

Rabelled data D'= {(ni, yi)} y! ∈ {1, --- è} layerce. output / Basic feature b(ni) = Net (ni, Det, De) labeled data feature Layor Objective lors: Softmass W. T. t. y; Ce = 1 E - log P(y') xi) Pesidual loss patenset De = { nh } } = Ch Objective !: Disentangling Residual feature for Clustering):

residual frature:

Soft assignment between each $\tilde{c}(n^u)$ and cluster center U.

Auxiliary target Distoibution:

$$\frac{d_{k}(x_{i}^{n})}{d_{k}(x_{i}^{n})} = \frac{d_{k}(x_{i}^{n})}{d_{k}(x_{i}^{n})} = \frac{d$$

Ju = E grandliention.

Overall eluster loss Retaring

2?

duster = $\frac{1}{N^{u}} \stackrel{\mathcal{E}}{=} \frac{1}{k} \stackrel{\mathcal{E}}{=$

Just increase

Shoorpering 8 matching

Objective 2: mescraning Basic without f.

fine two Output.

Labell =
$$\frac{1}{N^{N}} \sum_{i=1}^{N} \sum_{j=1}^{N} -p(y|x_{i}^{N}) \log_{p} p(y|x_{i}^{N})$$

forzer layer

output

Objective 3: l'ainwise labeling fon Residual feature:

full loss objective:

Lotal = Lotal + BL + Lipain

Evolution Martin

ACC defined by max 1 E (perm (yi) = yi)
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