**专利keyword实验结果(人工标注取5、10个)**

**空调：**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | frequency(%) | | TF-IDF(%) | | textRank(%) | | ours(%) | |
| truth\_top |  | 5 | 10 | 5 | 10 | 5 | 10 | 5 | 10 |
| 谢育欣 | top5 | 44.00 | 32.00 | 38.40 | **31.00** | 37.60 | 29.00 | **39.80** | 28.60 |
| top10 | 69.20 | 55.70 | 55.60 | 52.30 | 58.40 | 49.30 | **62.20** | **54.00** |
| top15 | 84.60 | 72.10 | 70.80 | 67.50 | 68.60 | 62.70 | **76.60** | **71.00** |
| top20 | 94.00 | 84.20 | 78.00 | 76.50 | 76.80 | 72.90 | **86.20** | **85.30** |
| 植文武 | top5 | 41.80 | 30.17 | 38.60 | **29.54** | 34.80 | 26.58 | 37.20 | 26.27 |
| top10 | 67.80 | 52.32 | 59.40 | **50.21** | 57.80 | 46.31 | 59.00 | 47.68 |
| top15 | 85.00 | 69.09 | 75.40 | **65.08** | 69.00 | 60.02 | 72.80 | 64.66 |
| top20 | 93.20 | 79.54 | 81.80 | 75.63 | 76.80 | 70.25 | 83.60 | **76.79** |
| 综合 | top5 |  |  |  |  |  |  |  |  |
| top10 |  |  |  |  |  |  |  |  |
| top15 |  |  |  |  |  |  |  |  |
| top20 |  |  |  |  |  |  |  |  |

**电视：**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | frequency(%) | | TF-IDF(%) | | textRank(%) | | ours(%) | |
| truth\_top | | 5 | 10 | 5 | 10 | 5 | 10 | 5 | 10 |
| 余道远 | top5 | 58.00 | 41.91 | 48.40 | 39.30 | 46.60 | 36.08 | 29.60 | 24.12 |
| top10 | 79.60 | 67.94 | 71.00 | 64.32 | 64.20 | 57.19 | 54.60 | 47.64 |
| top15 | 90.20 | 82.51 | 79.80 | 77.19 | 76.40 | 71.16 | 73.20 | 67.24 |
| top20 | 93.40 | 88.04 | 84.80 | 83.02 | 81.20 | 78.09 | 83.40 | 80.50 |
| 丁晗 | top5 | 49.20 | 34.17 | 43.80 | 33.65 | 41.60 | 30.62 | 29.80 | 21.84 |
| top10 | 72.60 | 58.31 | 64.40 | 56.11 | 60.20 | 50.78 | 54.60 | 44.83 |
| top15 | 87.60 | 73.98 | 75.00 | 69.28 | 71.60 | 63.85 | 73.20 | 65.73 |
| top20 | 93.40 | 82.76 | 82.00 | 78.27 | 77.40 | 73.35 | 82.80 | 79.00 |
| 综合 | top5 |  |  |  |  |  |  |  |  |
| top10 |  |  |  |  |  |  |  |  |
| top15 |  |  |  |  |  |  |  |  |
| top20 |  |  |  |  |  |  |  |  |

**清洁：**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | frequency(%) | | TF-IDF(%) | | textRank(%) | | ours(%) | |
| truth\_top | | 5 | 10 | 5 | 10 | 5 | 10 | 5 | 10 |
| 周明 | top5 | 40.60 | 31.12 | 34.80 | 29.17 | 29.80 | 25.08 | 32.80 | 22.42 |
| top10 | 65.40 | 52.10 | 55.80 | 49.85 | 47.00 | 43.30 | 51.40 | 39.51 |
| top15 | 85.00 | 68.68 | 68.00 | 63.97 | 60.00 | 56.09 | 63.60 | 53.74 |
| top20 | 94.40 | 81.06 | 74.40 | 71.95 | 68.60 | 65.51 | 73.80 | 64.79 |
| 唐雪涛 | top5 | 39.00 | 30.84 | 31.00 | 27.05 | 27.40 | 24.32 | 42.80 | 31.58 |
| top10 | 58.80 | 49.58 | 49.20 | 45.26 | 44.60 | 41.68 | 63.00 | 52.11 |
| top15 | 76.00 | 64.63 | 61.60 | 57.05 | 54.80 | 53.37 | 73.20 | 64.84 |
| top20 | 85.80 | 73.26 | 69.60 | 65.58 | 65.20 | 63.68 | 80.80 | 75.16 |
| 综合 | top5 |  |  |  |  |  |  |  |  |
| top10 |  |  |  |  |  |  |  |  |
| top15 |  |  |  |  |  |  |  |  |
| top20 |  |  |  |  |  |  |  |  |

