

To run the visualization tool, do the following steps:

- 1- Install Eclipse enterprise edition, you can download it from (<http://www.eclipse.org/downloads/packages/eclipse-ide-java-ee-developers/junosr2>).
- 2- Install Apache Tomcat, you can download it from (<http://mirror.its.dal.ca/apache/tomcat/tomcat-7/v7.0.69/bin/>).
- 3- After downloading the Apache Tomcat, copy the jar "matlabcontrol-4.1.0.jar" found in lib folder at github repository to the tomcat lib folder.
- 4- Open Eclipse EE and then create "new->other->Web->Dynamic Web Project" and name it "Dynamic Graph Visualization Juno" and then in the same window, press "New Runtime" choose "Apache Tomcat v7.0" , then next and choose the path you installed the tomcat to, so in my case it was "C:\apache-tomcat-7.0.69" and then copy the src from the github repository to the eclipse code and copy the WebContent from the github repository to the eclipse code and copy the lib folder too. Then right click on the "project -> properties -> Java Build Path -> Libraries -> Add JARs" and select from the lib folder "matlabcontrol-4.1.0.jar".
- 5- To run it, right click on the project -> Run As -> Run on Server, then open your Browser to the following URL:  
  
"http://localhost:8080/Dynamic\_Graph\_Visualization\_Juno/browser/dynamic\_graph\_page.html" and you will find the html page of the tool where you can select the files, change the k and the measure and run the code.

## Dynamic Graph Visualization Tool

Select Graph 1:  No file chosen

Select Graph 2:  No file chosen

Select K

Small  Large

Select Measure:

- Area-based Measure
- Conformal-based Measure
- Top Changing Vertices BFS
- Top Changing Vertices BFS Biased

1 2 3 4 5 6 7 8 9 10

Then choose graph 1 file as "jars\data\Related Work Format\Food\_graphs\Japan.txt" and graph 2 as "jars\data\Related Work Format\Food\_graphs\North-African.txt" and then choose the suitable method and then press run and on the right, it will show you the highly distorted regions on both graph 1 and graph 2.