

# NAICR-II-B-2

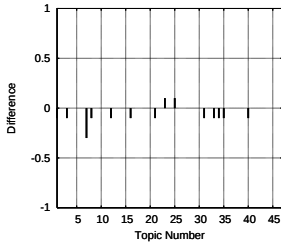
## (1) Evaluation Result without Considering Links

| Summary Statistics  |                 |
|---------------------|-----------------|
| Run ID              | NAICR-II-B-2    |
| Subtask             | II-B            |
| Relevant Level      | Level1 (H or A) |
| Query Method        | automatic       |
| Topic Part          | DISC only       |
| Contents/Links Used | contents only   |
| Number of Topics    | 45              |

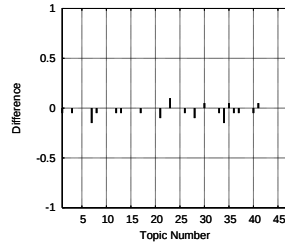
| Summary Statistics  |                    |
|---------------------|--------------------|
| Run ID              | NAICR-II-B-2       |
| Subtask             | II-B               |
| Relevant Level      | Level2 (H, A or B) |
| Query Method        | automatic          |
| Topic Part          | DISC only          |
| Contents/Links Used | contents only      |
| Number of Topics    | 46                 |

| 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                                                                                                                                                             | 0.1022    | 0.0725 | 41 | 0.8913 |
| At 10 docs                                                                                                                                                            | 0.0778    | 0.0229 | 41 | 0.8913 |
| At 15 docs                                                                                                                                                            | 0.0711    | 0.0465 | 39 | 0.8478 |
| At 20 docs                                                                                                                                                            | 0.0589    | 0.0859 | 34 | 0.7391 |

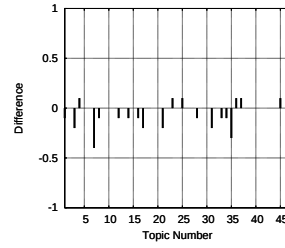
| Document Level Precision Averages, Mean Reciprocal Rank (MRR), and the Number (#) and Percentage (%) of Topics for which No Relevant Document (Level2) were Retrieved |           |        |    |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------|----|--------|
|                                                                                                                                                                       | Precision | MRR    | #  | %      |
| At 5 docs                                                                                                                                                             | 0.1652    | 0.1275 | 37 | 0.8043 |
| At 10 docs                                                                                                                                                            | 0.1261    | 0.0282 | 39 | 0.8478 |
| At 15 docs                                                                                                                                                            | 0.1087    | 0.0765 | 35 | 0.7609 |
| At 20 docs                                                                                                                                                            | 0.0957    | 0.1133 | 29 | 0.6304 |



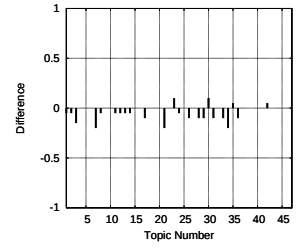
Difference from Median in Precision at Top-ranked 10 Documents per Topic (over 9 'automatic' and 'DISC only' runs)\*



Difference from Median in Precision at Top-ranked 20 Documents per Topic (over 9 'automatic' and 'DISC only' runs)\*

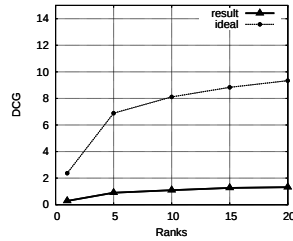


Difference from Median in Precision at Top-ranked 10 Documents per Topic (over 9 'automatic' and 'DISC only' runs)\*\*



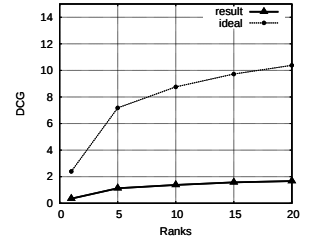
Difference from Median in Precision at Top-ranked 20 Documents per Topic (over 9 'automatic' and 'DISC only' runs)\*\*

| Discounted ( $\log_2$ ) Cumulative Gain Averages ( $G_S = 3, G_A = 2, G_B = 0$ ) |        |
|----------------------------------------------------------------------------------|--------|
|                                                                                  | DCG    |
| At 1 doc                                                                         | 0.2826 |
| At 5 doc                                                                         | 0.8997 |
| At 10 docs                                                                       | 1.0932 |
| At 15 docs                                                                       | 1.2632 |
| At 20 docs                                                                       | 1.3171 |



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

| Discounted ( $\log_2$ ) Cumulative Gain Averages ( $G_S = 3, G_A = 2, G_B = 1$ ) |        |
|----------------------------------------------------------------------------------|--------|
|                                                                                  | DCG    |
| At 1 doc                                                                         | 0.3478 |
| At 5 doc                                                                         | 1.1283 |
| At 10 docs                                                                       | 1.3798 |
| At 15 docs                                                                       | 1.5735 |
| At 20 docs                                                                       | 1.6696 |



