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**NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Privacy And Security In Online Social Media (course)**



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Course  
outline

How does an  
NPTEL online  
course work?  
( )

Prerequisite  
Assignment ( )

Welcome to  
PSOSM class  
( )

Introduction to  
Social Media  
API ( )

Misinformation  
and Privacy  
( )

## Week 10 : Assignment 10

The due date for submitting this assignment has passed.

**Due on 2023-10-04, 23:59 IST.**

### Assignment submitted on 2023-10-04, 22:19 IST

Please go through the below paper: "Beware of What You Share Inferring Home Location in Social Networks" at

[https://cdn.iiit.ac.in/cdn/precog.iiit.ac.in/Publications\\_files/TP\\_GM\\_MV\\_AG\\_JA\\_PK\\_VA\\_Pinsoda\\_2012.pdf](https://cdn.iiit.ac.in/cdn/precog.iiit.ac.in/Publications_files/TP_GM_MV_AG_JA_PK_VA_Pinsoda_2012.pdf)  
([https://cdn.iiit.ac.in/cdn/precog.iiit.ac.in/Publications\\_files/TP\\_GM\\_MV\\_AG\\_JA\\_PK\\_VA\\_Pinsoda\\_2012.pdf](https://cdn.iiit.ac.in/cdn/precog.iiit.ac.in/Publications_files/TP_GM_MV_AG_JA_PK_VA_Pinsoda_2012.pdf))

**Answer the following questions from 1-3.**

1) Which statement(s) is/are true?

**1 point**

- ☒ The authors perform a large-scale inference study in three popular social networks: Foursquare, Google+ and Twitter.
- ☒ The paper is looking at different social networks not only Foursquare.
- ☒ The dataset used in the paper comprises many attributes including venues where the location must be defined filling the open text fields, (limited in 30 and 127 characters, respectively), and setting a pin in the map.
- ☐ None of the above

Yes, the answer is correct.

## Privacy and Pictures on Online Social Media ()

## Policing and Social Media ()

## E-crime and social media ()

## Social media and ecrime ()

## Identity resolution and social media ()

## Research papers: Location based Privacy ()

## Research Papers Part - II ()

- Week 10.1: Beware of What You Share  
Inferring Home Location in Social Networks (unit? unit=68&lesson=69)

- Week 10.2: On the dynamics of username change behavior on Twitter (unit? unit=68&lesson=70)

- Week 10.3: Boston Marathon Analyzing Fake Content on Twitter (unit?

Score: 1

Accepted Answers:

*The authors perform a large-scale inference study in three popular social networks: Foursquare, Google+ and Twitter.*

*The paper is looking at different social networks not only Foursquare.*

*The dataset used in the paper comprises many attributes including venues where the location must be defined filling the open text fields, (limited in 30 and 127 characters, respectively), and setting a pin in the map.*

2) What is a valid AGI?

1 point

- ☐ Valid Artificial General intelligence
- ☒ Valid Ambiguous Geographical Information
- ☐ Valid Artificial Geographical Interface
- ☐ None of the above

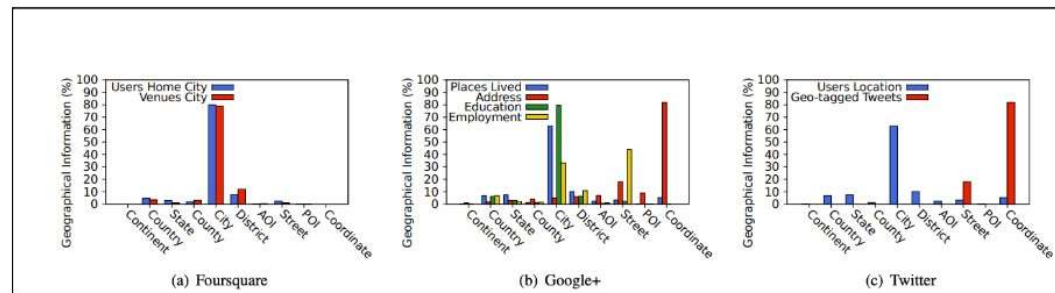
Yes, the answer is correct.

