03
Subtask	Subtask A (target)
Relevant Level	Level1 (S or A)
Query Method	automatic
Topic Part	DISC only
Contents/Links Used	c-discription-l
Number of Topics	80

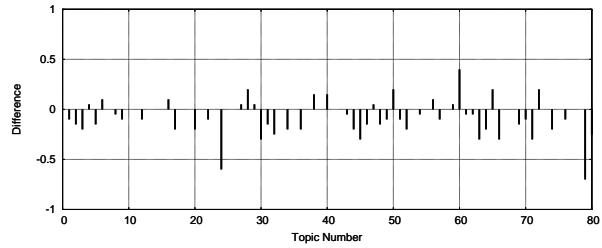
Summary Statistics	
Run ID	TKB-ds-03
Subtask	Subtask A (target)
Relevant Level	Level2 (S, A or B)
Query Method	automatic
Topic Part	DISC only
Contents/Links Used	d-discription-l
Number of Topics	80

Document Level Precision Averages, Mean Reciprocal Rank (MRR), and the Number (#) and Percentage (%) of Topics for which No Relevant Document (Level1) were Retrieved				
	Precision	MRR	#	%
At 5 docs	0.1625	0.2283	49	0.6125
At 10 docs	0.1600	0.2479	38	0.4750
At 15 docs	0.1575	0.2510	35	0.4375
At 20 docs	0.1450	0.2540	31	0.3875

Document Level Precision Averages, Mean Reciprocal Rank (MRR), and the Number (#) and Percentage (%) of Topics for which No Relevant Document (Level2) were Retrieved				
	Precision	MRR	#	%
At 5 docs	0.2250	0.3254	43	0.5375
At 10 docs	0.2138	0.3469	30	0.3750
At 15 docs	0.2167	0.3506	26	0.3250
At 20 docs	0.2000	0.3521	24	0.3000

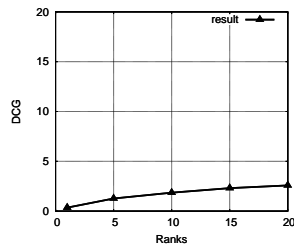


Difference from Median in Precision at Top-ranked 10 Documents per Topic (over 16 'automatic' and 'DISC only' runs)\*



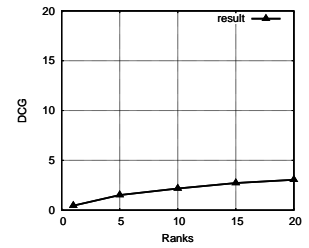
Difference from Median in Precision at Top-ranked 10 Documents per Topic (over 16 'automatic' and 'DISC only' runs)\*

Discounted ( $\log_2$ ) Cummulative Gain Averages ( $G_S = 3, G_A = 2, G_B = 0$ )	
	DCG
At 1 doc	0.3500
At 5 doc	1.2678
At 10 docs	1.8526
At 15 docs	2.3063
At 20 docs	2.5808



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	0.4500
At 5 doc	1.5164
At 10 docs	2.1748
At 15 docs	2.7227
At 20 docs	3.0488



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, 41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80 )  
 Topic IDs: ( 1, 2, 3, 4, 5, 6, 7, 9,11,14,15,19,21,22,23,24,25,26,28,29, 30, 31, 34, 38, 43, 44, 45, 46, 55, 57, 58, 60, 61, 62, 63, 65, 66, 67, 68, 70, 71,72,73,74,76,77,80,81,82,84,86,88,89,91,94,95,97,98,99,108,110,111,112,116,117,119,120,122,123,127,129,132,133,143,145,146,149,150,151,152 )