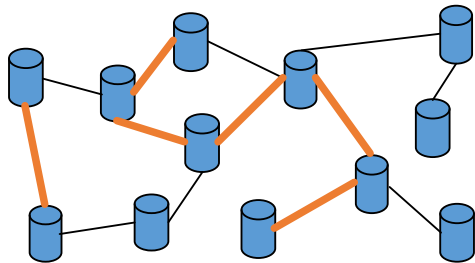
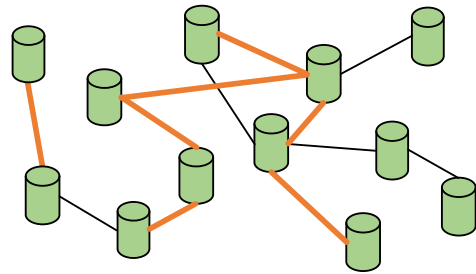


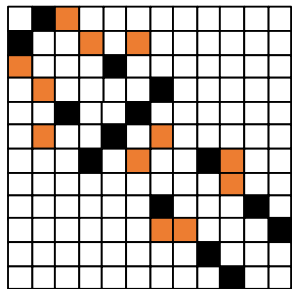
Graph  $\mathcal{G}_1$



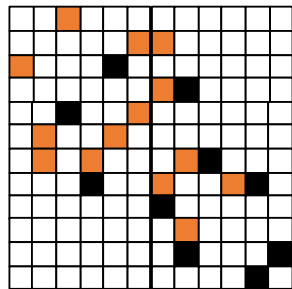
Graph  $\mathcal{G}_2$



Weight Matrix  $A_1$

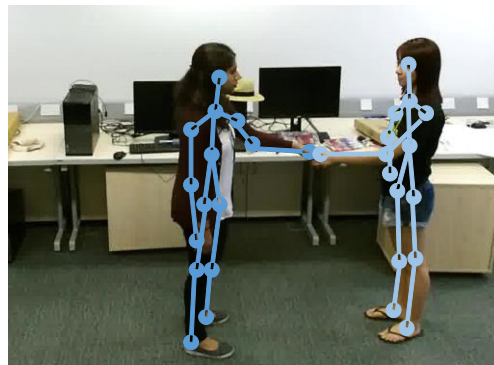


Weight Matrix  $A_2$

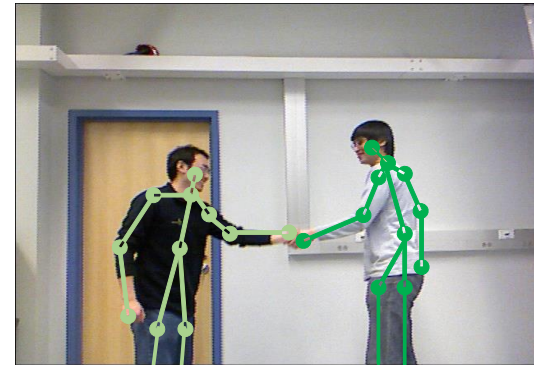


(a) Relation transfer between different graphs

NTU Dataset (Source)

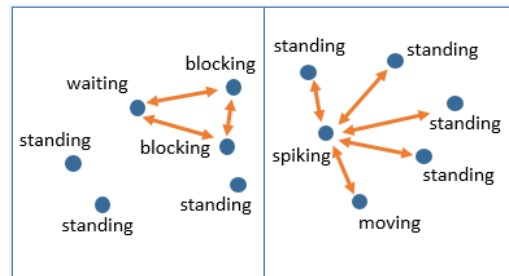


SBU Dataset (Target)



(b) Unpaired relation transfer across different datasets

Semantics Modality



Appearance Modality



(c) Paired relation transfer across different modalities