

Table 13: Segmentation results of each class on the `test` split of nuScenes. We underline the best performance in each category.

| Model | mIoU | <i>barrier</i> | <i>bicycle</i> | <i>bus</i> | <i>car</i> | <i>construction vehicle</i> | <i>motorcycle</i> | <i>pedestrian</i> | <i>traffic cone</i> | <i>trailer</i> | <i>truck</i> | <i>driveable surface</i> | <i>other flat</i> | <i>sidewalk</i> | <i>terrain</i> | <i>manmade</i> | <i>vegetation</i> |
|--------------------|-------------|----------------|----------------|-------------|-------------|---------------------------------|-------------------|-------------------|---------------------|----------------|--------------|------------------------------|-------------------|-----------------|----------------|----------------|-------------------|
| PolarNet [74] | 69.8 | 80.1 | 19.9 | 78.6 | 84.1 | 53.2 | 47.9 | 70.5 | 66.9 | 70.0 | 56.7 | 96.7 | 68.7 | 77.7 | 72.0 | 88.5 | 85.4 |
| PolarStream [6] | 73.4 | 71.4 | 27.8 | 78.1 | 82.0 | 61.3 | 77.8 | 75.1 | 72.4 | 79.6 | 63.7 | 96.0 | 66.5 | 76.9 | 73.0 | 88.5 | 84.8 |
| JS3C-Net [62] | 73.6 | 80.1 | 26.2 | 87.8 | 84.5 | 55.2 | 72.6 | 71.3 | 66.3 | 76.8 | 71.2 | 96.8 | 64.5 | 76.9 | 74.1 | 87.5 | 86.1 |
| Cylinder3D [81] | 77.2 | 82.8 | 29.8 | 84.3 | 89.4 | 63.0 | 79.3 | 77.2 | 73.4 | 84.6 | 69.1 | 97.7 | 70.2 | 80.3 | 75.5 | 90.4 | 87.6 |
| AMVNet [33] | 77.3 | 80.6 | 32.0 | 81.7 | 88.9 | 67.1 | 84.3 | 76.1 | 73.5 | 84.9 | 67.3 | 97.5 | 67.4 | 79.4 | 75.5 | 91.5 | 88.7 |
| SPVNAS [48] | 77.4 | 80.0 | 30.0 | 91.9 | 90.8 | 64.7 | 79.0 | 75.6 | 70.9 | 81.0 | 74.6 | 97.4 | 69.2 | 80.0 | 76.1 | 89.3 | 87.1 |
| Cylinder3D++ [81] | 77.9 | 82.8 | 33.9 | 84.3 | 89.4 | 69.6 | 79.4 | 77.3 | 73.4 | 84.6 | 69.4 | 97.7 | 70.2 | 80.3 | 75.5 | 90.4 | 87.6 |
| AF2S3Net [13] | 78.3 | 78.9 | <u>52.2</u> | 89.9 | 84.2 | <u>77.4</u> | 74.3 | 77.3 | 72.0 | 83.9 | 73.8 | 97.1 | 66.5 | 77.5 | 74.0 | 87.7 | 86.8 |
| GASN [67] | 80.4 | 85.5 | 43.2 | 90.5 | 92.1 | 64.7 | 86.0 | 83.0 | 73.3 | 83.9 | 75.8 | 97.0 | 71.0 | 81.0 | <u>77.7</u> | 91.6 | <u>90.2</u> |
| SPVCNN++ [48] | 81.1 | <u>86.4</u> | 43.1 | 91.9 | 92.2 | 75.9 | 75.7 | 83.4 | 77.3 | 86.8 | <u>77.4</u> | 97.7 | <u>71.2</u> | 81.1 | 77.2 | 91.7 | 89.0 |
| LidarMultiNet [66] | 81.4 | 80.4 | 48.4 | <u>94.3</u> | 90.0 | 71.5 | 87.2 | <u>85.2</u> | 80.4 | 86.9 | 74.8 | 97.8 | 67.3 | 80.7 | 76.5 | 92.1 | 89.6 |
| LiDARFormer | 81.0 | 83.5 | 39.8 | 85.7 | 92.4 | 70.8 | <u>91.0</u> | 84.0 | 80.7 | <u>88.6</u> | 73.7 | 97.8 | 69.0 | 80.9 | 76.9 | 91.9 | 89.0 |
| LiDARFormer-TTA | <u>81.5</u> | 84.4 | 40.8 | 84.7 | <u>92.6</u> | 72.7 | <u>91.0</u> | 84.9 | <u>81.7</u> | <u>88.6</u> | 73.8 | <u>97.9</u> | 69.3 | <u>81.4</u> | 77.4 | <u>92.4</u> | 89.6 |