

Weekly Report (2011-01-17)

Hongxing Li

In last week, we are working on the following items,

- 1) Read books and prepare the presentation for Lyapunov optimization.
- 2) Formulate the problem model and the centralized utility maximization problem.

In the coming week, we are planning to do the following jobs,

- 1) Read the book “Stochastic Network Optimization with Application to Communication and Queueing Systems”, which is just published by Dr. Neely.
- 2) Work on the routing algorithm for our problem. This is the bottleneck at current stage. There is no well-designed routing algorithm in cognitive radio networks, leaving alone the case with mobility and social relations. However, the routing algorithm is a necessity in our solution to provide a fixed capacity region. We can learn from current literature on dynamic routing in mobile ad-hoc networks.