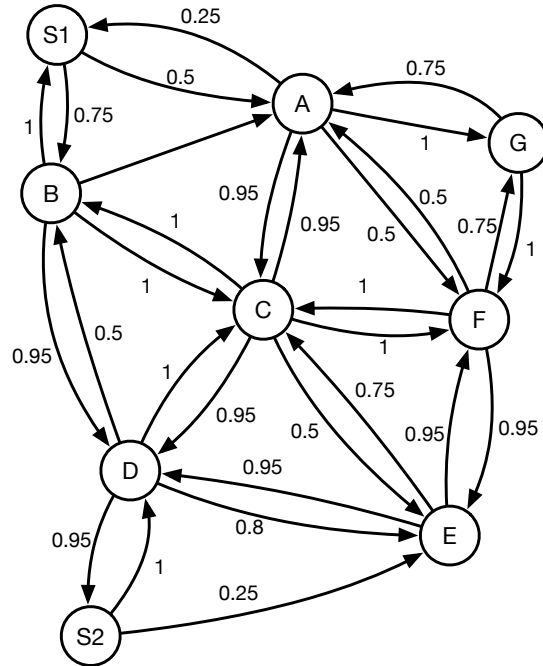


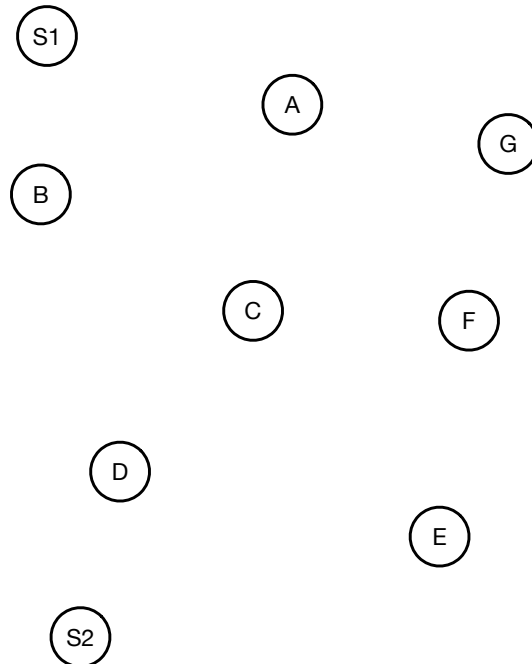
Exercise for the lecture
Wireless Sensor Networks
 Summer 2016
 Sheet 7

EXERCISE 8:

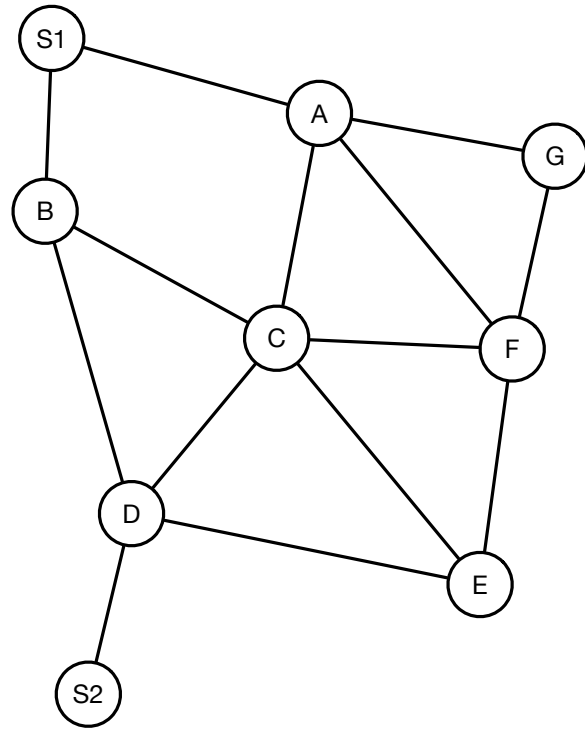
Consider the following graph, where the delivery ratio between nodes is displayed on the directed edges. Missing edges correspond to a delivery ratio of 0.



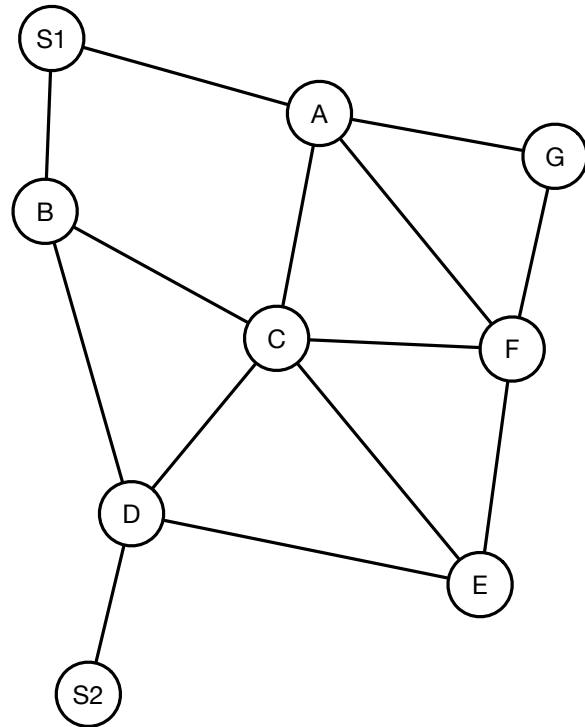
1. Compute the ETX rounded to multiples of 0.25, i.e. $\frac{1}{4} \left\lceil \frac{4}{d_r \cdot d_f} \right\rceil$, and add the edges to the following figure.



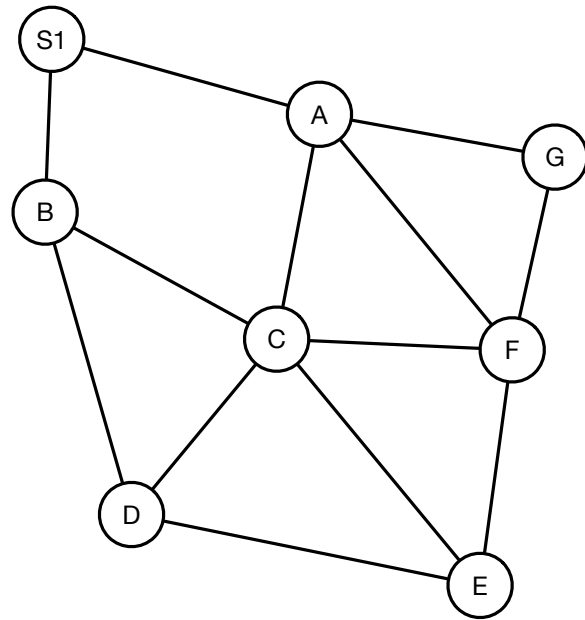
2. Compute the optimal Collection Tree for sinks S_1 and S_2 based on ETX computed above.



3. Compute the optimal DAG for RPL for sinks S_1 and S_2 based on the same ETX.



4. Now S_2 fails. Show the new DAG for RPL. Show the floating DAG.



Graphs for your convenience.

