

512^*
 512^*
 $(150 \sim$
 $284)$
 $(0.97 \sim$
 $1.36)^*$
 $(0.97 \sim$
 $1.36)^*$
 $(2 \sim$
 $2.5)$
 0.97^*
 0.97^*
 2
 $(-1000 \sim$
 $13000)$
 $(-800 \sim$
 $400)$
 512^*
 512^*
 384^*
 288
 $withlabel.png8cmSegTHOR :$
 $(-5, 5)$
 1.1
 0.9
 1.1
 $(31 \sim$
 $43)^*$
 $(40 \sim$
 $59)^*$
 $(24 \sim$
 $47)$
 48^*
 64^*
 48
 0.1
 $\underline{p_i =}$
 $\underline{\frac{exp(z_i)}{\sum_j exp(z_j)}}$
 \underline{i}
 $\underline{\frac{exp(z_i/T)}{\sum_j exp(z_j/T)}}$
 $D(p(z_t, T), p(z_s, T)) =$
 $-\sum_i p_i(z_{ti}, T) \log(p_i(z_{si}, T))$
 $\underline{z_t}$
 $\underline{z_s}$
 $\partial L_D(p(z_t, T), p(z_s, T)) \frac{p(z_t, T) - p(z_s, T)}{T} = \frac{1}{T} (\frac{exp(z_{si}/T)}{\sum_j exp(z_{sj}/T)} - \frac{exp(z_{ti}/T)}{\sum_j exp(z_{tj}/T)})$
 $\partial L_D(p(z_t, T), p(z_s, T)) \frac{1}{\partial z_{si}} (\frac{1 + \frac{z_{si}}{T}}{N + \sum_j \frac{z_{sj}}{T}} - \frac{1 + \frac{z_{ti}}{T}}{N + \sum_j \frac{z_{tj}}{T}})$
 $\partial L_D(p(z_t, T), p(z_s, T)) \frac{1}{\partial z_{si}} (\frac{1}{NT^2} (z_{si} - z_{ti}))$
 $s(y, p(z_s, T)) =$
 $-\sum_i y \log(p_i(z_{si}, T))$
 $\alpha_{TotalDistillation} =$
 $\alpha L_D(p(z_t, T), p(z_s, T)) +$
 $(1 -$
 $\alpha) L_S(y, p(z_s, T))$
 13^*
 13^*
 3^*
 3^*
 $\frac{N \sum_{i=1}^N y_i \log(p_i) + (1 - y_i) \log(1 - p_i)}{y_i}$
 $\underline{p_i}$
 0.25
 $D(p(z_s), p(z_t)) =$
 $L_{KL}(p(z_s), p(z_t)) =$
 $\sum p(z_s) \log(\frac{p(z_s)}{p(z_t)})$
 $\underline{total} =$
 $\alpha BCE(p(z_s), y) +$
 $(1 -$
 $\alpha) L_{KL}(p(z_s, T), p(z_t, T))$
 0.2
 0.21
 0.71
 0.93
 0.86
 0.82
 $0.73 \pm 0.130.95 \pm 0.020.93 \pm 0.030.86 \pm 0.08$
 $0.45 \pm 0.110.62 \pm 0.030.81 \pm 0.060.63 \pm 0.17$
 $0.62 \pm 0.130.91 \pm 0.040.89 \pm 0.070.79 \pm 0.18$
 $0.33 \pm 0.070.13 \pm 0.040.80 \pm 0.050.22 \pm 0.05$
 $0.54 \pm 0.130.79 \pm 0.090.88 \pm 0.050.64 \pm 0.17$
 $0.64 \pm 0.120.93 \pm 0.030.90 \pm 0.030.82 \pm 0.09$
 $0.38 \pm 0.090.60 \pm 0.030.77 \pm 0.070.56 \pm 0.16$
 $0.53 \pm 0.110.89 \pm 0.040.86 \pm 0.070.74 \pm 0.19$
 $0.29 \pm 0.050.09 \pm 0.030.76 \pm 0.050.22 \pm 0.04$
 $0.45 \pm 0.110.77 \pm 0.090.85 \pm 0.060.56 \pm 0.15$
 $4.54 \pm 0.618.11 \pm 1.484.16 \pm 0.446.12 \pm 0.61$
 $4.74 \pm 0.5310.34 \pm 0.564.52 \pm 0.547.64 \pm 1.16$
 $4.60 \pm 0.548.52 \pm 1.404.45 \pm 0.386.02 \pm 0.77$