Score: 1

Accepted Answers:

*Valid Ambiguous Geographical Information*

3) Given the following figure depicts the quality of valid UGI, what is the correct inference(s) from the figure ? 1 point



- ☒ In figure (a), the vast majority (80%) of Foursquare users and venues have location information at the city level.
- ☐ In figure (b), majority of users provide home location information at country level
- ☐ In figure (c), 60% of the users have provided their location information at the district level
- ☒ In figure (b), 80% of the users have provided location information at city level.

Yes, the answer is correct.

Score: 1

Accepted Answers:

*In figure (a), the vast majority (80%) of Foursquare users and venues have location information at the city level.*

*In figure (b), 80% of the users have provided location information at city level.*

Please go through the following paper, "On the dynamics of username change behavior on Twitter"

[https://cdn.iiit.ac.in/cdn/precog.iiit.ac.in/Publications\\_files/04-Jain.pdf](https://cdn.iiit.ac.in/cdn/precog.iiit.ac.in/Publications_files/04-Jain.pdf)

unit=68&lesson=71)

● **Quiz: Week 10 : Assignment 10 (assessment? name=140)**

● **Week 10 Feedback Form : Privacy and Security in Online Social Media (unit? unit=68&lesson=72)**

**Week 11: Summary ()**

**Lecture materials/Notes ()**

**Text Transcripts ()**

**Download videos ()**

**Books ()**

**Problem Solving Session - July 2023 ()**

([https://cdn.iiit.ac.in/cdn/precog.iiit.ac.in/Publications\\_files/04-Jain.pdf](https://cdn.iiit.ac.in/cdn/precog.iiit.ac.in/Publications_files/04-Jain.pdf))

**Answer the following questions from 4-6**

4) From the overall conclusion of the paper, which of the statements is true

**0 points**

- ☐ The set of people who change their handle many times is slightly larger than those who change their handle a very small number of times.
- ☒ The set of people who change their handle many times is slightly smaller than the set of people who change their handle very less number of times.
- ☐ The set of people who change their handle many times is roughly equal to the set of people who do not change their handle.
- ☐ None of the above

Yes, the answer is correct.

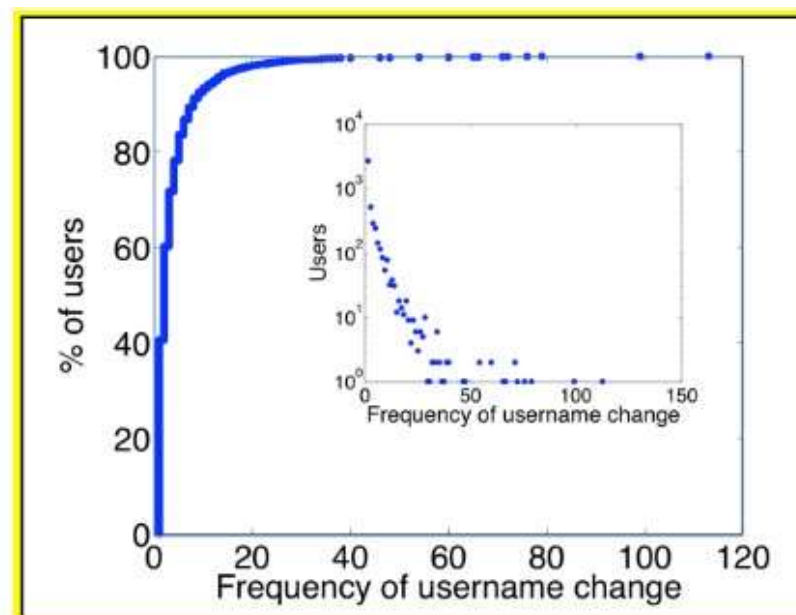
Score: 0

Accepted Answers:

*The set of people who change their handle many times is slightly smaller than the set of people who change their handle very less number of times.*

5) From the following figure, what is the correct inference?

**1 point**



- ☐ 20% of users rarely change user names in short intervals and 80% change user names frequently after longer intervals.
- ☐ 80% of users rarely change user names in short intervals, and 20% change user names frequently after longer intervals.
- ☐ 35% of users choose a user name unrelated to an old one, and 65% of users reuse an old user name.
- ☒ 20% of users frequently change user names in short intervals, and 80% change user name rarely after longer intervals.

Yes, the answer is correct.

Score: 1

Accepted Answers:

*20% of users frequently change user names in short intervals, and 80% change user name rarely after longer intervals.*

6) What is the correct observation in the paper?

