Interference investigation in dense wireless networks

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PROJECT PROPOSAL

- In summary, the primary objectives of the paper are:

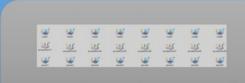
 Identify factors that affect interference

 Investigate the interference when multiple access points are densely placed.

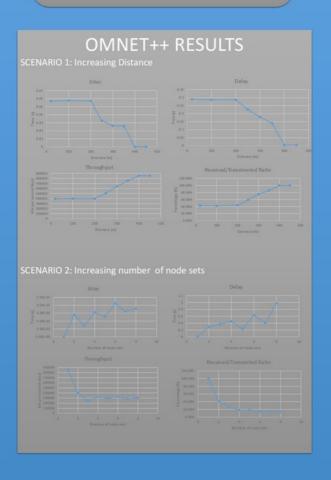
 Develop different scenarios for investigating wireless interference in simulated environments (Omnet++, NS3).

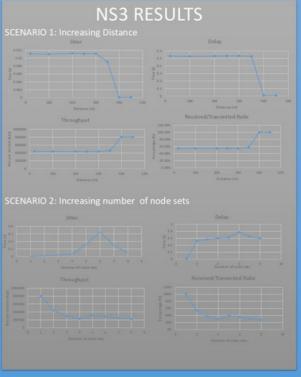
 Propose an algorithm that will try to reduce interference in dense wireless networks.

 Draw some conclusions about wireless interference and provide suggestions for future work.



Network Topology Example







CONCLUSSIONS

- As distance between node sets increases, network's overall performance is also increased.

 As density between the nodes increases, network's overall performance is reduced.

 With the use of algorithm, there are higher delays and jitter in the network.

 Algorithm's performance is better than normal behaviour only in high interference situations (short distances and/or high density between the nodes).