PWS Cup 2019

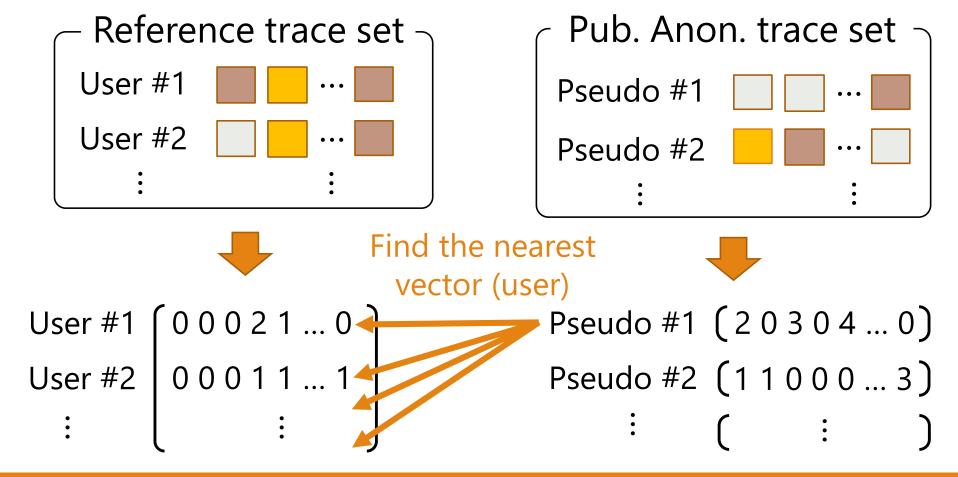
TEAM 004(また<u>ぼっち</u>, <u>BOTCH</u> AGAIN)

To foul up hopelessly Lonely

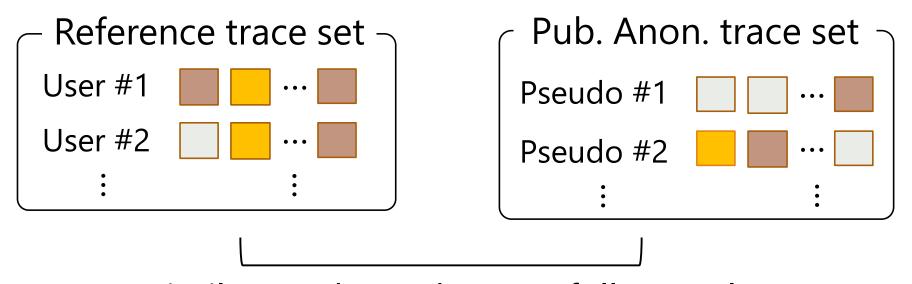
Topic

- Data anonymization technique (IDP)
- Data anonymization technique (TRP)
- ID disclosure technique
- Trace inference technique

Basic strategy: feature vector comparison



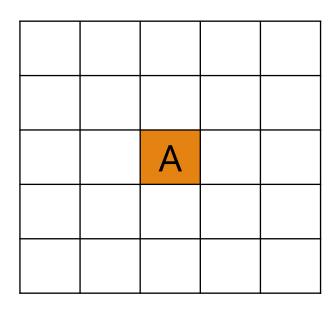
Partial knowledge model



Similar tendency, but not fully equal

Need to cope with "partially trustworthy" information (= reference trace set)

Metaphor: fully trustworthy

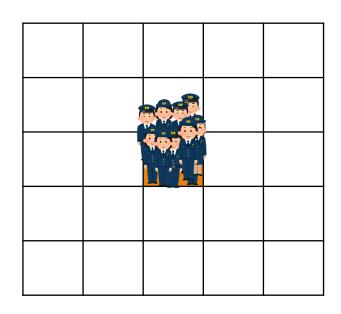


Suspect regularly witnessed at **Region A**





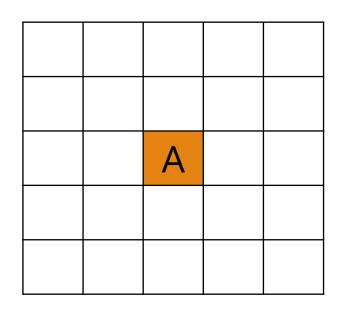
Metaphor: fully trustworthy



Suspect regularly witnessed at **Region A**



Metaphor: partially trustworthy

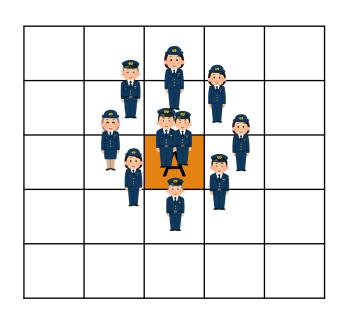


Suspect regularly witnessed somewhere near Region A





Metaphor: partially trustworthy



Suspect regularly witnessed somewhere near Region A





Incorporated this metaphor when generating feature vectors from the reference trace set

For more information...

Example:

0	0	0	0	0
0	0.099	0.121	0.099	0
0	0.121	0.20	0.121	0
0	0.099	1.121	0.099	0
0	0	0	0	0

0	0	0	0	0
0	0	0	0	0
0	0	1	0	0
0	0	0	0	0
0	0	0	0	0

Fuzzy counting $(n_0 = 0.2, \lambda = 0.5)$

Raw counting (equiv. to $n_0 = 1, \lambda = \infty$)

Come and visit my poster session (team #004) to find more about the techniques used in the contest ©