

Homework #2
CEE 598: Globalization of Water
Due: October 16th

The goal of this homework is to gain experience calculating network statistics. These methods may help with your course project and are transferable skills beyond the class.

For the matrix you created in Homework #1, please do the following:

1. Create Circos plot of the network using <http://mkweb.bcgsc.ca/tableviewer/>
2. Calculate #nodes, #links, and density
3. Plot node degree distribution
4. Plot node strength distribution
5. Rank top 10 countries in terms of (i) clustering and (ii) betweenness centrality

Try to code items (2)-(4) from scratch. You can use built in packages for (5). Also, you may create a different type of network visualization for (1), if you prefer.

Please turn in:

1. Write-up presenting your methods and results for items (1) to (5).
2. Your well-commented code as an appendix to your write-up.

The full report (with the code as an appendix) should be submitted as a PDF.