## Advanced Distributed Algorithms Programming Hw 2

Please implement asynchronous distributed GHS algorithm as given in the original paper below:

"R. G. Gallager, P. A. Humblet, P. M. Spira, A Distributed Algorithm for Minimum-Weight Spanning Trees, ACM Transactions on Programming Languages and Systems (TOPLAS), v.5 n.1, p.66-77, Jan. 1983"

Please generate random graphs with 20 nodes, 40 nodes, 60 nodes and 80 nodes. Measure total message count (total messages sent) and runtime for each setup. Plot 2 graphs and provide necessary comments.

Please provide a report related to homework. In your report, please explain your solution with necessary screenshots of your program outputs.

Submission: Please send your homework (report and source codes) to your assistant's e-mails given in the information document.

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