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Community detection using preference networks

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- A new local community detection algorithm based on preference network is proposed
- Preference network is built using node similarity measures like common neighbors of nodes and gossip spread capability among friends
- Each node selects to be in same community with its most similar neighbor and aggregated preferences of all nodes in network lead to connected components in preference network
- Communities are the components on such a preference network
- Proposed algorithm can reveal communities in linear time

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