Tight-Loose Pairs Mining Strategy

Batch Size=m×n
m: the number of object ID
n: the number of instances of each object ID

$\mathcal{L}_{id} + \mathcal{L}_{tri}$

Similarity Matrix (M_V)

tight samples

loose samples

average pooling

$\mathcal{L}_{tl}$

Image features   Tight features   Loose features   Feature center of tight samples   Feature center of loose samples

Similarity scores between samples with the same id   Similarity scores of matched samples   Similarity scores of unmatched samples