

# GRACE-LB-1

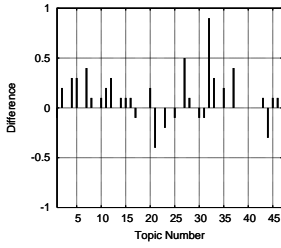
## (1) Evaluation Result without Considering Links

| Summary Statistics  |                 |
|---------------------|-----------------|
| Run ID              | GRACE-LB-1      |
| Subtask             | I-B             |
| Relevant Level      | Level1 (H or A) |
| Query Method        | automatic       |
| Topic Part          | TITLE only      |
| Contents/Links Used | contents only   |
| Number of Topics    | 47              |

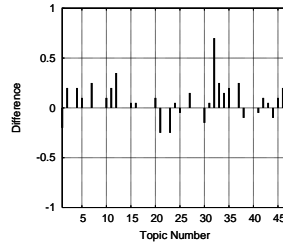
| Summary Statistics  |                    |
|---------------------|--------------------|
| Run ID              | GRACE-LB-1         |
| Subtask             | I-B                |
| Relevant Level      | Level2 (H, A or B) |
| Query Method        | automatic          |
| Topic Part          | TITLE only         |
| Contents/Links Used | contents only      |
| Number of Topics    | 47                 |

| 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   | 0.2255    | 0.3443 | 20 | 0.4255 |
| At 10 docs  | 0.2213    | 0.3618 | 14 | 0.2979 |
| At 15 docs  | 0.2043    | 0.3670 | 11 | 0.2340 |
| At 20 docs  | 0.1957    | 0.3680 | 10 | 0.2128 |

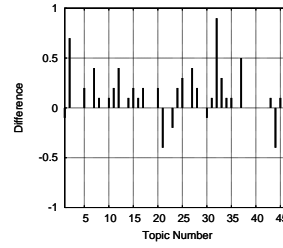
| Document Level Precision Averages, Mean Reciprocal Rank (MRR), and the Number (#) and Percentage (%) of Topics for which No Relevant Document (Level2) were Retrieved |           |        |    |        |
|---|-----------|--------|----|--------|
|   | Precision | MRR    | #  | %      |
| At 5 docs   | 0.3660    | 0.4713 | 16 | 0.3404 |
| At 10 docs  | 0.3511    | 0.4767 | 14 | 0.2979 |
| At 15 docs  | 0.3347    | 0.4818 | 11 | 0.2340 |
| At 20 docs  | 0.3106    | 0.4829 | 10 | 0.2128 |



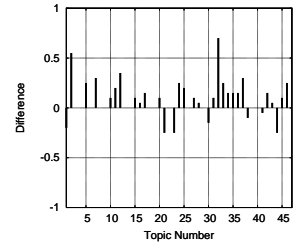
Difference from Median in Precision at Top-ranked 10 Documents per Topic (over 13 'automatic' and 'TITLE only' runs)\*



Difference from Median in Precision at Top-ranked 20 Documents per Topic (over 13 'automatic' and 'TITLE only' runs)\*

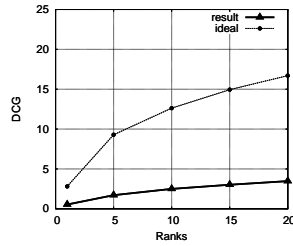


Difference from Median in Precision at Top-ranked 10 Documents per Topic (over 13 'automatic' and 'TITLE only' runs)\*



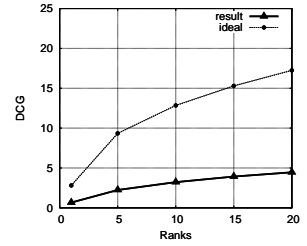
Difference from Median in Precision at Top-ranked 20 Documents per Topic (over 13 'automatic' and 'TITLE only' runs)\*

| Discounted ( $\log_2$ ) Cummulative Gain Averages ( $G_S = 3, G_A = 2, G_B = 0$ ) |        |
|---|--------|
|   | DCG    |
| At 1 doc  | 0.5319 |
| At 5 doc  | 1.7080 |
| At 10 docs  | 2.4940 |
| At 15 docs  | 3.0176 |
| At 20 docs  | 3.4696 |



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  | 0.6596 |
| At 5 doc  | 2.2344 |
| At 10 docs  | 3.2212 |
| At 15 docs  | 3.9212 |
| At 20 docs  | 4.4555 |



