

Bufan Zeng

INF553 SP18

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Execution Description

There are two main classes in the jar file -- Betweenness and Community. Betweenness uses Girvan-Newman algorithm to calculate the betweenness of each edge in graph. Community can detect the optimal communities in the graph according to modularity.

To execute the algorithms in terminal, navigate to the directory of Spark, and then navigate to "bin" directory. Execute the classes using the command below:

```
./spark-submit --class <main class> Bufan_Zeng_hw4.jar <input file path> <output file path>
```

For example, to execute Community on file video_small_num.csv and get the output in output.txt, use following command:

```
./spark-submit --class Community Bufan_Zeng_hw4.jar video_small_num.csv output.txt
```