Documents

means full text of

Citation Network

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Embedding Method | recall@10 | recall@20 | recall@50 | recall@100 |
| Text-Based Embedding |  |  |  |  |
| document2vec-TF | 0.077763 | 0.110505 | 0.169168 | 0.231924 |
| document2vec-TFIDF | **0.160226** | **0.232799** | **0.33459** | **0.423186** |
| document2vec-Word2vec | 0.097078 | 0.144204 | 0.220547 | 0.298775 |
| document2vec-Para2vec | 0.129123 | 0.196041 | 0.303487 | 0.405278 |
| CitationContext2Document-Word2vec | 0.107446 | 0.155514 | 0.233742 | 0.298775 |
| CitationContext2Document-TFIDF | 0.118756 | 0.180019 | 0.30443 | 0.400566 |
| CitationContext2Document-TF | 0.118756 | 0.179076 | 0.262959 | 0.332705 |
| CitationContext2Document-Para2vec | 0.159284 | 0.223374 | 0.322337 | 0.423186 |
| Modified Citation Network |  |  |  |  |
| CitationNetwork-1st | 0.099906 | 0.168709 | 0.303487 | 0.419416 |
| CitationNetwork-2nd | 0.073516 | 0.117813 | 0.203582 | 0.282752 |
| CitationNetworkBi-2nd | 0.073516 | 0.110273 | 0.204524 | 0.284637 |
| CocitedNetwork | 0.087653 | 0.148916 | 0.250707 | 0.331762 |
| CocitingNetwork | 0.034873 | 0.059378 | 0.114043 | 0.180961 |
| CitationNetworkPlusCocitedNetwork | 0.094251 | 0.163996 | 0.291235 | 0.39868 |
| CitationNetworkPlusCocitingNetwork | 0.03393 | 0.068803 | 0.133836 | 0.211122 |
| Weight Modified Citation Network |  |  |  |  |
| WeightCCitedNbyContextSim-Para2vec | 0.075401 | 0.131951 | 0.216777 | 0.298775 |
| WeightCCitedNbyContextSim-TFIDF | 0.098021 | 0.149859 | 0.231857 | 0.310085 |
| WeightCCitedNbyContextSim-Word2vec | 0.070688 | 0.125353 | 0.207352 | 0.278982 |
| WeightCNbyOwnerText-ContextSimilarity | 0.017908 | 0.02639 | 0.039585 | 0.06409 |
| WeightCNbyTargetText-ContextSimilarity | 0.01131 | 0.019793 | 0.03393 | 0.043355 |
| Good-Customer Model |  |  |  |  |
| Goods-Based-Balance | 0.079171 | 0.137606 | 0.229972 | 0.30443 |
| Goods-Based-Quality | 0.065033 | 0.109331 | 0.196984 | 0.278982 |
| Goods-Based-Quantity | 0.086711 | 0.145146 | 0.241282 | 0.341188 |
| Customer-Based-Balance | 0.044298 | 0.074458 | 0.130066 | 0.194156 |
| Customer-Based-Quality | 0.0377 | 0.062205 | 0.109331 | 0.166824 |
| Customer-Based-Quantity | 0.038643 | 0.06409 | 0.117813 | 0.177191 |
| CNInitializedbyText-BasedEmbedding |  |  |  |  |
| rho = 0.01 | 0.162111 | 0.256362 | 0.39491 | 0.507069 |
| rho = 0.02 | 0.170594 | 0.27804 | 0.413761 | 0.526861 |
| rho = 0.1 | 0.165881 | 0.269557 | 0.416588 | 0.532516 |
| rho = 0.25 | 0.131008 | 0.217719 | 0.37983 | 0.495759 |

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