

Clique Tree and VE

variable elimination and clique trees

- Variable elimination

- Each step creates a factor λ_i through factor product
- A variable is eliminated in λ_i to generate new factor τ_i
- τ_i is used in computing other factor λ_j

- Clique tree view

- Intermediate factors λ_i are cliques
- τ_i are "messages" generated by clique λ_i and transmitted to another clique λ_j
- VE defines a graph
- Cluster C_i for each factor λ_i used in the computation
- Draw edge $C_i - C_j$ if the factor generated from λ_i is used in the computation of λ_j

