

| precision | recall | f_measure | average_precision | query_time(s) | average_query_time(s) | median_query_time(s) |
|-----------|--------|-----------|-------------------|---------------|-----------------------|----------------------|
| 0         | 0      | 0         | 0                 | 8.18          | 8.18                  | 8.18                 |
| 0.1       | 0.17   | 0.12      | 0.11              | 5.34          | 6.76                  | 6.76                 |
| 0.1       | 1      | 0.18      | 0.5               | 19.76         | 11.09                 | 8.18                 |
| 0         | 0      | 0         | 0                 | 11.1          | 11.09                 | 9.64                 |
| 0.3       | 0.75   | 0.43      | 0.44              | 8.65          | 10.6                  | 8.65                 |
| 0.1       | 1      | 0.18      | 1                 | 5.47          | 9.75                  | 8.41                 |
| 0.4       | 1      | 0.57      | 0.89              | 18.06         | 10.94                 | 8.65                 |
| 0.1       | 1      | 0.18      | 1                 | 1.97          | 9.82                  | 8.41                 |
| 0.1       | 1      | 0.18      | 1                 | 9.99          | 9.83                  | 8.65                 |
| 0.4       | 0.67   | 0.5       | 0.72              | 10.37         | 9.89                  | 9.32                 |
| 0.7       | 0.32   | 0.44      | 0.9               | 4.27          | 9.38                  | 8.65                 |
| 0         | 0      | 0         | 0                 | 5.53          | 9.06                  | 8.41                 |
| 0.2       | 1      | 0.33      | 1                 | 14.42         | 9.47                  | 8.65                 |
| 0.1       | 1      | 0.18      | 1                 | 10.35         | 9.53                  | 9.32                 |
| 0         | 0      | 0         | 0                 | 2.51          | 9.06                  | 8.65                 |
| 0.4       | 0.67   | 0.5       | 0.79              | 3.81          | 8.74                  | 8.41                 |
| 0.1       | 1      | 0.18      | 1                 | 3.46          | 8.43                  | 8.18                 |
| 0.1       | 1      | 0.18      | 1                 | 12.17         | 8.63                  | 8.41                 |
| 0         | 0      | 0         | 0                 | 10.58         | 8.74                  | 8.65                 |
| 0.7       | 0.47   | 0.56      | 0.76              | 7.43          | 8.67                  | 8.41                 |
| 0.8       | 0.57   | 0.67      | 1                 | 3.31          | 8.42                  | 8.18                 |
| 0.1       | 0.33   | 0.15      | 0.33              | 2.77          | 8.16                  | 7.8                  |
| 0.6       | 0.46   | 0.52      | 0.8               | 4.35          | 7.99                  | 7.43                 |
| 0.1       | 0.5    | 0.17      | 0.33              | 20.61         | 8.52                  | 7.8                  |
| 0.1       | 0.5    | 0.17      | 1                 | 9.33          | 8.55                  | 8.18                 |
| 0.3       | 0.33   | 0.32      | 0.7               | 6.45          | 8.47                  | 7.8                  |
| 0.2       | 1      | 0.33      | 1                 | 7.28          | 8.43                  | 7.43                 |
| 0         | 0      | 0         | 0                 | 5.96          | 8.34                  | 7.36                 |
| 0.2       | 1      | 0.33      | 1                 | 10.21         | 8.4                   | 7.43                 |
| 0         | 0      | 0         | 0                 | 9.36          | 8.43                  | 7.8                  |
| 0.8       | 0.38   | 0.52      | 0.93              | 7.33          | 8.4                   | 7.43                 |
| 0.2       | 1      | 0.33      | 0.38              | 2.55          | 8.22                  | 7.38                 |
| 0         | 0      | 0         | 0                 | 5.81          | 8.14                  | 7.33                 |
| 0.1       | 1      | 0.18      | 1                 | 21.21         | 8.53                  | 7.38                 |
| 0.7       | 0.88   | 0.78      | 0.85              | 3.32          | 8.38                  | 7.33                 |
| 0.8       | 0.57   | 0.67      | 0.7               | 10.43         | 8.44                  | 7.38                 |
| 0.2       | 1      | 0.33      | 1                 | 8.08          | 8.43                  | 7.43                 |
| 0.1       | 1      | 0.18      | 1                 | 11.16         | 8.5                   | 7.76                 |
| 0.5       | 0.83   | 0.62      | 0.88              | 13.81         | 8.63                  | 8.08                 |
| 0.2       | 1      | 0.33      | 0.5               | 1.95          | 8.47                  | 7.76                 |
| 0.7       | 0.32   | 0.44      | 0.77              | 4.71          | 8.38                  | 7.43                 |
| 0.5       | 1      | 0.67      | 0.69              | 15.9          | 8.55                  | 7.76                 |
| 0.1       | 1      | 0.18      | 1                 | 1.49          | 8.39                  | 7.43                 |
| 0.1       | 1      | 0.18      | 0.33              | 6.72          | 8.35                  | 7.38                 |
| 0         | 0      | 0         | 0                 | 4.29          | 8.26                  | 7.33                 |
| 0.1       | 1      | 0.18      | 1                 | 9.89          | 8.3                   | 7.38                 |
| 0         | 0      | 0         | 0                 | 9.02          | 8.31                  | 7.43                 |
| 0         | 0      | 0         | 0                 | 3.06          | 8.2                   | 7.38                 |
| 0.4       | 0.5    | 0.44      | 0.88              | 6.24          | 8.16                  | 7.33                 |