**冰箱：**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | frequency(%) | | TF-IDF(%) | | textRank(%) | | ours(%) | |
| truth\_top | | 5 | 10 | 5 | 10 | 5 | 10 | 5 | 10 |
| 谢育欣 | top5 | 51.6 | 34.63 | 45.2 | 34.83 | 39.6 | 28.32 | 40.6 | 28.42 |
| top10 | 78.4 | 56.05 | 63.8 | 53.95 | 59.8 | 47.94 | 60.4 | 47.94 |
| top15 | 89.2 | 69.56 | 75.2 | 68.76 | 69.8 | 62.06 | 75.4 | 64.46 |
| top20 | 95.2 | 78.07 | 81.6 | 77.97 | 76.2 | 71.87 | 84.2 | 77.67 |
| 植文武 | top5 | 54.74 | 36.4 | 48.48 | 35.76 | 43.83 | 30.62 | 34.94 | 26.55 |
| top10 | 77.97 | 58.5 | 66.86 | 55.93 | 61.21 | 48.55 | 53.53 | 43.1 |
| top15 | 86.26 | 71.55 | 75.35 | 68.34 | 70.1 | 60.85 | 68.48 | 57.54 |
| top20 | 93.13 | 79.89 | 79.59 | 75.18 | 77.57 | 70.58 | 78.58 | 70.26 |
| 综合 | top5 |  |  |  |  |  |  |  |  |
| top10 |  |  |  |  |  |  |  |  |
| top15 |  |  |  |  |  |  |  |  |
| top20 |  |  |  |  |  |  |  |  |

**洗衣机：**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | frequency(%) | | TF-IDF(%) | | textRank(%) | | ours(%) | |
| truth\_top | | 5 | 10 | 5 | 10 | 5 | 10 | 5 | 10 |
| 李玉玲 | top5 | 49.4 | 37.11 | 39.6 | **34.98** | 40.4 | 32.96 | **46** | 34.48 |
| top10 | 75.2 | 60.95 | 61.8 | **57.09** | 62.4 | 52.83 | **66.4** | 55.88 |
| top15 | 86 | 73.83 | 73.8 | 70.18 | 73.8 | 67.24 | **79.6** | **72.31** |
| top20 | 93 | 82.25 | 81.8 | 80.52 | 81.2 | 77.28 | **87.2** | **83.26** |
| 岳永政 | top5 | 51.5 | 39.73 | **43.86** | **38.75** | 42.85 | 34.96 | 38.83 | 29.95 |
| top10 | 77.06 | 65.03 | **63.98** | **60.14** | 62.17 | 54.52 | 59.95 | 50.73 |
| top15 | 87.12 | 77.5 | **76.45** | **72.73** | 72.03 | 67.6 | 72.23 | 65.77 |
| top20 | 93.15 | 85.94 | **83.09** | **81.17** | 81.48 | 77.26 | 81.08 | 76.03 |
| 综合 | top5 |  |  |  |  |  |  |  |  |
| top10 |  |  |  |  |  |  |  |  |
| top15 |  |  |  |  |  |  |  |  |
| top20 |  |  |  |  |  |  |  |  |

**电话：**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | frequency(%) | | TF-IDF(%) | | textRank(%) | | Ours(%) | |
| truth\_top | | 5 | 10 | 5 | 10 | 5 | 10 | 5 | 10 |
| 余道远 | top5 | 56.53 | 41.72 | **49.18** | **39.88** | 48.78 | 37.93 | 37.14 | 27.30 |
| top10 | 78.77 | 68.30 | **67.55** | **63.91** | 66.32 | 59.82 | 57.14 | 49.18 |
| top15 | 87.75 | 82.82 | **76.53** | **76.89** | 75.91 | 71.88 | 71.42 | 67.79 |
| top20 | 91.02 | 88.04 | **83.06** | **83.74** | 82.44 | 81.19 | 81.22 | 79.65 |
| 丁晗 | top5 | 52.20 | 37.87 | 43.60 | **36.95** | **47.80** | 34.90 | 39.00 | 26.61 |
| top10 | 74.60 | 61.92 | **64.60** | **60.39** | 64.40 | 53.22 | 59.00 | 48.93 |
| top15 | 86.40 | 77.58 | **76.20** | **73.80** | 75.20 | 66.33 | 72.80 | 69.19 |
| top20 | 89.60 | 86.28 | 82.60 | **81.88** | **83.00** | 77.38 | 81.20 | 81.37 |
| 综合 | top5 |  |  |  |  |  |  |  |  |
| top10 |  |  |  |  |  |  |  |  |
| top15 |  |  |  |  |  |  |  |  |
| top20 |  |  |  |  |  |  |  |  |