

Soft argmax

$$\hat{\mathbf{x}} = \sum_i \mathbf{p}_i \cdot \frac{\exp\left(\frac{\mathbf{h}_i}{\tau}\right)}{\sum_j \exp\left(\frac{\mathbf{h}_j}{\tau}\right)}$$

To decode key points for computing geometric priors and keep it differentiable for training

Pre & Post Processing