**Experiment Result**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| worst case rank K(s) of correct result | Success rate s (as percentage of queries) | | | |
| Without Any Normalization | With Length Normalization Only | With Scale Normalization Only | With Scale and Length Normalization |
| 10 | 37.28 | 46.81 | 58.13 | 73.45 |
| 20 | 48.28 | 58.49 | 69.27 | 82.65 |
| 30 | 55.79 | 66.57 | 75.20 | 86.97 |
| 40 | 60.73 | 70.79 | 79.42 | 88.31 |
| 50 | 65.67 | 75.02 | 82.03 | 90.11 |



**Conclusion**

The experiment result increase significantly with length and scale normalization.