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, 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 )

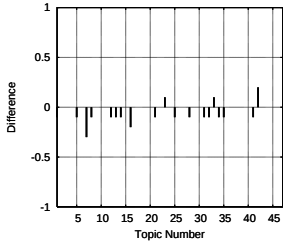
## (2) Evaluation Result with Considering Links

| Summary Statistics  |                 |
|---------------------|-----------------|
| Run ID              | NAICR-II-B-2    |
| Subtask             | II-B            |
| Relevant Level      | Level1 (H or A) |
| Query Method        | automatic       |
| Topic Part          | DISC only       |
| Contents/Links Used | contents only   |
| Number of Topics    | 46              |

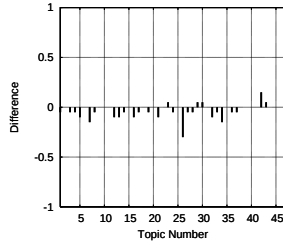
| Summary Statistics  |                    |
|---------------------|--------------------|
| Run ID              | NAICR-II-B-2       |
| Subtask             | II-B               |
| Relevant Level      | Level2 (H, A or B) |
| Query Method        | automatic          |
| Topic Part          | DISC only          |
| 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                                                                                                                                                             | 0.1130    | 0.0851 | 40 | 0.8511 |
| At 10 docs                                                                                                                                                            | 0.1065    | 0.0532 | 39 | 0.8298 |
| At 15 docs                                                                                                                                                            | 0.0971    | 0.0742 | 38 | 0.8085 |
| At 20 docs                                                                                                                                                            | 0.0859    | 0.1076 | 32 | 0.6809 |

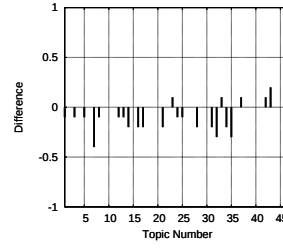
| Document Level Precision Averages, Mean Reciprocal Rank (MRR), and the Number (#) and Percentage (%) of Topics for which No Relevant Document (Level2) were Retrieved |           |        |    |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------|----|--------|
|                                                                                                                                                                       | Precision | MRR    | #  | %      |
| At 5 docs                                                                                                                                                             | 0.1787    | 0.1390 | 36 | 0.7660 |
| At 10 docs                                                                                                                                                            | 0.1574    | 0.0626 | 36 | 0.7660 |
| At 15 docs                                                                                                                                                            | 0.1362    | 0.1079 | 33 | 0.7021 |
| At 20 docs                                                                                                                                                            | 0.1234    | 0.1343 | 27 | 0.5745 |



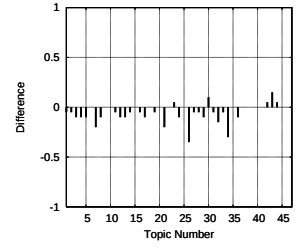
Difference from Median in Precision at Top-ranked 10 Documents per Topic (over 9 'automatic' and 'DISC only' runs)\*



Difference from Median in Precision at Top-ranked 20 Documents per Topic (over 9 'automatic' and 'DISC only' runs)\*

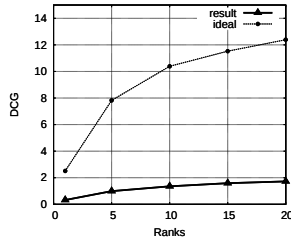


Difference from Median in Precision at Top-ranked 10 Documents per Topic (over 9 'automatic' and 'DISC only' runs)\*\*



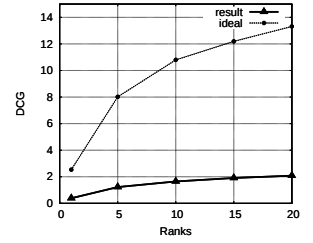
Difference from Median in Precision at Top-ranked 20 Documents per Topic (over 9 'automatic' and 'DISC only' runs)\*\*

| Discounted ( $\log_2$ ) Cumulative Gain Averages ( $G_S = 3, G_A = 2, G_B = 0$ ) |        |
|----------------------------------------------------------------------------------|--------|
|                                                                                  | DCG    |
| At 1 doc                                                                         | 0.3191 |
| At 5 doc                                                                         | 0.9902 |
| At 10 docs                                                                       | 1.3520 |
| At 15 docs                                                                       | 1.5882 |
| At 20 docs                                                                       | 1.7222 |



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

| Discounted ( $\log_2$ ) Cumulative Gain Averages ( $G_S = 3, G_A = 2, G_B = 1$ ) |        |
|----------------------------------------------------------------------------------|--------|
|                                                                                  | DCG    |
| At 1 doc                                                                         | 0.3830 |
| At 5 doc                                                                         | 1.2231 |
| At 10 docs                                                                       | 1.6476 |
| At 15 docs                                                                       | 1.9071 |
| At 20 docs                                                                       | 2.0824 |



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, 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 )

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