

Network Analysis

10.1 Network Types

The difference between one-mode networks and two-mode networks is _____.

In a two-mode network, there can only be _____.

To transform a two-mode network into a one-mode network, _____.

The advantage of transforming a two-mode network into a one-mode network is that _____.

10.2 Paths and Routes

The difference between a node's neighbors and its component is that _____.

The problem of the seven bridges of Königsberg has no solution because _____.

The breadth-first search algorithm is worse for navigation scenarios than depth-first because _____.

To find the optimal path more efficiently, the A* algorithm _____.

10.3 Centralities

The degree centrality of a node is _____.

In order to decide which centrality metric to use, it is important to _____.

_____.

Betweenness centrality is a good choice for analyzing information flow because _____
_____.

Eigenvector centrality does not simply consider the number of connected nodes but _____
_____.

10.4 Groups

An ego network is a network which _____
_____.

The Girvan-Newman algorithm detects communities in networks by _____
_____.

As with other clustering algorithms, an issue of community/partitioning algorithms is that _____
_____.