|     |      |      |      |       |      |      |
|-----|------|------|------|-------|------|------|
| 0.2 | 0.67 | 0.31 | 0.27 | 12.73 | 8.25 | 7.38 |
| 0   | 0    | 0    | 0    | 8.9   | 8.27 | 7.43 |
| 0.3 | 0.6  | 0.4  | 0.36 | 4.42  | 8.19 | 7.38 |
| 0   | 0    | 0    | 0    | 9.62  | 8.22 | 7.43 |
| 0.6 | 0.5  | 0.55 | 0.54 | 1.99  | 8.11 | 7.38 |
| 0   | 0    | 0    | 0    | 2.93  | 8.01 | 7.33 |
| 0.4 | 0.44 | 0.42 | 0.75 | 1.3   | 7.89 | 7.31 |
| 0.1 | 1    | 0.18 | 0.12 | 3.1   | 7.81 | 7.28 |
| 0.2 | 1    | 0.33 | 1    | 4.68  | 7.75 | 7    |
| 0   | 0    | 0    | 0    | 9.86  | 7.79 | 7.28 |
| 0.3 | 1    | 0.46 | 1    | 3     | 7.71 | 7    |
| 0.4 | 0.57 | 0.47 | 0.59 | 5.52  | 7.67 | 6.72 |
| 0   | 0    | 0    | 0    | 4.83  | 7.63 | 6.59 |
| 0   | 0    | 0    | 0    | 6.32  | 7.61 | 6.45 |
| 0   | 0    | 0    | 0    | 8.93  | 7.63 | 6.59 |
| 0.3 | 0.38 | 0.33 | 0.39 | 7.9   | 7.63 | 6.72 |
| 0.3 | 0.5  | 0.37 | 0.7  | 5.66  | 7.6  | 6.59 |
| 0   | 0    | 0    | 0    | 2.24  | 7.52 | 6.45 |
| 0.7 | 0.7  | 0.7  | 0.8  | 3.55  | 7.46 | 6.38 |
| 0.1 | 1    | 0.18 | 0.33 | 3     | 7.4  | 6.32 |
| 0.1 | 1    | 0.18 | 1    | 3.71  | 7.35 | 6.28 |
| 0.2 | 0.22 | 0.21 | 0.27 | 4.91  | 7.31 | 6.24 |
| 0   | 0    | 0    | 0    | 4.32  | 7.27 | 6.1  |
| 0.1 | 1    | 0.18 | 0.5  | 8.21  | 7.28 | 6.24 |
| 0.1 | 1    | 0.18 | 0.5  | 5.47  | 7.26 | 6.1  |
| 0   | 0    | 0    | 0    | 3.02  | 7.2  | 5.96 |
| 0.1 | 1    | 0.18 | 0.5  | 1.89  | 7.13 | 5.89 |
| 0.2 | 0.67 | 0.31 | 0.83 | 2.93  | 7.08 | 5.81 |
| 0.1 | 1    | 0.18 | 1    | 1.38  | 7    | 5.74 |
| 0   | 0    | 0    | 0    | 4.03  | 6.97 | 5.66 |
| 0   | 0    | 0    | 0    | 11.58 | 7.02 | 5.74 |
| 0.3 | 1    | 0.46 | 1    | 1.62  | 6.96 | 5.66 |
| 0.1 | 0.14 | 0.12 | 1    | 5.73  | 6.94 | 5.7  |
| 0   | 0    | 0    | 0    | 4.94  | 6.92 | 5.66 |
| 0.3 | 0.75 | 0.43 | 0.79 | 3.9   | 6.88 | 5.59 |
| 0   | 0    | 0    | 0    | 4.06  | 6.85 | 5.53 |
| 0.1 | 1    | 0.18 | 1    | 3.01  | 6.8  | 5.53 |
| 0.1 | 0.33 | 0.15 | 0.12 | 3.98  | 6.77 | 5.52 |
| 0   | 0    | 0    | 0    | 4.77  | 6.75 | 5.5  |
| 0   | 0    | 0    | 0    | 3.11  | 6.71 | 5.47 |
| 0.1 | 1    | 0.18 | 1    | 0.48  | 6.64 | 5.47 |
| 0   | 0    | 0    | 0    | 2.21  | 6.59 | 5.47 |
| 0.1 | 0.2  | 0.13 | 0.2  | 3.28  | 6.55 | 5.4  |
| 0.7 | 1    | 0.82 | 0.91 | 4.13  | 6.53 | 5.34 |
| 0.6 | 0.67 | 0.63 | 0.52 | 1.57  | 6.48 | 5.14 |
| 0   | 0    | 0    | 0    | 17.07 | 6.59 | 5.34 |
| 0   | 0    | 0    | 0    | 5.2   | 6.57 | 5.27 |
| 0   | 0    | 0    | 0    | 3.07  | 6.54 | 5.2  |
| 0   | 0    | 0    | 0    | 2.03  | 6.49 | 5.07 |
| 0.3 | 0.6  | 0.4  | 0.33 | 2.32  | 6.45 | 4.94 |

0.5

0.29

0.37

0.61

8.62

6.47

5.07