Last-updated: 2024/02/06, liangz

Project IDDS and more

members: Javaria, Wenruo, Azam, liangz

Aim

Observing that some practical issues can be modeled as or studied with the distance dominating set problem in networks, this study studies the scaling phenomenon of distance dominating in networks.

Networks

- Real-life networks downloaded from networkrepository.com.
- Artificially generated by well-known models such as ER, BA, WS, and more.
- Artificially generated by a new LZ-model.

Publication plan

- A comprehensive empirical studies (3 months) → at least a well-known network science conference.
- If possible, a theoretical analysis (details to be decided) → a good network science or math or physical related journal.

Tasks

** Wenruo **

- Upload gr files of the networks used in research to the cloud (see the email).
- Upload the program and user's manual for generating networks by ER, BA, WS, and LZ models.

** Javaria **

- Analyze those networks by fixing the distance k.

Archive

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Last update: **2026/09/20 15:14**