Graph Cut based Inference

An energy / potential is called **submodular** iff for every pair of variables :

$$E(0,0,\bar{\mathbf{x}}_{ij}) + E(1,1,\bar{\mathbf{x}}_{ij}) \le E(0,1,\bar{\mathbf{x}}_{ij}) + E(1,0,\bar{\mathbf{x}}_{ij})$$