



4-component HIG

Spatial Hyper-Interaction Graph

Action Hyper-Interaction Graph

Appearance Hyper-Interaction Graph

Attention Hyper-Interaction Graph

Ranking via PersonRank

spatial score

action score

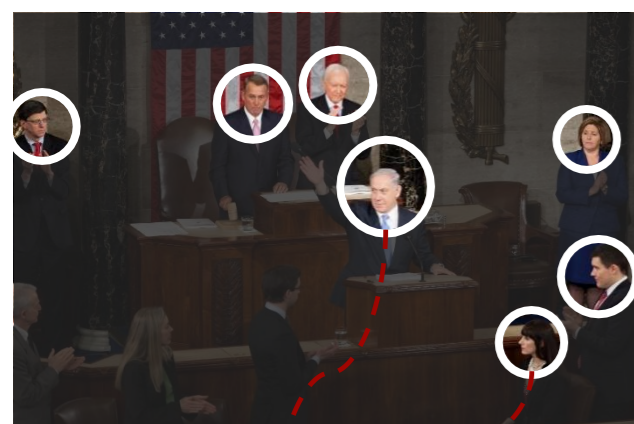
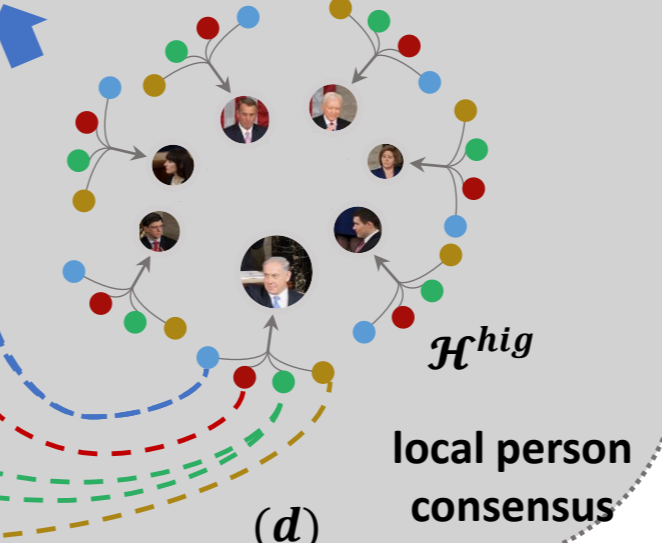
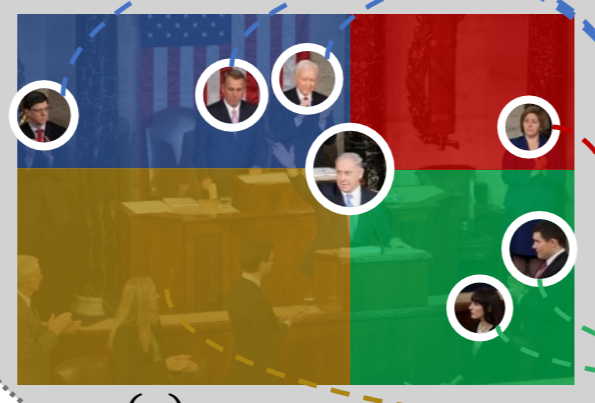
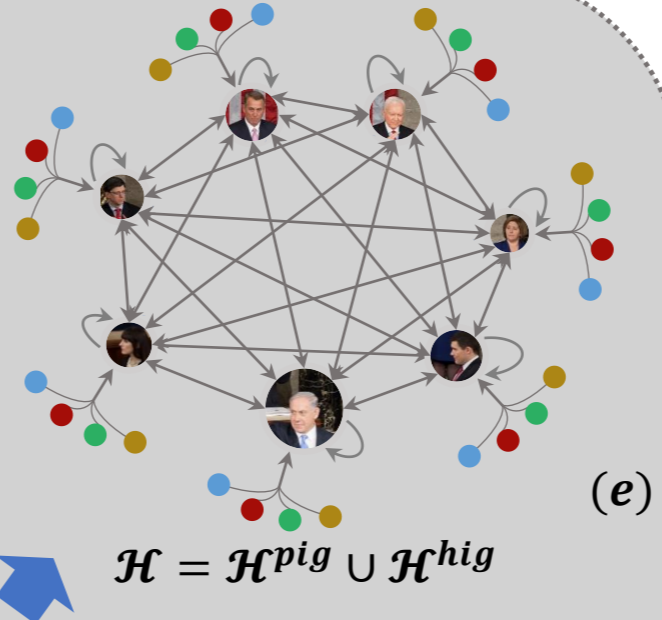
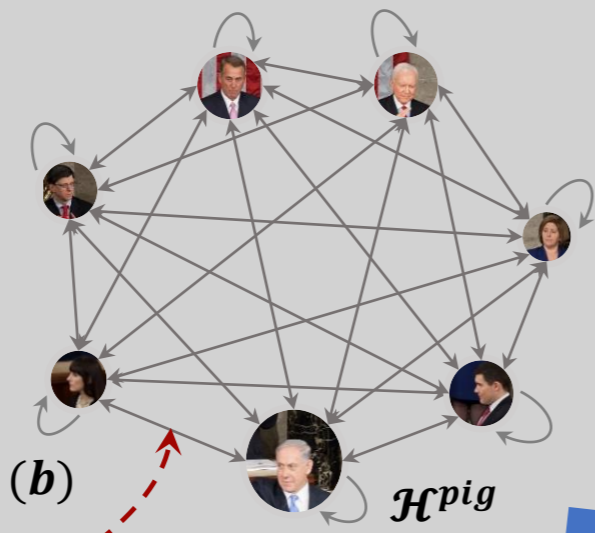
appearance score

attention score

Multiple Hyper-Interaction Graph

final importance score

Construction of Hybrid-Interaction Graph



(a) Constructing Pairwise-Interaction via Message Function $\Phi(\cdot, \cdot)$

