Online social networks



Network growth and evolution LOGICAL VS PHYSICAL

Data

Providers of large social networks generally consider their dynamic network data to be trade secrets and have no incentives to make such data available for research

Methods

Despite increasing efforts to study network dynamics, current analyses
mainly focus on change over time of static metrics computed on snapshots of graphs

Results

The limited prior work mainly models network dynamics with respect to a logical clock.

We introduce metrics, methods and algorithms for physical time networks

- Facebook (publicly available)
- RenRen (in collaboration with the SandLab of UCSB and RenRen company)
- Steemit (publicly available)
- Burstiness detection
- Link delay
- Link creation acceleration
- Temporal triadic closure delay
- Temporal motifs
- Evolution rules

- Network growth and evolution patterns
- Burstiness characterization
- Mesoscopic dynamics Characterization
- Impact of link recommendation
- Node role discovery
- User migration

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