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| --- | --- | --- | --- | --- | --- |
| Methods | Ext | R | P | F | FPS |
| TextSnake [18] | Syn | 85.3 | 67.9 | 75.6 |  |
| CSE [17] | MLT | 76.1 | 78.7 | 77.4 | 0.38 |
| LOMO[40] | Syn | 76.5 | 85.7 | 80.8 | 4.4 |
| ATRR[35] | Sy- | 80.2 | 80.1 | 80.1 | - |
| SegLink++ [28] | Syn | 79.8 | 82.8 | 81.3 | - |
| TextField [37] | Syn | 79.8 | 83.0 | 81.4 | 6.0 |
| MSR[38] | Syn | 79.0 | 84.1 | 81.5 | 4.3 |
| PSENet-1s [33] | MiLT | 79.7 | 84.8 | 82.2 | 3.9 |
| DB [12] | Syn | 80.2 | 86.9 | 83.4 | 22.0 |
| CRAFT [2] | Syn | 81.1 | 86.0 | 83.5 |  |
| TextDragon [5] | MLT+ | 82.8 | 84.5 | 83.6 |  |
| PAN [34] | Syn | 81.2 | 86.4 | 83.7 | 39.8 |
| ContourNet [36] |  | 84.1 | 83.7 | 83.9 | 4.5 |
| DRRG [41] | MLT | 83.02 | 85.93 | 84.45 | - |
| TextPerception[23] | Syn | 81.9 | 87.5 | 84.6 |  |
| Ours | - | 80.57 | 87.66 | 83.97 | 12.08 |
| Ours | Syn | 81.45 | 87.81 | 84.51 | 12.15 |
| Ours | MiLT | 83.60 | 86.45 | 85.00 | 12.21 |

CTWi500.Intesting,thethresholdthsissetto0.8. Representative visible resultsare shown inFig.8 (c)and (d),whichindicateourmethodpreciselydetectsbound- aries of long curved text with line-level.The quantitative results are listed inTab.6.Compared with the previous sate-of-the-artmethods[12,34,36],our approachachieves

Table 7. Experimental results on MSRA-TD500

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Methods | R | P | F | FPS |
| SegLink [26] | 70.0 | 86.0 | 77.0 | 8.9 |
| PixelLink [4] | 73.2 | 83.0 | 77.8 | - |
| TextSnake [18] | 73.9 | 83.2 | 78.3 | 1.1 |
| TextField [37] | 75.9 | 87.4 | 81.3 | 5.2 |
| MSR[38] | 76.7 | 87.4 | 81.7 | - |
| FTSN [3] | 77.1 | 87.6 | 82.0 | - |
| LSE[30] | 81.7 | 84.2 | 82.9 | - |
| CRAFT [2] | 78.2 | 88.2 | 82.9 | 8.6 |
| MCN [16] | .79 | 88 | 83 | - |
| ATRR[35] | 82.1 | 85.2 | 83.6 | - |
| PAN [34] | 83.8 | 84.4 | 84.1 | 30.2 |
| DB[12] | 79.2 | 91.5 | 84.9 | 32.0 |
| DRRG [41] | 82.30 | 88.05 | 85.08 | - |
| Ours (SynText) | 80.68 | 85.40 | 82.97 | 12.68 |
| Ours (MLT-17) | 84.54 | 86.62 | 85.57 | 12.31 |

# 5.Conclusion

Inthispaper,weproposeanoveladaptivebound- aryproposal networkfor arbitrary shapetext detection, whichadopt anboundaryproposal model togenerate coarse boundaryproposals,andthen adoptan adaptiveboundary deformationmodelcombinedwithGCNandRNNtoper