SYSM 6302 Project : FRC Team Match Network

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Abstract

In this project multiple networks will be created and analyzed on match data between FRC teams for various years of competition. In each network graph, a team will be represented by nodes and individual matches will be included as edges.

1 Dataset

The data for this project is match data for multiple years (1992-2021) of FRC competition matches. Specifically, the match specific data for the 2003-2019 seasons will be analyzed since enough data is available for each season. Additionally, the 2013-2020 seasons specifically were analyzed as these are the years I personally have been involved in.

The data was obtained from The Blue Alliance https://www.thebluealliance.com/

2 Network Construction