

## **Class 8: Datafication: Future directions and ethical considerations**

- Datafication is a social phenomenon. It has implications for individuals, organizations, and society in general.

# Implications for individuals

- New ways of working
- Blurring boundaries between work and private lives
- Increased surveillance and monitoring potential



Source: <https://pixabay.com/images/id-5333802/>



Source: <https://pixabay.com/images/id-1903997/>

Source: see also Plesner & Hurst, 2019

# Implications for organizations

Type of organization	Implications of datafication
<b>Private Organizations (Businesses, Startups)</b>	<ul style="list-style-type: none"><li>• Collaborative paradigm</li><li>• Openness and the search for value outside of organizations</li><li>• New visibilities and control</li><li>• Data-driven competition</li></ul>
<b>Public Organizations</b>	<ul style="list-style-type: none"><li>• Data-based public service</li><li>• Legitimation</li><li>• Legislative struggles</li></ul>
<b>Non-Governmental (Voluntary/Hybrid/Fluid) Organizations</b>	<ul style="list-style-type: none"><li>• Personalization of politics</li><li>• Digital-platform driven activism</li></ul>

Source: Adopted from Plesner & Hurst, 2019

# Implications for society

- New value-adding infrastructures versus power concentration
- New opportunities for division of labor across the globe vs reinforcement of inequality



What now?



# New problems, new questions



Popular

Latest

*The Atlantic*

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## TECHNOLOGY

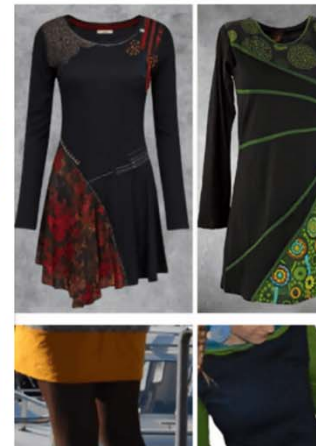
### You No Longer Own Your Face

Students were recorded for research—and then became part of a data set that lives forever online, potentially accessible to anyone.

SIDNEY FUSSELL JUNE 27, 2019



MODETALENTE



[https://www.theatlantic.com/technology/archive/2019/06/universities-record-students-campus-research/592537/?utm\\_source=twitter&utm\\_medium=social&utm\\_term=2019-06-27T19%3A07%3A04&utm\\_campaign=the-atlantic&utm\\_content=edit-promo.2](https://www.theatlantic.com/technology/archive/2019/06/universities-record-students-campus-research/592537/?utm_source=twitter&utm_medium=social&utm_term=2019-06-27T19%3A07%3A04&utm_campaign=the-atlantic&utm_content=edit-promo.2)

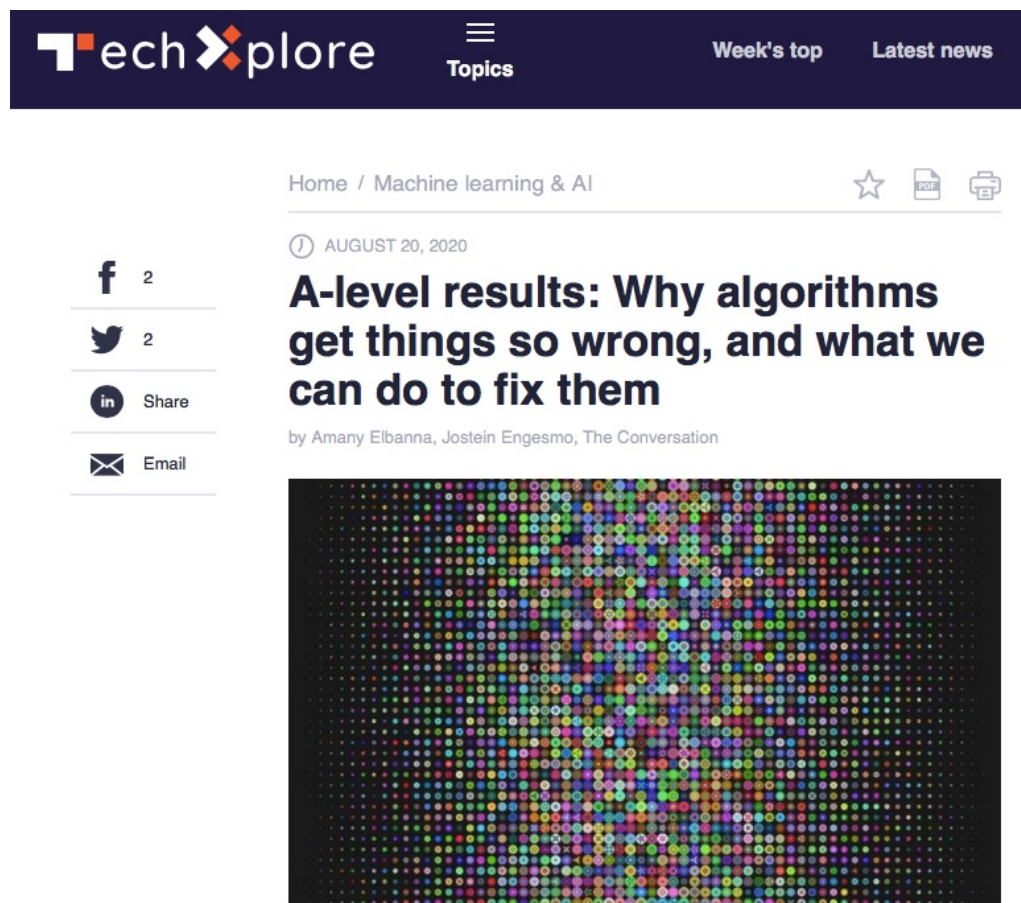
”Many of the assumptions about human life made by machine learning systems are narrow, normative and laden with error. Yet, they are inscribing and building those assumptions into a new world, and will increasingly play a role in how opportunities, wealth, and knowledge are distributed’ (Crawford & Joler 2018, n.p.).



Source: Joy Buolamwini. Gender shades.  
<http://gendershades.org>.



# Decenter technology in discourses on the dark sides of datafication



Credit: CC0 Public Domain

Gangadharan, Seeta Peña and Niklas, Jędrzej (2019)  
Decentering technology in discourse on discrimination.  
Information, Communication & Society, 22 (7). 882 - 899. ISSN 1369-118X

# Ten simple rules for responsible big data research

1. Acknowledge that data are people and can do harm
2. Recognize that privacy is more than a binary value
3. Guard against the reidentification of your data
4. Practice ethical data sharing
5. Consider the strengths and limitations of your data; big does not automatically mean better
6. Debate the tough, ethical choices
7. Develop a code of conduct for your organization, research community, or industry
8. Design your data and systems for auditability
9. Engage with the broader consequences of data and analysis practices
10. Know when to break these rules

Source: Zook M, Barocas S, boyd d, Crawford K, Keller E, Gangadharan SP, et al. (2017)

Ten simple rules for responsible big data research.

PLoS Comput Biol 13(3): e1005399. <https://doi.org/10.1371/journal.pcbi.1005399>

# References

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