**1 point**

- ☐ This paper aims at finding how and why users change their usernames within a social network like Twitter.
- ☐ Most users created new usernames unrelated to the old username when they changed usernames within a social network.
- ☐ The authors believe that unrelated usernames over time could be credited to the absence of cognitive load to remember a past dumped username.
- ☒ All of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

*All of the above*

Please go through the following paper, "Boston Marathon Analyzing Fake Content on Twitter"

[https://cdn.iiit.ac.in/cdn/precog.iiit.ac.in/Publications\\_files/ecrs2013\\_ag\\_hl\\_pk.pdf](https://cdn.iiit.ac.in/cdn/precog.iiit.ac.in/Publications_files/ecrs2013_ag_hl_pk.pdf)

([https://cdn.iiit.ac.in/cdn/precog.iiit.ac.in/Publications\\_files/ecrs2013\\_ag\\_hl\\_pk.pdf](https://cdn.iiit.ac.in/cdn/precog.iiit.ac.in/Publications_files/ecrs2013_ag_hl_pk.pdf))

**Answer the following questions from 7-10**

7) Which of the following statements is true about Boston blasts?

**1 point**

- ☒ Twin blasts occurred during the Boston Marathon on April 15th, 2013 at 18:50 GMT
- ☐ Twin blasts occurred during the Boston Marathon on April 15th, 2009 at 18:50 GMT
- ☐ Four people were killed and 264 were injured in the incident
- ☐ All of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

*Twin blasts occurred during the Boston Marathon on April 15th, 2013 at 18:50 GMT*

8) What can be depicted from the tweets shared below?

**1 point**



(a)



(b)

- ☐ Both tweets contain Fake content.  
☐ Figure (a) depicts a tweet from a fake charity profile.  
☐ Figure (b) depicts a rumour about a child being killed in the blasts.  
☒ All of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

*All of the above*

9) What are the major contributions of the figure?

**1 point**

- ☒ The authors characterised the spread of fake content on Twitter using temporal, source and user attributes.  
☒ The authors used linear regression to predict how viral a rumour would be in the future based on its current user characteristics.  
☒ The authors analysed the activity and interaction graphs for the suspended user profiles created during the Boston blasts.  
☐ None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

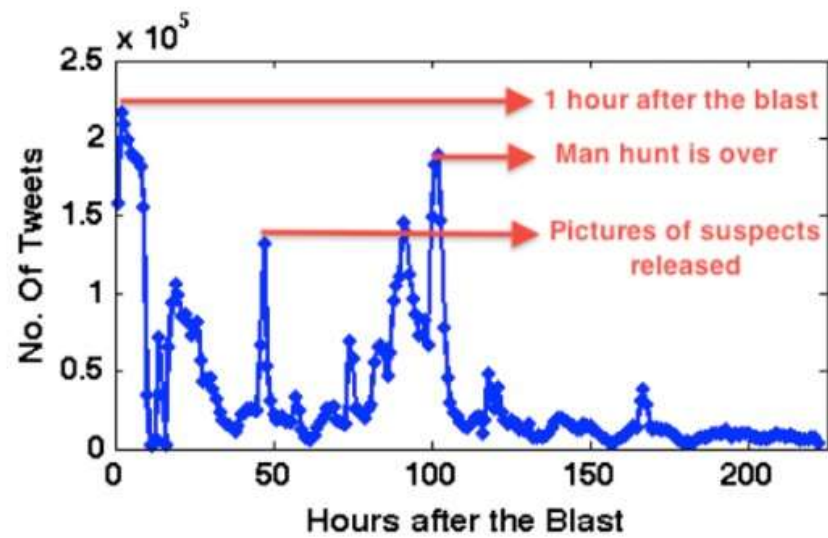
*The authors characterised the spread of fake content on Twitter using temporal, source and user attributes.*

*The authors used linear regression to predict how viral a rumour would be in the future based on its current user characteristics.*

*The authors analysed the activity and interaction graphs for the suspended user profiles created during the Boston blasts.*

10) What does the following figure depict?

1 point



- ☒ The figure shows the temporal distribution of tweets after the Boston blast
- ☐ The figure shows the spatial distribution of tweets after the Boston blast
- ☐ Both of the above
- ☐ None of the above

Yes, the answer is correct.  
Score: 1

Accepted Answers:

*The figure shows the temporal distribution of tweets after the Boston blast*