

Mini-Assignment 4: MegaMimo

(Due : Thursday, October 10 , 2013 @ 3pm)

True or False:

- ___1. In the paper JMB: Scaling Wireless Capacity with User Demands, to synchronize independent transmitters, JMB continuously tracks and corrects the frequency offsets across the packets sent by the two transmitters.
- ___2. In the paper JMB: Scaling Wireless Capacity with User Demands, the authors show how to synchronize M independent APs in order to deliver M packets concurrently to M independent clients on the downlink. The same synchronization scheme can be used to synchronize the clients and deliver M packets to M APs on the uplink.
- ___3. In the paper JMB: Scaling Wireless Capacity with User Demands, in Figure 9, the authors show that you can scale the throughput linearly with the number of AP-client pairs up to 10 pairs. The trend however does not continue when the gain exceeds an order of magnitude.
- ___4. In the paper JMB: Scaling Wireless Capacity with User Demands, if we have M APs and M clients then each AP must synchronize with the other $M - 1$ APs in order to deliver M packets to the M clients concurrently.