

chairman: $E(\theta')$ of $M(\theta)$: generate box references.

$$\theta tr' = \alpha \theta tr - 1 + ((-\alpha) \cdot \theta tr)$$

1. Given chairman 1 952 box andidates: {bi3} >

Member hoxes 1 bin 3 are assigned to each reference box in 8 bi3

using detector - defined assignment strategy; such as max-Iou
assigner

2. Given matched pair of boxes [bi, bin],

: CE b/w one-hot chairman prediction & l

posterior predictive member distribution 3ⁱ

3. Disagreement about box b' is aggregated among M

Committee members.

$$d_{e}^{i} = \frac{1}{M} \cdot \sum_{m}^{M} \left(\frac{1}{k_{mi}} \sum_{j}^{k_{mi}} d_{e}^{ij} \right)$$

(kmi : # of positively matched member predictions in m-th

- Disagreement on localization

1. {b', bm') : matched pair of boxes.

2. (Am (bm)) : inverse transformations on those boxes.

fed into localization branch of chairman model II mg.

3. Disagreement over the location of bis measured based on chairman re-alibrated boxes.

$$dr' = \frac{1}{4} \cdot \sum_{k}^{4} \hat{\nabla}_{k} \left(\left\{ E^{reg} \left(A_{m}^{-1} \left(b_{m}^{i} \right) \right)^{2} \right\} \right)$$

localization task => 4 mg regression task based on coordinates.

- Our scoring hunction for box-level detection task

di = di x di

- Supervised loss for labeled images

· fully labeled images. C'X' 3 from Lt i Ne >4

desification loss

gt dass label localization loss function

Le = Ne - Lds (xe , ye) + Lloc (xe , te)

Ally labeled image Af. fully labeled image box location

- Pseudo - active synergy for sparse images

sparse gt late!

$$G(ys), ysc$$

pseudo lobe!

 $G(ys), ysc$
 $= ys$
 $U(ysc), ysc$
 $= ys(ysc), ysc)$
 $= ysc), ysc)$
 $= ysc),$

.'. Supervision quality for sparse images.