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An Investigation of Twitter Users Who Gave Likes to Tweets Disclosing Submitters' Personal Information Yasuhiko Watanabe, Toshiki Nakano, Hiromu Nishimura, and Yoshihiro Okada watanabe@rins.ryukoku.ac.jp Ryukoku University

presenter information

- Doctor of Informatics
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our research interest

- communications in SNS
- user behavior analysis
- trust and security in SNS

background

some SNS users willingly disclose their personal information

Many researchers discussed the reasons why they willingly did it. [Livingstone 2008] [Barns 2006] [Viseu 2004] [Hirai 2012]



Our research result in HUSO 2020

many unreal name users disclosed their personal information honestly.

Watanabe, Nishimura, Chikuki, Nakajima, and Okada: An Investigation of Twitter Users Who Disclosed Their Personal Profile Items in Their Tweets Honestly, IARIA HUSO 2020 (2020).





Who gave responses (likes) to his/her tweet promising to disclose his/her personal info?



Our research points in HUSO 2022

Who gave responses (likes) to tweets promising to disclose their personal information ?



We investigate relations of

- submitters promising to disclose their personal information in their tweets
- 2 "like" users who gave likes to these tweets







Mutual follow ratio of submitters X "like" users

$$P_{MF1}(t) = \frac{m}{n}$$

- *t*: a tweet promising to disclose submitter's personal info.
- **n**: # of "like" users
- # of "like" users *m*: who are mutually following the submitter of tweet t



No follow ratio of submitters X "like" users 1

$$P_{NF1}(t) = -\frac{\tau}{n}$$

- t: a tweet promising to disclose submitter's personal info.
- **n**: # of "like" users
 - # of "like" users
- I: who are not following the submitter of tweet *t*













Our survey (2)

- the 318 tweets were given
 7060 likes by 6325 users within a week after they were submitted.
- "like" users and their follow relations were surveyed for a week since the 318 tweets were submitted.
- surveyed by Twitter API v2 every 10 PM.

























