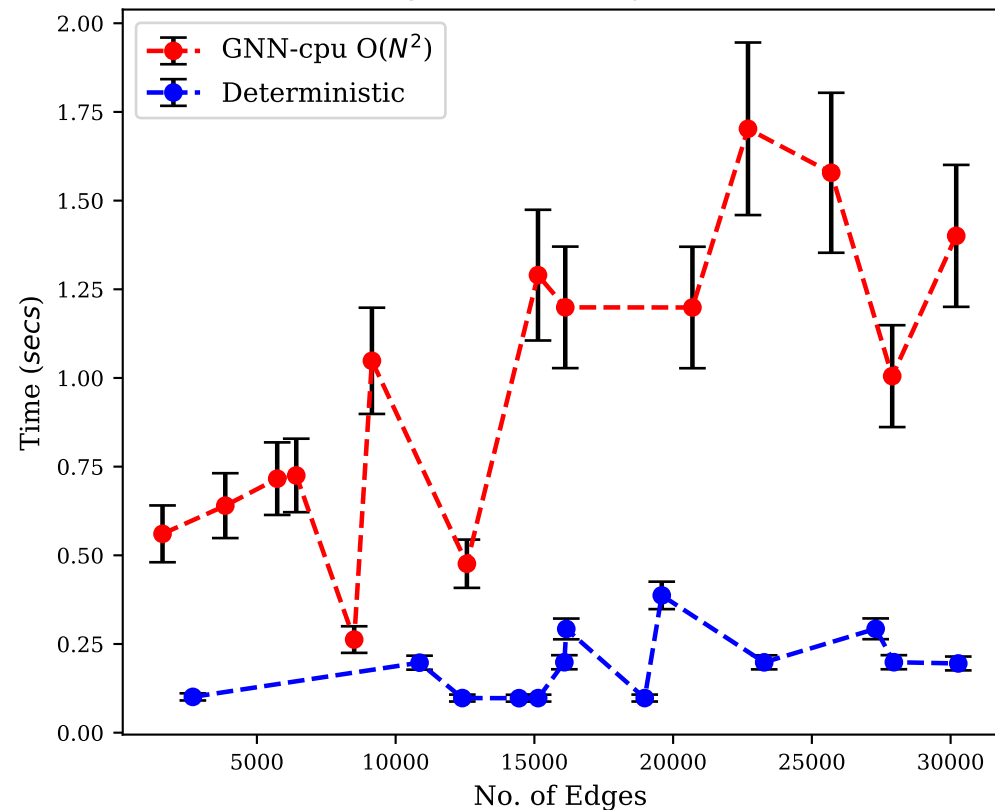
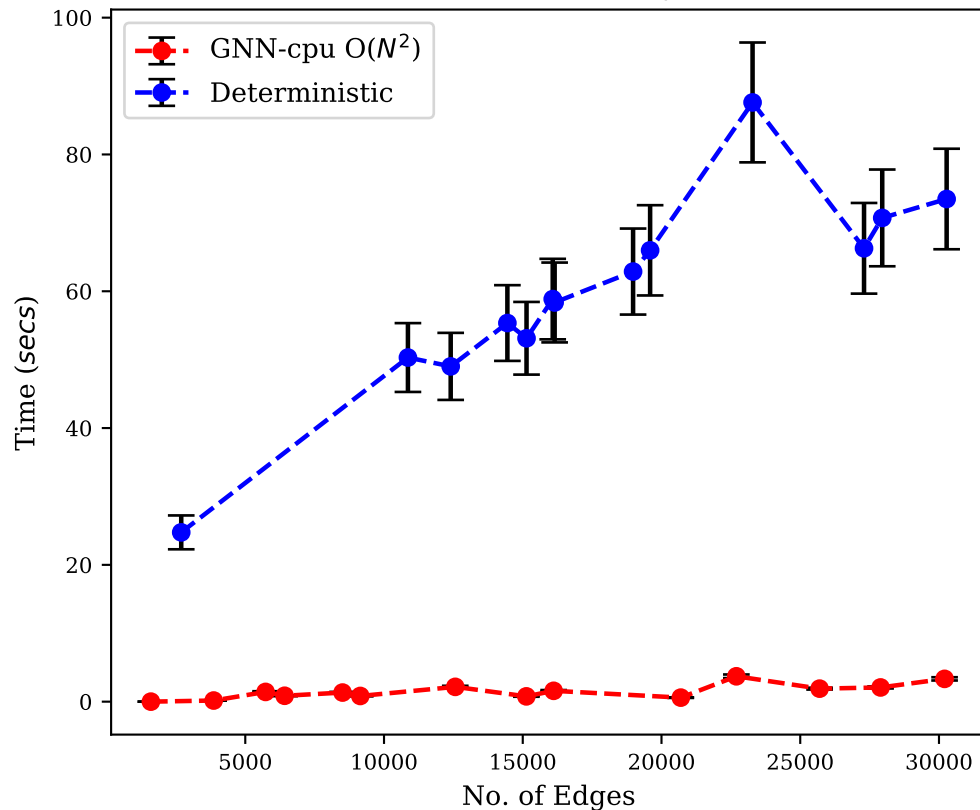


Degree Centrality: $O(N^2)$ Betweenness Centrality $O(N^3)$ Closeness Centrality $O(N^3)$ 