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**North American Airports and Complex Networks**

Course: Complex Network

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**Abstract:** Transportation infrastructure of a continent is one of the most important indicators of its economic growth. Lots of facilities are prepared by the government based on the importance of each airport. The links between airports are the main factor to calculate the importance of that airport. Therefore the relationship between countries can affect this importance. In this project, we will see the current structure of airports in North America and calculate some complex network factors for each airports and then we will see what will happen if the airport network will be disconnected between US and Canada.

In this project, we discovered the graph model of US and Canada Airport Network by using the available dataset1, then built an individual version of Airport Network of US and Airport Network of Canada separately.

Connected Version of North America Data Set:

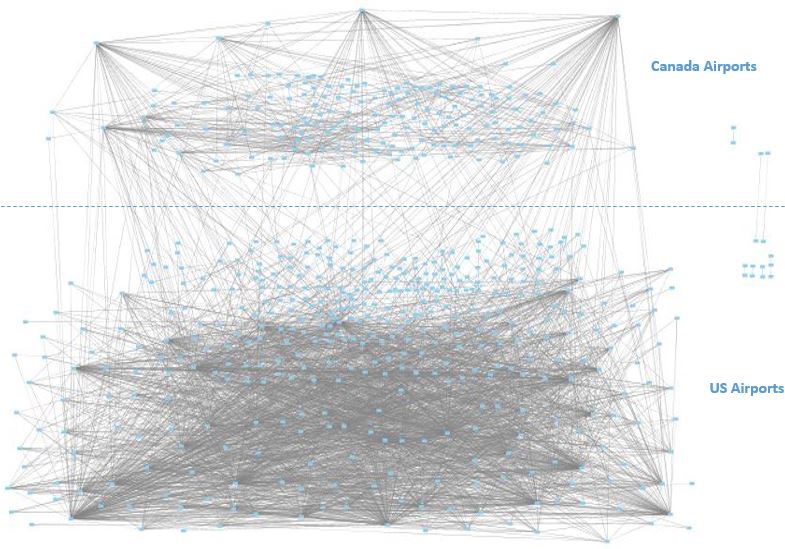


Figure1: North America Airport Graph

Refference:

1. https://openflights.org/data.html