



Ning Zhang

Attributed Graph Alignment

Program: MSc in Information Theory

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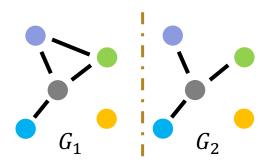


Fig1. Protein-protein interaction networks (PPI networks)

Fig2. PPI networks with amino acid sequence of each protein

Existing model: graph alignment

- Given $G_1 = (V_1, E_1)$, $G_2 = (V_2, E_2)$
- Find bijection between V_1 and V_2

Proposed model: attributed graph alignment

- Given $G'_1 = (V_1, E_1, A_1)$, $G'_2 = (V_2, E_2, A_2)$
- Find bijection between V_1 and V_2

Goal: quantify the benefit brought by attributes