

PHYS 597A, CMPSC 497E: Graphs and networks in systems biology

Homework assignment 4, due Tuesday Sept. 29

Read "Systems-level insights into cellular regulation: inferring, analyzing, and modeling intracellular networks".

1. Write down four questions or ideas that you had while reading the article.

Follow up on your questions/ideas on the web (a good start is http://en.wikipedia.org/wiki/Systems_biology) and summarize briefly what you found.

2. What network measures, other than those currently used in abundance (e.g. degree distribution), would you propose for the analysis of the existing cellular networks?

3. What other cellular or regulatory networks, or other representations of cellular or regulatory networks, would you propose to be mapped and analyzed?