

Table 2. Segmentation results of the IOSNet and baselines (tested on n=100 patients).

Model	Mandible			Maxillary		
	mIoU(%)	ACC _f (%)	ACC _a (%)	mIoU(%)	ACC _f (%)	ACC _a (%)
CNN	85.32 [81.96, 88.69]	91.74 [89.77, 93.72]	93.75 [92.14, 95.36]	89.68 [86.90, 92.48]	94.14 [92.35, 95.93]	95.80 [94.37, 97.22]
PointNet	63.10 [57.90, 69.29]	79.67 [76.32, 83.01]	86.21 [83.93, 88.49]	59.05 [53.14, 64.95]	75.58 [71.63, 79.53]	80.95 [77.67, 84.24]
PointNet++	83.22 [81.38, 85.06]	91.49 [90.41, 92.57]	94.59 [93.91, 95.27]	85.82 [84.14, 87.50]	93.15 [91.92, 94.38]	95.65 [94.95, 96.35]
DGCNN	84.93 [83.27, 86.58]	92.74 [91.82, 93.65]	95.80 [95.18, 96.43]	88.70 [87.55, 89.86]	94.41 [93.73, 95.10]	96.94 [96.42, 97.45]
MeshSegNet	82.82[80.51, 85.13]	93.50[92.55, 94.45]	95.04[94.18, 95.90]	85.62[83.61, 87.64]	93.96[93.04, 94.88]	95.59[94.77, 96.41]
DCNet	91.93 [91.09, 92.78]	96.01 [95.42, 96.61]	97.98 [97.56, 98.41]	92.18 [91.02, 93.36]	95.99 [95.28, 96.71]	97.90 [97.33, 98.45]
IOSNet	90.37[88.69, 92.06]	96.82[96.44, 97.20]	97.96[97.61, 98.31]	92.50[91.44, 93.57]	97.11[96.79, 97.44]	98.27[97.97, 98.57]
IOSNet*	92.44[91.50, 93.37]	97.31[97.05, 97.57]	98.41[98.18, 98.64]	93.73[93.21, 94.25]	97.36[97.10, 97.62]	98.53[98.32, 98.74]
IOSNet**	93.70[92.15, 95.25]	98.14[97.78, 98.50]	98.81[98.49, 99.14]	95.70[94.80, 96.60]	98.35[98.08, 98.61]	99.05[98.82, 99.28]

w/o: without. mIoU: mean Intersection over Union, ACC_f: per-face accuracy, ACC_a: average-area accuracy.

[] indicates 95% confidence intervals. Bolden numbers indicate the best performance.

All baselines and IOSNet are trained on a small dataset with 4271 IOS scans.

IOSNet*: IOSNet trained on 28,000 scans without smoothing. IOSNet**: IOSNet* with smoothing.