

Hammersley-Clifford theorem addresses the pdf factorization implied by a graph: A distribution has the Markov structure implied by an undirected graph iff it can be represented in the factored form

$$P_x = \frac{1}{Z} \prod_{c \in \xi} \Psi_{x_c}$$

Normalizing constant

set of maximal cliques

Potential functions of states of variables in maximal clique