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 )  
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 )

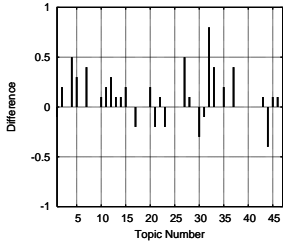
## (2) Evaluation Result with Considering Links

| Summary Statistics  |                 |
|---------------------|-----------------|
| Run ID              | GRACE-LB-1      |
| Subtask             | I-B             |
| Relevant Level      | Level1 (H or A) |
| Query Method        | automatic       |
| Topic Part          | TITLE only      |
| Contents/Links Used | contents only   |
| Number of Topics    | 47              |

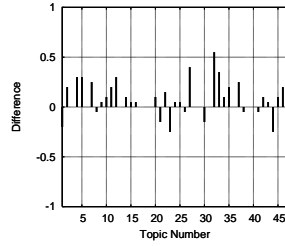
| Summary Statistics  |                    |
|---------------------|--------------------|
| Run ID              | GRACE-LB-1         |
| Subtask             | I-B                |
| Relevant Level      | Level2 (H, A or B) |
| Query Method        | automatic          |
| Topic Part          | TITLE only         |
| Contents/Links Used | contents only      |
| Number of Topics    | 47                 |

| 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   | 0.2638    | 0.3894 | 18 | 0.3830 |
| At 10 docs  | 0.2532    | 0.4060 | 12 | 0.2553 |
| At 15 docs  | 0.2454    | 0.4126 | 8  | 0.1702 |
| At 20 docs  | 0.2415    | 0.4139 | 7  | 0.1489 |

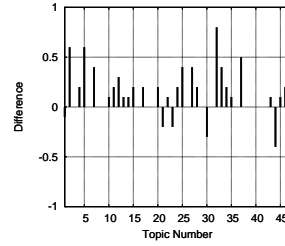
| Document Level Precision Averages, Mean Reciprocal Rank (MRR), and the Number (#) and Percentage (%) of Topics for which No Relevant Document (Level2) were Retrieved |           |        |    |        |
|---|-----------|--------|----|--------|
|   | Precision | MRR    | #  | %      |
| At 5 docs   | 0.4128    | 0.5163 | 14 | 0.2979 |
| At 10 docs  | 0.3915    | 0.5208 | 12 | 0.2553 |
| At 15 docs  | 0.3858    | 0.5274 | 8  | 0.1702 |
| At 20 docs  | 0.3606    | 0.5288 | 7  | 0.1489 |



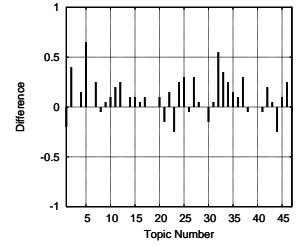
Difference from Median in Precision at Top-ranked 10 Documents per Topic (over 13 'automatic' and 'TITLE only' runs)\*



Difference from Median in Precision at Top-ranked 20 Documents per Topic (over 13 'automatic' and 'TITLE only' runs)\*

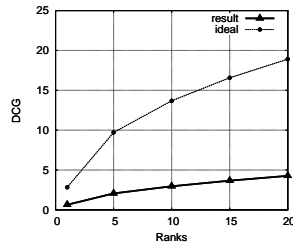


Difference from Median in Precision at Top-ranked 10 Documents per Topic (over 13 'automatic' and 'TITLE only' runs)\*



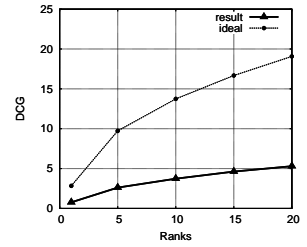
Difference from Median in Precision at Top-ranked 20 Documents per Topic (over 13 'automatic' and 'TITLE only' runs)\*

| Discounted ( $\log_2$ ) Cummulative Gain Averages ( $G_S = 3, G_A = 2, G_B = 0$ ) |        |
|---|--------|
|   | DCG    |
| At 1 doc  | 0.6383 |
| At 5 doc  | 2.0624 |
| At 10 docs  | 2.9598 |
| At 15 docs  | 3.6612 |
| At 20 docs  | 4.2663 |



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  | 0.7660 |
| At 5 doc  | 2.6128 |
| At 10 docs  | 3.7273 |
| At 15 docs  | 4.6230 |
| At 20 docs  | 5.2950 |



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 )  
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 )