Neighborhood contrastive learning.

Problem statement!

given: labeled set D' unlabeled D'

twiget: heaven to eluster Du, leaveraging of

feature extractor so: x >2618th

pr > cl pu, eh

Baseline:

(x, y) & B

optimize cross-entrops loss:

Les = - 1 & y: way of: (x(n))

painuise between et loss:

Consistency loss!

$$l_{mgE} = \frac{1}{C^{2}} \sum_{i \neq i} (p_{i}(2^{i}) - p_{i}(2^{i}))^{2}$$

$$+ \frac{1}{C^{2}} \sum_{i \neq i} (p_{i}(2^{i}) - p_{i}(2^{i}))^{2}$$

Nace - LCE - NCE 1 MGE

Neighborhood Contrastive L:

Queue: M' [regarded as negative]

Retorere top- le similar features:

$$l\left(z^{u}, \zeta_{z}\right) = \frac{1}{k} \sum_{z' \in C} w_{q} \frac{\left(z^{u}, \overline{z''}\right)/c}{\left(z^{u}, \overline{z''}\right)/c} + \sum_{z' \in C} \frac{\left(z^{u}, \overline{z''}\right)/c}{\left(z^{u}, \overline{z''}\right)/c}$$

i'v e

MCI

: NCL:

superivised contrastin less:

$$P = \left\{ \begin{array}{l} -1 \\ \xi \end{array} \in M : \forall i = \forall i \right\} \cup \left\{ \begin{array}{l} 2i \\ \xi \end{array} \right\} \cap \left\{ \begin{array}{l} -1 \\ \xi \end{array} \right\} = \left\{ \begin{array}{l} -1 \\ \xi \end{array} \right\} =$$

Hard regative generation:

Easy negatives:

for samples in m's true negative to m's $S = \mu \cdot \overline{z} + (1 - \mu) \overline{z}$ mixing coef.

New memory quene.

Overall loss:

bass : Lbase of Lack