Temporal Contact Graph Reveals the Evolving Epidemic Situation of

COVID-19

File list:

- 1. Temporal contact graph.txt
- 2. Comfirmed day.txt
- 3. wh daily confirmed.npy

Description of the dataset

The data we use in the analysis is a temporal contact graph, which quantifies the daily contacts between 16,647 confirmed cases and 562,280 contacted individuals from 1 January, 2020 to 28 February, 2020. For privacy preservation, we do not have access to the raw location related data, and the temporal contact graph was constructed and provided by the Westlake Institute of Data Intelligence and her collaborated location-based service (LBS) providers upon our requests. The confirmed cases who have no contact data uploaded are not included in these files.

Temporal_contact_graph.txt has 10,269 confirmed cases and 519,400 contacted individuals with 2,464,766 edges between them. The edges represent their encounters during one day and the number of times they contacted is the weight of the edges.

With format ('|' is the separator):

day|susceptible individual|confirmed case|number of contacts

Sample:

20200113|C0DBB5B3CDB1A0CB50FACAE245059D3B|224A777CADCD5B800A8B200CE7C25710|1

Confirmed_day.txt contains the date of confirmation for the infected.

With format ('|' is the separator):

confirmed case confirmed day

Sample:

5F594CB2DEE68138AB8EDF240292807A|20200131

wh daily confirmed.npy contains the number of daily confirmed cases in Wuhan.