input var output

Pixe) value

& Semantic label

feature map

CRF:

model P(T|X) --- Prodiction of T over X $\emptyset = PO_{r}(D_{r}), O_{2}(D_{2}), O_{r}(D_{k})$ Probability of vars

unnormalized measure <- Po (x, Y) = II \$\phi_i(D_i)\$

 $Z_{\sigma}(X) = \sum_{Y} \widetilde{P}_{\sigma}(X,Y) - F_{or} \text{ any given } X$, sum over

$$\widetilde{P}_{\emptyset}(\Upsilon/X) = \frac{1}{Z_{\emptyset}(X)}\widetilde{P}_{\emptyset}(X,Y)$$

$$\begin{array}{c|c} ex: & & & \\ \hline X^0Y^0 & & & \\ \hline X^0Y' & & & \\ \hline X'Y' & & & \\ \hline \end{array}$$