

### **Mobile and Distributed Technologies Hw 3**

In this homework you are requested to implement Asynchronous Spanning Tree Algorithm with Termination Detection (Term\_ST Algorithm in Course Notes on Routing) on TOSSIM simulator. Packets can collide and retransmissions should be needed to ensure reliable data transfer. Please use PacketAcknowledgments interface to handle acknowledgments. Also please use timers to implement a simple CSMA/CA protocol (Before sending a packet, set up a timer for a random amount of time). Please run your algorithm on a network with 20 nodes which are randomly connected and show the execution of your protocol. Please write a report which includes your comments about the code and sample execution. Please send your source codes and report.

Deadline: 20.May.2014

Submission: Please send your homework to Res. Asst. Dr. Murat Kurt to the following e-mails:

murat.kurt@ege.edu.tr  
muratkurtube@gmail.com

Assoc. Prof. Dr. Orhan Dagdeviren  
International Computer Institute  
Ege University