

GEOGRAPHICAL AND ENERGY AWARE ROUTING PROTOCOL

TEAM MEMBERS :

APOORVA(11IT09)

DILIP(11IT19)

CHAITANYA(11IT32)

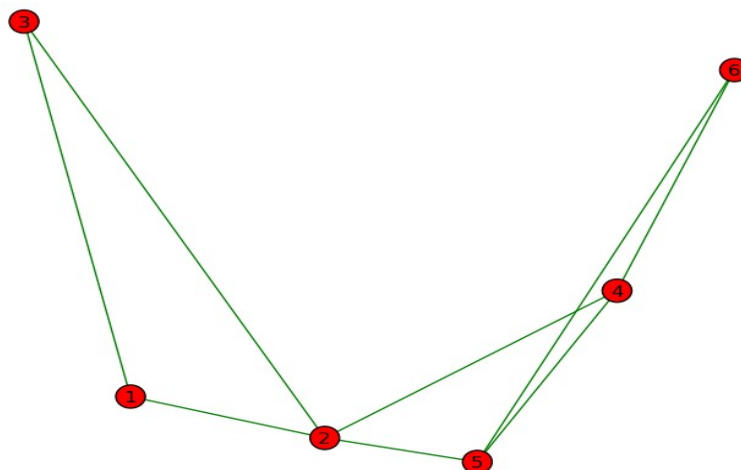
KAUSHIK(11IT65)

PROGRESS TILL NOW:

- 1) Choosing of the platform as to where the algorithm is to be implemented.
- 2) Exploration of graph algorithms on networkx
- 3) Literature survey of the papers stated as reference in the survey of the GEAR paper
- 4) Implementation of initial distance optimization or cost reduction strategy for energy aware routing
- 5) Realization of geographical region based classification of the nodes by hard coding in the program
- 6) Printing all possible paths from source node to the destination node

INTENDED PROGRESS FOR NEXT WEEK:

- 1) Assign distinct energy values to the nodes and include energy in the optimization formula
- 2) Search for a suitable simulator to implement the protocol to show packet transfer also



Paths from node : 6

kaushik@ubuntu:~/Desktop/IT 7th sem/wsn/wsn project\$ clear

kaushik@ubuntu:~/Desktop/IT 7th sem/wsn/wsn project\$ python stage1.py

['Kor', 'CMH']

<type 'dict'>

Enter the sourceKor

Enter the destinationCMH

Source nodes are : [4, 5, 6]

Target nodes are : [1, 2, 3]

The following are the source to destination paths :

Paths from node : 4

[4, 2, 1] Cost : 5

[4, 2, 3, 1] Cost : 5

[4, 5, 2, 1] Cost : 28

[4, 5, 2, 3, 1] Cost : 28

[4, 6, 5, 2, 1] Cost : 15

[4, 6, 5, 2, 3, 1] Cost : 15

[4, 2] Cost : 5

[4, 5, 2] Cost : 28

[4, 6, 5, 2] Cost : 15

[4, 2, 1, 3] Cost : 5

[4, 2, 3] Cost : 5

[4, 5, 2, 1, 3] Cost : 28

[4, 5, 2, 3] Cost : 28

[4, 6, 5, 2, 1, 3] Cost : 15

[4, 6, 5, 2, 3] Cost : 15

Paths from node : 5