

Assignment 6



1 Final Project (Proposal)

The final project is a great opportunity to attack a substantial (but tractable) computational problem. This could involve numerical simulation or data analysis. The work need not be original research. However, a problem relevant to your research or thesis would be ideal. I will be available to provide advice and guidance at any stage. Some areas where you may want to look for a project:

- *Chaos*
- *Cryptography*
- *Image processing*
- *Machine learning and data mining*
- *Monte Carlos Simulation*
- *Dynamical, Finite State, and Complex Model Simulations*
- *Probability and Statistics for Simulations and Analysis*
- *Simulations Results Analysis and Viewing Tools*
- ...

Find an idea or paper that you would like to develop and better understand using the computer and

- (50 Points) Formulate a concise (about **2-3 pp**) **proposal** which should:
 - provide a mathematical definition of the problem,
 - state your goals,
 - describe (as best you can at this point) the approach you intend to take.
 - provide some references