Graph Neural Networks

Edge Embedding

Dr. Alireza Aghamohammadi

Edge Graph

- So far, we have focused on processing node embeddings in graph neural networks.
- Now, we shift our attention to scenarios where the information is associated with the edges of the graph.
- We can extend the techniques used for node embeddings to handle edge embeddings by utilizing the concept of an edge graph.
- To process edge embeddings:
 - 1. Convert the original graph to its edge graph.
 - 2. Apply the same aggregation and update techniques used for node embeddings, treating each edge as a node in the edge graph.

