

31 July 2020

ATTENDEES

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SYNOPSIS

Weekly meeting.

NOTES

The method `'get_graph_by_time'` should return a static graph object. It will be renamed to `'get_snapshot'`. Similarly, `'get_graph_by_interval'` will be renamed to `'get_temporal_subgraph'`. Adding nodes/edges should be done through a graph method, which calls the respective underlying nodes/edges methods. Investigate adding lines with arrows with pyplot. Build a nodelink plotting feature.

Transportation showcase is a good idea, and can demonstrate the foremost tree algorithm. Another library showcase example can revolve around an approximation algorithm for the removal of edges in a graph to reduce the graph's overall reachability (research area, spread of disease). Reachability can be calculated by using the foremost tree for each node.

ACTION ITEMS

Investigate paper `'Deleting edges to restrict the size of an epidemic in temporal networks'`. Build a graph generator using the Networkx RandomGNP static generator.