|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **P@1** | **P@3** | **P@5** | **P@10** | **R@1** | **R@3** | **R@5** | **R@10** |
| 0.207 | 0.171 | 0.145 | 0.110 | 0.029 | 0.076 | 0.107 | 0.162 |
| **nDCG@1** | **nDCG@3** | **nDCG@5** | **nDCG@10** | **MRR** |
| 0.006 | 0.008 | 0.010 | 0.012 | 0.403 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Metric/Model | Doc2vec | Formula2vec | Combined | MIaS | Tangent-CFT | Tangent |
| P@1 | 0.045 | 0.001 | 0.021 | 0.001 | 0.002 | 0.157 |
| P@3 | 0.031 | 0.001 | 0.015 | 0.001 | 0.001 | 0.001 |
| P@5 | 0.027 | 0.001 | 0.014 | 0.001 | 0.001 | 0.001 |
| nDCG@5 | 0.020 | 0.001 | 0.010 | 0.001 | 0.001 | 0.001 |
| MRR | 0.077 | 0.002 | 0.040 | 0.030 | 0.948 | 0.332 |