



Graph Augmentation Summary

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Communicative Subgraph Representation Learning for Multi-Relational Inductive Drug-Gene Interaction Prediction (SIGIR 2022)

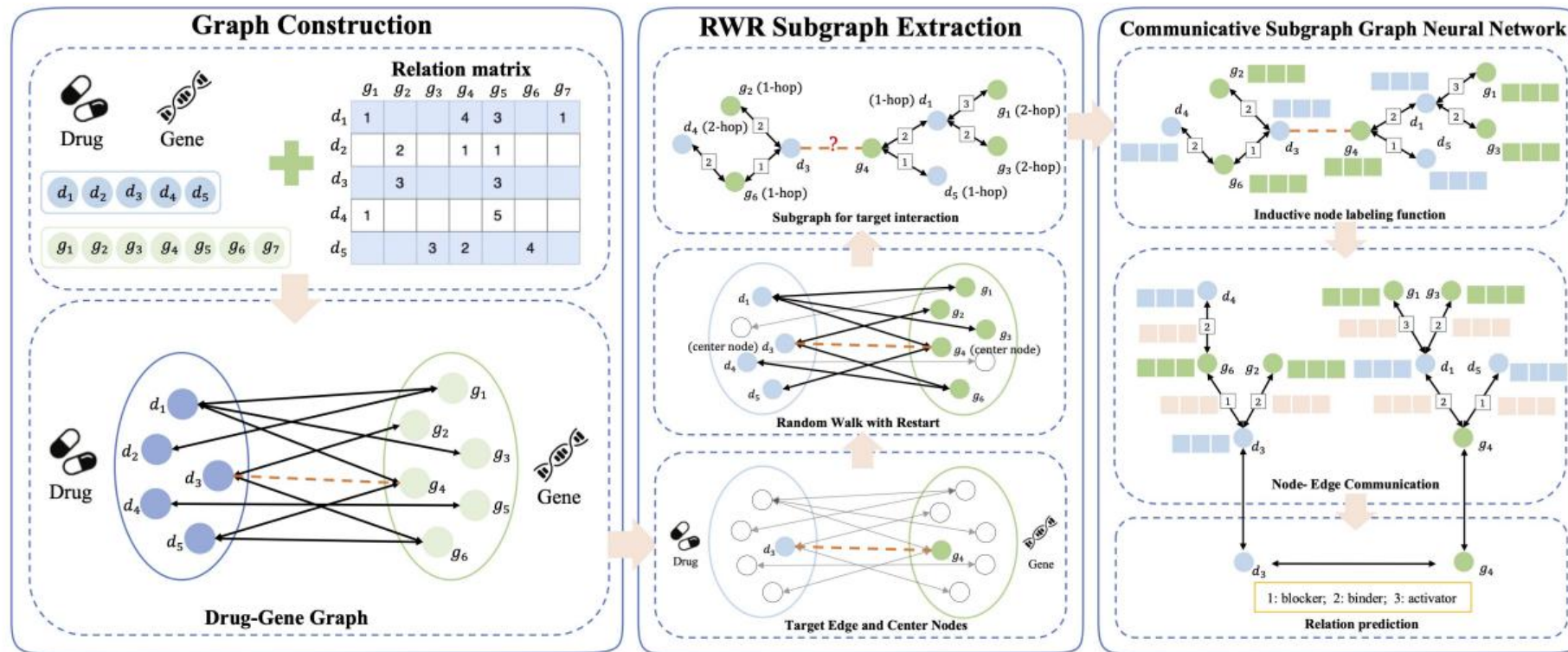


Figure 1: The framework of CoSMIG. We first extract a subgraph around each interaction and train a communicative subgraph graph neural network to map subgraphs to interactions. Each subgraph is induced by the drug and gene associated with the target interaction as well as their h -hop neighbors (here $h = 3$). Finally, the learned subgraph embedding of each interaction is used to predict the various interactions between drug and gene.

Enhancing Sequential Recommendation with Graph Contrastive Learning (IJCAI 2022)

