

Background:

We used the datasets of a research conducted by Bruce Kapferer on miners of Zambia.

He used this research of fruitful use of network analysis and present dynamic aspect of social relations.

The dataset is used to explain a development of a conflict in a work unit of miners the subsequent mobilization of support for the two antagonist.

The conflict between the two miners namely Abraham and Donald was stemmed from the accusations concerning the rate busting.

Abraham and his fellow workers were concerned that Donald was showing them in bad light due to his good work. This led to a series of accusation and counter accusations and manipulations of workers amongst the work unit.

Kapferer observed and recorded several types of interactions among the workers, including conversation, joking, job assistance, cash assistance and personal assistance. He also stated Kapferer observed and recorded several types of interactions among the workers, including conversation, joking, job assistance, cash assistance and personal assistance"

Betweenness:

Betweenness centrality is a way of detecting the amount of influence a node has over the flow of information in a graph. It is often used to find nodes that serve as a bridge from one part of a graph to another. The algorithm calculates unweighted shortest paths between all pairs of nodes in a graph.

The graph shows that Donald and Abraham as the most influential peoples in the group of miners. According to research conducted by Kapferer – " After the conflict between the two major actors people formulated the group and ultimately supported Donald which we can also observe from the social network diagram.

Degree:

The degree centrality of this social network diagram depicts that the number of people like Donald and Abraham had interacted with.

Histogram:

The Histogram prepared by Rstudio is used to determine the frequency of degree of interaction amongst miners. We can see from the diagram that 7 out of 15 miners have degree 1 or 2 which shows that they are dependent on a single person to convey their ideas or receive information.

Only 2 people have degree greater than 6 which shows that they are the highly influencing and which was again showcased by Kapferer in his analysis which showed that majority of miners ended supported Donald.

Graph characters:

1. After looking at the Network Diagram, we can say it's sparse network.