졸업작품

5조 2021.09.30

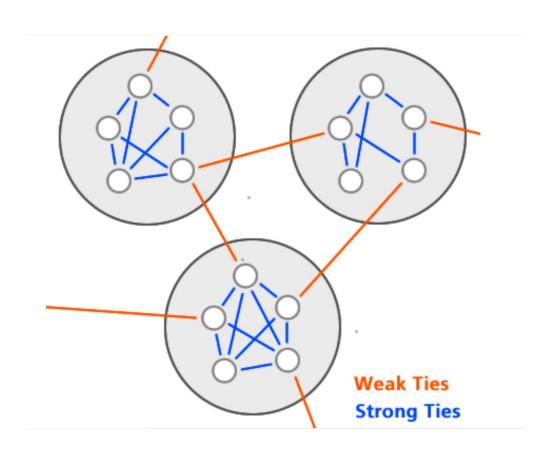
> 201935006 고효진 201533631 김도균 201935144 최윤찬

Topics

- 1) Data extraction
- 2) Methods
- 3) Appendix: call .py from .java

Data extraction

:Tie strength



Weak Ties

: Those edges that occur among nodes belonging to different communities.

Strong Ties

: Those edges occurring among nodes in the same community

Intensity, Intimacy, Duration, Reciprocal services, Structural, emotional support, Social distance

Data extraction

:Tie strength

Similarity

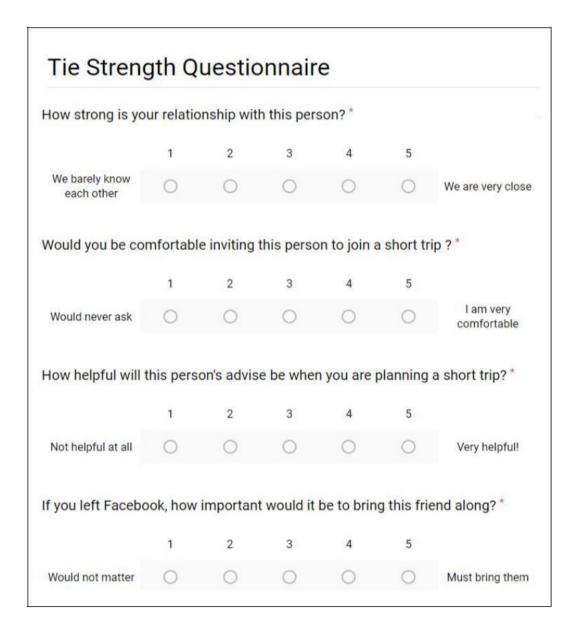
: Location Preferences, hidden relationship between users





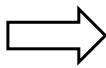
Data extraction :Tie strength

Capture the relationship strength between two users and its influence



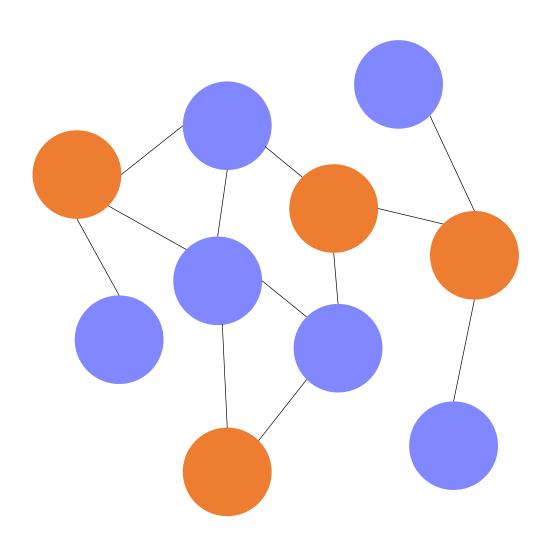
Data extraction : Tie strength

| Predictive Variable | Tie Strength Dimension | |
|-------------------------------|------------------------|--|
| Wall words | Intensity | |
| Wall posts | Intensity | |
| Number of likes | Intensity | |
| Number of Comments | Intensity | |
| Number of Friends | Intimacy | |
| Locations visited together | Intimacy | |
| Days since last communication | Duration | |
| Number of mutual friends | Structural | |
| Gender Similarity | Social Distance | |
| Age gap (in days) | Social Distance | |



| Variable | Coefficient | Standard Error | p-value | VIF |
|----------------------------------|-------------|---------------------|---------|-------|
| Gender Similarity | 0.3710 | 0.123 | 0.003 | 1.096 |
| Age Gap | 0.0643 | 0.054 | 0.237 | 1.029 |
| Wall Posts | 0.2367 | 0.141 | 0.095 | 8.176 |
| Mutual Strength | 0.1303 | 0.073 | 0.076 | 1.950 |
| Wall Words | 0.0667 | 0.068 | 0.326 | 1.494 |
| Locations Together | 0.0943 | 0.102 | 0.354 | 4.335 |
| Number of Friends | -0.1393 | 0.081 | 0.089 | 2.359 |
| Number of Likes | 0.1945 | 0.086 | 0.025 | 2.782 |
| Days Since Last Communication | -0.1235 | 0.056 | 0.029 | 1.213 |
| Number of Comments | 0.2317 | 0.106 | 0.029 | 3.808 |
| R-s quare d | 0.411 | Adjusted R-s quared | | 0.383 |

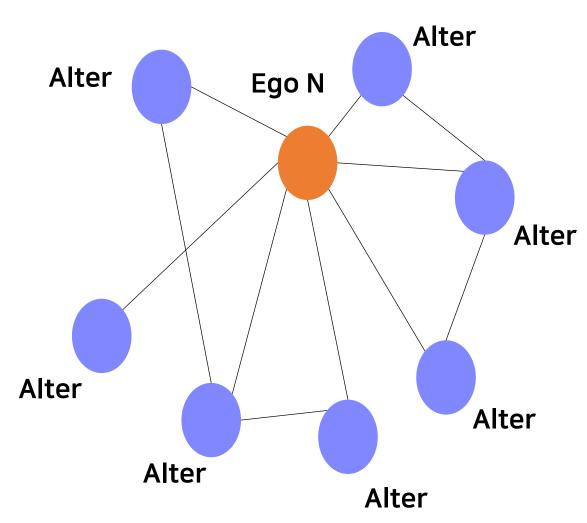
Methods



2-mod Network

: Extract 1-mod network from 2-mod network. Vice versa.

Methods

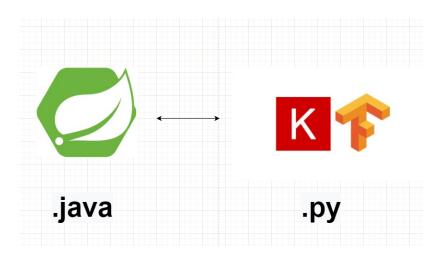


Ego Network

Expending from Ego Network to full network.Extract Ego network from Full network

https://m.blog.naver.com/khj90733/221668777824

Appendix



1. ProcessBuilder API

2. HTTP

> python -m http.server 9000