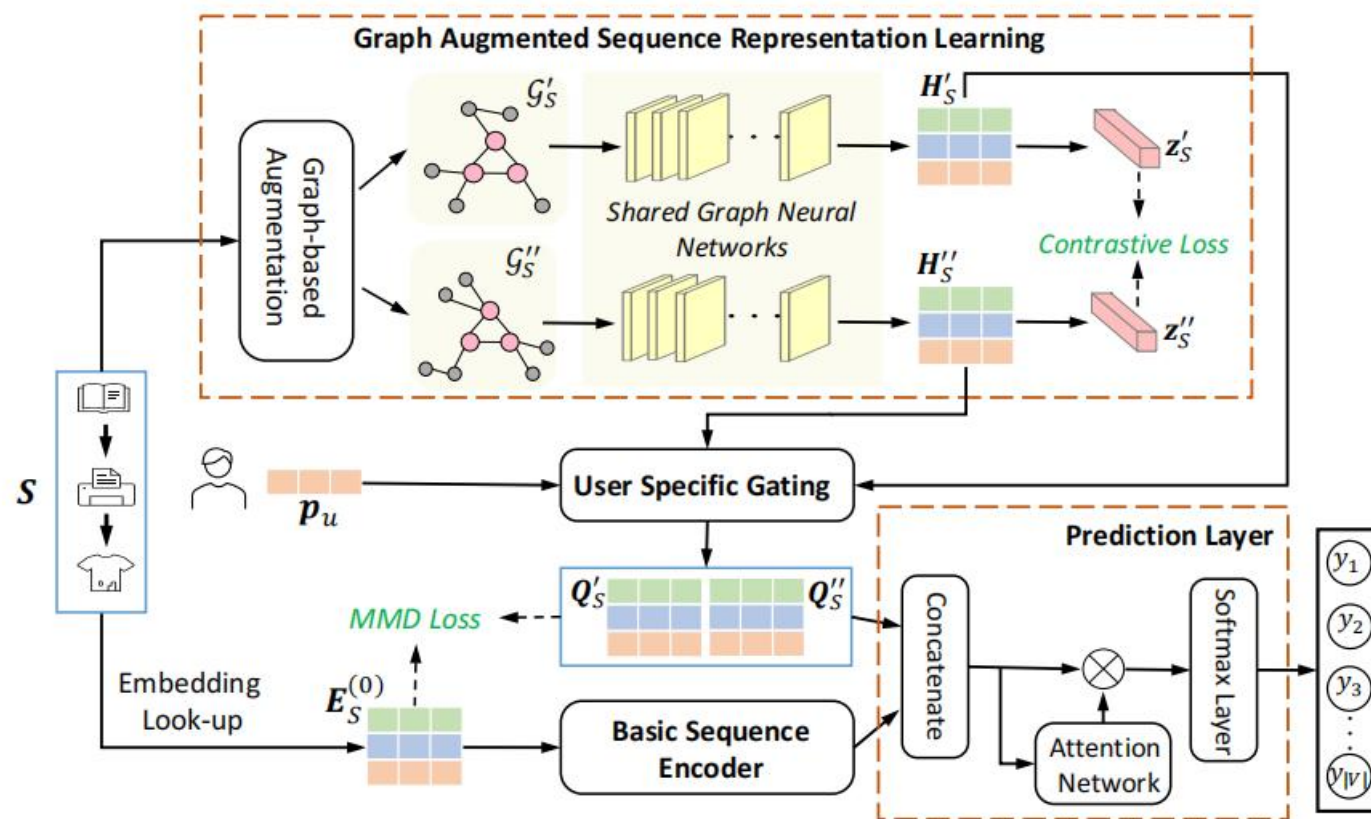
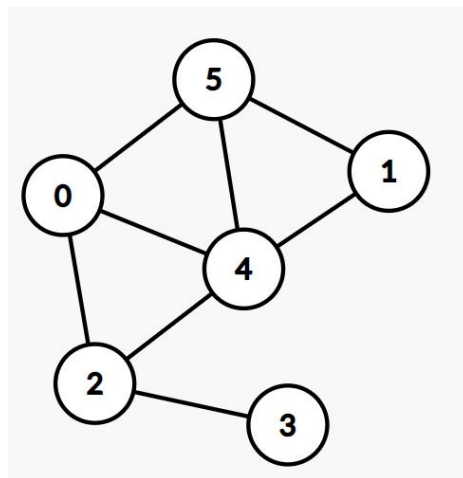


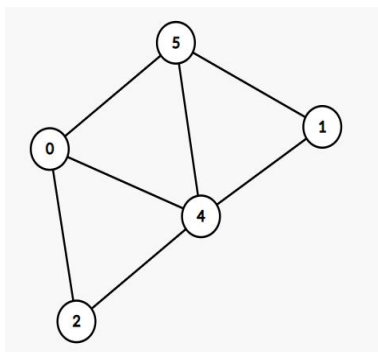
Figure 2: The framework of the proposed GCL4SR model.

Dual Space Graph Contrastive Learning(WWW2022)

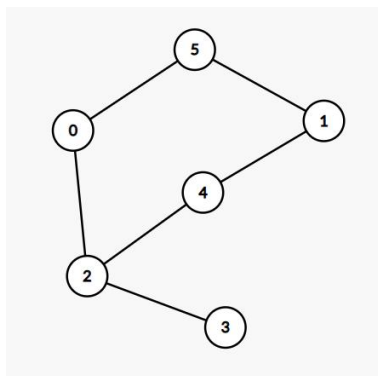


How to generate unique and informative views for graph contrastive learning?

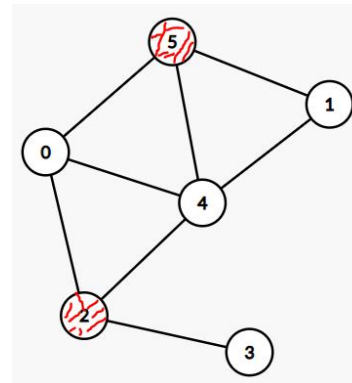
Node dropping



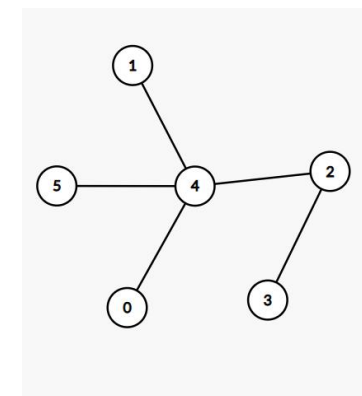
Edge perturbation



Attribute masking



Subgraph





Thanks