

15-826: Multimedia (Databases) and Data Mining

Clarifications for phase3

C. Faloutsos

Ideal response

1. Exact Dataset (CMU_2021-11-01_02...)
2. List of (edge) features
3. Justifications of your choice of features
4. List of suspects (top 2)
 1. With hash-id(s)
 2. And dash-board/evidence

(Mock) example – dataset 1/4

- 1) Results on CMU_2021-11-01_02_cmu.csv.gz
 - No sampling
 - Deleted ‘anonymous’ (dc1420...)

(Mock) example – features 2/4

Edge features (edge == (source, target))

- Count of phonecalls [*heavy hitters*, *tDoS*]
- Total / median / IQR duration [*telemarketers*]
- Total / median / IQR ring time [*telemarketers*]
- Count of successful phonecalls (SIP=2**) [*tDoS*]

(Mock) example – suspects 3/4

Suspect#1:

4b340cc617af3db416a232eace9a08ce6722ee5799e02ec810a82cc6c31b55de

Suspect#2:

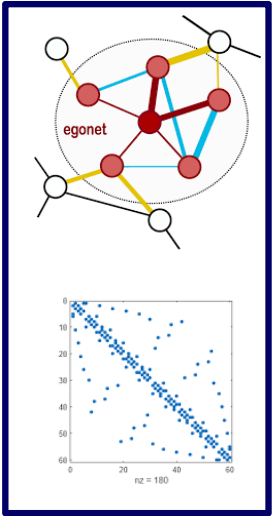
2c945e129f8623dd3b6b28d3cf719a5e98d425e687ecb5b62c970f8349ce3fb8

(Mock) example – evidence 4/4

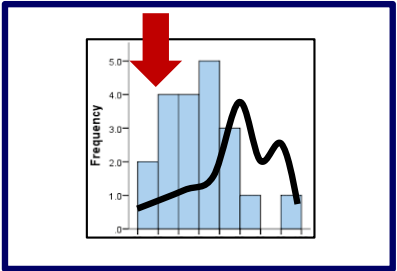
Suspect#1:

4b340cc617af3db416a232eae9a08ce6722ee5799e02ec810a82cc6c31b55de

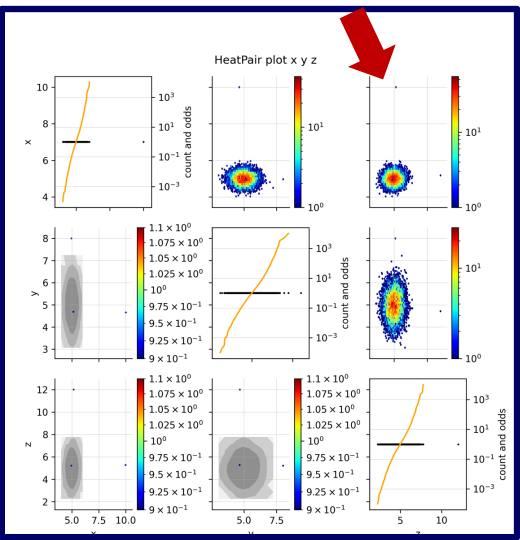
egonet



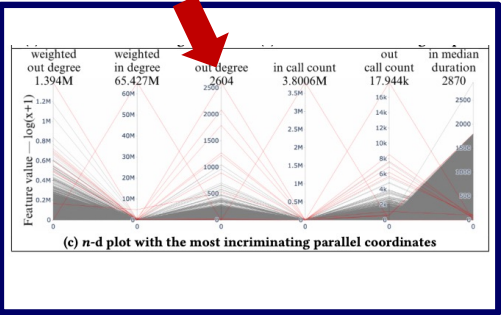
Time-of-day



Heat_pair plot



Par. axis

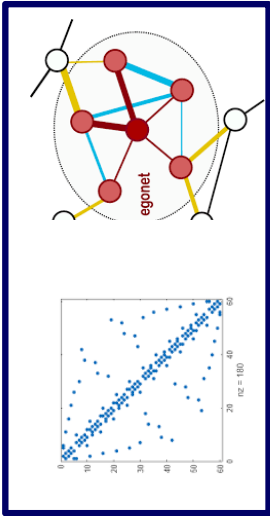


(Mock) example – evidence 4/4

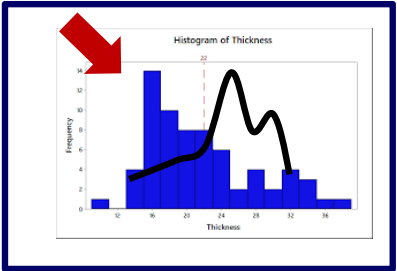
Suspect#2:

2c945e129f8623dd3b6b28d3cf719a5e98d425e687ecb5b62c970f8349ce3fb8

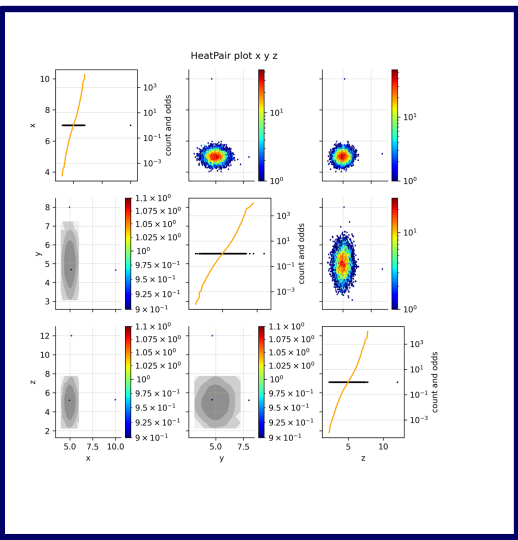
egonet



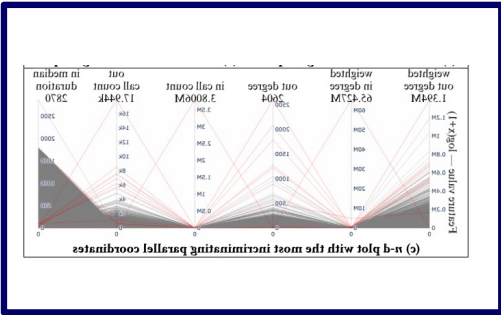
Time-of-day



Heat_pair plot



Par. axis



Intention: easy evaluation

... by Dr. Fidalgo (and a fictitious judge/jury).

Thus,

- Each suspect , and evidence, on separate page(s)
- With gray/black for the behavior of the rest

For easy e-mailing/evaluation by Dr. Fidalgo

Reminders

(Also in [announcement on canvas \(10/19\)](#))

- Heat_pairs code:
https://github.com/robsoncordeiro/HeatPair_package
- Example of dashboard:
<https://www.arxiv.org/pdf/2509.15493>