computational social media

reading session: logistics + assignments

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reading session logistics

role 1: presenter
- read paper in depth
- prepare a slide presentation: 15-min presentation
- points to present: (1) what problem is addressed? (2) what are the scientific contributions? (3) what are the proposed methods? (4) what are the findings?

role 2: discussant
- read paper in depth
- prepare a slide presentation to lead the discussion
- possible points for discussion: (1) how to improve the technical work? (2) what implications do the ideas have for computer science? (3) what implications do the ideas have for society? (4) what are the limitations? (5) are there any controversial issues?

everyone else
- read paper abstract and introduction before class
- participate in the discussion
paper list (in the order we will discuss them)

1. M. Burke, L. Adamic, K. Marciniak (Week 3)
   Families on Facebook
   Proc. AAAI ICWSM, 2013

2. M. Kosinski, D. Stillwell, T. Graepel (Week 4)
   Private Traits and Attributes are Predictable from Digital Records of Human Behavior
   PNAS, 2013

3. Z. Tufekci (Week 8)
   Big Questions for Social Media Big Data: Representativeness, Validity, and Other Methodological Pitfalls
   Proc. AAAI ICWSM 2014

4. S. Vosoughi, D. Roy, S. Aral (Week 9)
   The Spread of True and False News Online
   Science, Mar. 2018

5. A. G. Reece, C. M. Danforth (Week 11)
   Instagram Photos Reveal Predictive Markers of Depression
   EPJ Data Science, 2017
6. T. Gebru, J. Krause, Y. Wang, D. Chen, J. Deng, L. Fei-Fei (Week 12)
Using Deep Learning and Google Street View to Estimate the Demographic Makeup of Neighborhoods across the United States
PNAS, 2017

7. M. Redi, N. O Hare, R. Schifanella, M. Trevisiol, A. Jaimes (Week 13)
6 Seconds of Sound and Vision: Creativity in Micro-Videos
Proc. CVPR 2014

8. T. Bolukbasi, K.-W. Chang, J, Zou, V. Saligrama, A Kalai (Week 14)
Man is to Computer Programmer as Woman is to Homemaker? Debiasing Word Embeddings
Proc. NIPS 2016

9. A. Birhane, V. Uday Prabhu (Week 15)
Large Image Datasets: A Pyrrhic Win for Computer Vision?
Proc. IEEE/CVF WACV, 2021

10. K. Yang, K. Qinami, L. Fei.-Fei, J. Deng, O. Russakovsky (Week 15)
Towards Fairer Datasets: Filtering and Balancing the Distribution of the People Subtree in the ImageNet Hierarchy
Proc. ACM FAT*, 2020
paper assignment procedure

Each student will be either presenter or discussant for one paper.

Go to the google form shared on the zoom/moodle to see the list of papers. The papers are listed in the order they will be discussed in class, starting on Week 3 of the course.

Complete the form, ranking all papers according to your own interests (1: highest; 10: lowest).

**Deadline:** Monday, March 1, 6pm

We will use your input to make the assignments trying to satisfy your top choices as much as possible.

The final assignments (names and dates) will be announced on Tuesday, March 2 by email. This includes the first paper (paper #1 in the list) to be presented & discussed on Friday, March 12.
questions?

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