**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 | 63.60 | 38.40 | **61.60** | 37.60 | 57.60 | **39.80** | 56.80 |
| top10 | 34.60 | 55.40 | 27.80 | 52.00 | 29.20 | 49.00 | **31.10** | **53.80** |
| top15 | 28.45 | 48.29 | 23.81 | 45.19 | 23.07 | 41.96 | **25.76** | **47.61** |
| top20 | 24.34 | 43.45 | 20.20 | 39.46 | 19.89 | 37.60 | **22.32** | **44.02** |
| 植文武 | top5 | 41.80 | 57.20 | **38.60** | **56.00** | 34.80 | 50.40 | 37.20 | 49.80 |
| top10 | 33.90 | 49.60 | **29.70** | **47.60** | 28.90 | 43.90 | 29.50 | 45.20 |
| top15 | 28.58 | 44.05 | **25.35** | **41.49** | 23.20 | 38.26 | 24.48 | 41.22 |
| top20 | 24.13 | 39.05 | 21.18 | 37.13 | 19.89 | 34.49 | **21.65** | **37.70** |
| 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 | 57.80 | 81.60 | **48.40** | **77.00** | 46.40 | 70.80 | 29.40 | 47.00 |
| top10 | 39.74 | 66.47 | **35.44** | **62.96** | 32.03 | 56.16 | 27.23 | 46.55 |
| top15 | 30.53 | 54.82 | **27.00** | **51.22** | 25.85 | 47.35 | 24.76 | 44.57 |
| top20 | 24.64 | 45.64 | **22.37** | **42.99** | 21.42 | 40.56 | 22.00 | 41.72 |
| 丁晗 | top5 | 49.00 | 64.80 | **43.60** | **63.80** | 41.40 | 58.00 | 29.80 | 41.60 |
| top10 | 36.24 | 55.46 | **32.13** | **53.35** | 30.03 | 48.35 | 27.23 | 42.64 |
| top15 | 29.65 | 47.76 | **25.37** | **44.71** | 24.22 | 41.25 | 24.76 | 42.40 |
| top20 | 24.64 | 41.67 | 21.63 | 39.40 | 20.41 | 36.96 | **21.84** | **39.77** |
| 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 | 40.40 | 60.00 | **34.60** | **56.40** | 29.60 | 48.60 | 32.80 | 43.60 |
| top10 | 32.60 | 50.50 | **27.70** | **48.20** | 23.40 | 41.90 | 25.60 | 38.40 |
| top15 | 28.28 | 44.52 | **22.59** | **41.38** | 19.99 | 36.30 | 21.12 | 34.83 |
| top20 | 23.88 | 39.94 | **18.80** | **35.42** | 17.38 | 32.27 | 18.65 | 31.96 |
| 唐雪涛 | top5 | 38.40 | 57.60 | 30.60 | 50.40 | 27.00 | 45.40 | **42.40** | **59.40** |
| top10 | 29.10 | 46.30 | 24.40 | 42.40 | 22.10 | 39.10 | **31.20** | **48.90** |
| top15 | 25.20 | 40.51 | 20.39 | 35.76 | 18.18 | 33.49 | **24.26** | **40.78** |
| top20 | 21.65 | 34.96 | 17.53 | 31.25 | 16.46 | 30.44 | **20.38** | **35.92** |
| 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 | 51.60 | 69.20 | **45.20** | **69.60** | 39.60 | 56.60 | 40.60 | 56.60 |
| top10 | 39.24 | 55.96 | **31.93** | **53.95** | 29.93 | 47.85 | 30.23 | 48.25 |
| top15 | 29.89 | 46.51 | 25.20 | **46.05** | 23.39 | 41.49 | **25.27** | 43.30 |
| top20 | 24.54 | 40.15 | 21.03 | **40.10** | 19.64 | 36.55 | **21.70** | 39.79 |
| 植文武 | top5 | 54.20 | 68.00 | **48.00** | **66.60** | 43.40 | 57.00 | 34.60 | 49.20 |
| top10 | 38.64 | 54.65 | **33.13** | **52.05** | 30.33 | 45.25 | 26.53 | 40.24 |
| top15 | 28.62 | 44.64 | **25.00** | **42.63** | 23.26 | 37.94 | 22.72 | 35.99 |
| top20 | 23.76 | 38.30 | **20.31** | **36.03** | 19.79 | 33.56 | 20.05 | 33.61 |
| 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 | 49.40 | 72.80 | 39.60 | **68.60** | 40.40 | 64.80 | **46.00** | 68.00 |
| top10 | 37.75 | 60.14 | 31.02 | **56.33** | 31.33 | 52.21 | **33.33** | 55.12 |
| top15 | 29.13 | 49.19 | 25.00 | 46.75 | 25.00 | 44.85 | **26.96** | **48.17** |
| top20 | 24.33 | 42.33 | 21.40 | 41.44 | 21.25 | 39.82 | **22.82** | **42.86** |
| 岳永政 | top5 | 51.20 | 65.00 | **43.60** | **63.20** | 42.60 | 57.00 | 38.60 | 49.00 |
| top10 | 38.45 | 53.31 | **31.93** | **49.30** | 31.02 | 44.68 | 29.92 | 41.67 |
| top15 | 29.34 | 42.89 | **25.75** | **40.24** | 24.25 | 37.33 | 24.32 | 36.38 |
| top20 | 24.23 | 36.68 | **21.61** | **34.64** | 21.19 | 32.91 | 21.09 | 32.50 |
| 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 | 55.40 | 81.00 | **48.20** | **77.60** | 47.80 | 73.60 | 36.40 | 53.20 |
| top10 | 38.64 | 66.47 | **33.13** | **62.16** | 32.53 | 58.16 | 28.03 | 47.85 |
| top15 | 28.88 | 54.13 | **25.18** | **50.24** | 24.98 | 46.88 | 23.51 | 44.33 |
| top20 | 23.61 | 45.37 | **21.55** | **43.14** | 21.39 | 41.77 | 21.07 | 41.08 |
| 丁晗 | top5 | 52.20 | 72.40 | 43.60 | **70.80** | **47.80** | 66.60 | 39.00 | 51.60 |
| top10 | 37.34 | 59.76 | **32.33** | **58.26** | 32.23 | 51.15 | 29.53 | 47.45 |
| top15 | 29.01 | 50.30 | **25.59** | **47.82** | 25.25 | 42.91 | 24.45 | 45.06 |
| top20 | 23.72 | 44.15 | 21.86 | **41.87** | **21.97** | 39.49 | 21.49 | 41.72 |
| 综合 | top5 |  |  |  |  |  |  |  |  |
| top10 |  |  |  |  |  |  |  |  |
| top15 |  |  |  |  |  |  |  |  |
| top20 |  |  |  |  |  |  |  |  |