Another Embedding Approach

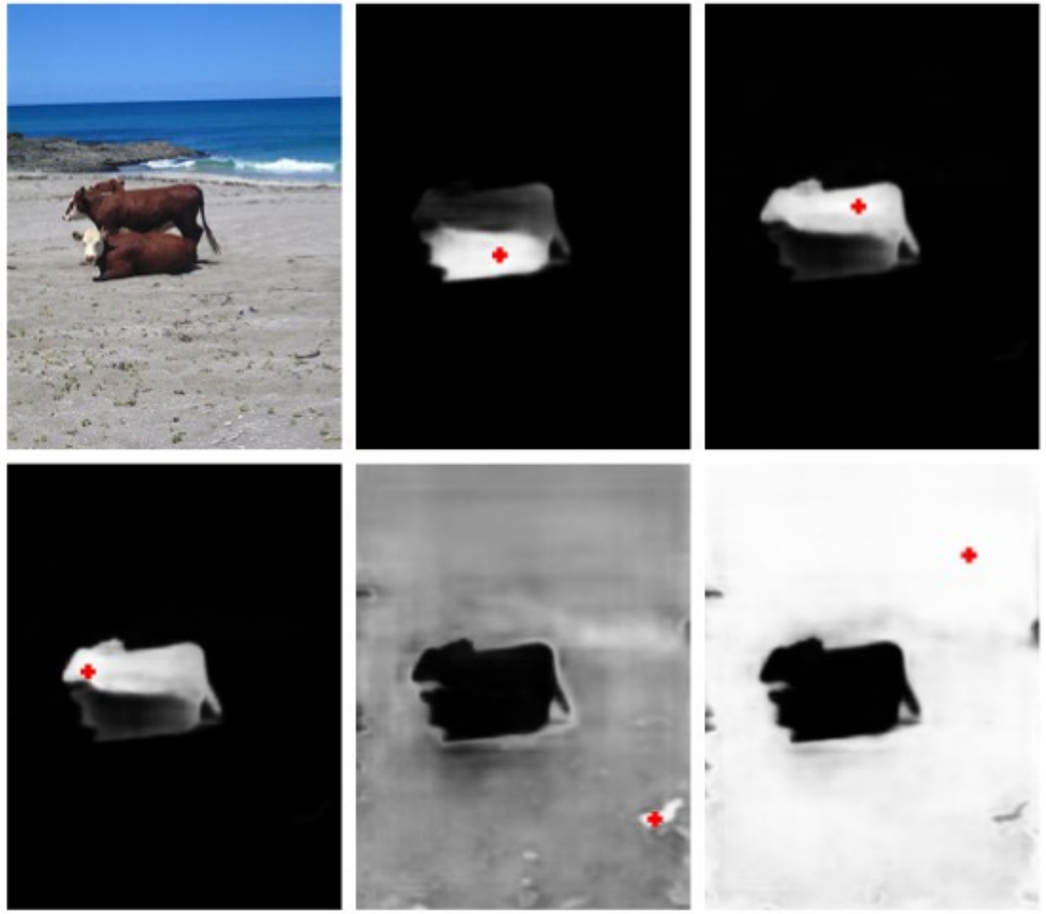
- Sigmoid
- Cross entropy

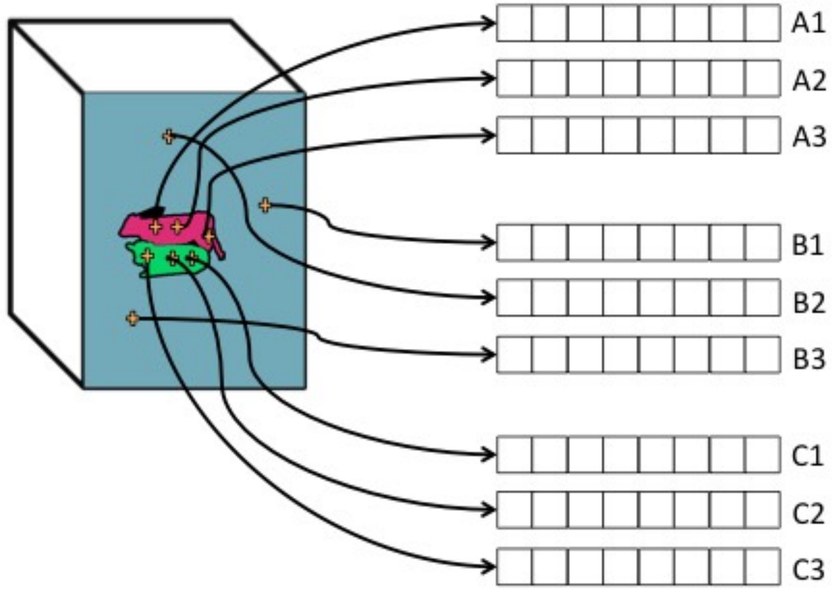
Embedding Distance (0,inf) → Pixel Similarity (1,0)

$$\sigma(p,q) = \frac{2}{1+\exp(\,\|e_p - e_q\|_2^2\,)}$$

$$L_e = -\frac{1}{|S|}\sum_{p,q\in S} w_{pq}\cdot\begin{cases}\ln(\sigma(p,q)), & y_p = y_q\\ \ln(1-\sigma(p,q)), & y_p \neq y_q\end{cases}$$

Another Embedding Approach





From *Semantic instance segmentation via deep metric learning* by Fathi, Alireza, et al., 2017