## **Markov and Conditional RF**

 The most probable (Max a Posteriori (MAP)) labelling is defined as:

$$\mathbf{x}^* = \arg\max_{\mathbf{x} \in \mathbf{L}} \Pr(\mathbf{x} | \mathbf{D}) = \arg\min_{\mathbf{x} \in \mathbf{L}} E(\mathbf{x})$$

 The only distinction (MRF vs. CRF) is that in the CRF the conditional dependencies between variables depend also on the data