consider protections, and mean the subdemption of the pro-

Latter Tax Tro Orreganser's sciences

n en ferensen formen senten i de seur d'andre seur d'arte de la serie de la senten de la serie de la serie de s En serie de la s En serie de la s

class "Shed diffuturettrapper"s

or Module Peri-Reflution bit Habrah mode-

toris 679" hyper "hutline"

careadolity Teet" - Aaste - lagan - - Bullon

and a second rate was a second at the second second

ora - "211".

style-"beingtood shittet,"

nation of an annual financial sector of a sector of a

watter change of "horses Mann" region

Bad Actors

Stephen Downes November 1, 2021 THE CLASS Produces and and

An eleven "stream and

mate don't succession to be approximately. But success these approximately approximately

an state frequences the strength

rary classer/biosable/scourt isom/Count/Linea/%

\*# class \*\*exclation lines\* heal\*\*peo/2471245179(527100136ee\* de ta-station type=\*172\*\*

ren dassrökalustönarreisen

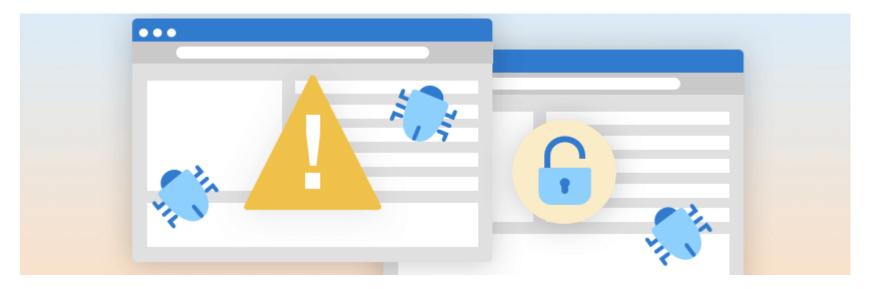
-----

report chemical completing front of any important data

Collections Taken Degitige Rates Notice Conflict and Section Parks

### **Bad Actors**

- The concept of the 'bad actor' is a person who uses a technology for illegal or immoral purposes.
- The definition of 'bad actor' can vary from culture to culture
- We will focus on bad actors in Al/analytics specifically



Title slide: https://www.govtech.com/security/bad-actors-have-adapted-well-to-the-pandemic-crisis.html

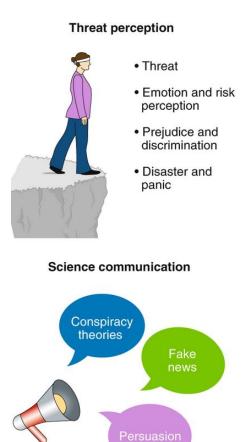
### Misrepresentation

Al and analytics can be fraudulently used by pretending that they are able to do something they are not

https://www.pr opublica.org/art icle/why-arecops-aroundthe-worldusing-thisoutlandishmindreadingtool

memyself and Anthony did this business I was buying venture first, because all the had the capital. I didn't have the capital to get it done. Um and he (he didn't see the long term in it. And so he kind of huh left. He left the business hauther. And by that time h had a friend named Connor Cost that I do partnership here in the tival designs you know contracting. mand, well hey I'll buy himout So he came for his way out by for (I'm) not sure it was like either \$15 or \$20 grand or something like that. This is cool T because that's what he got invested at t

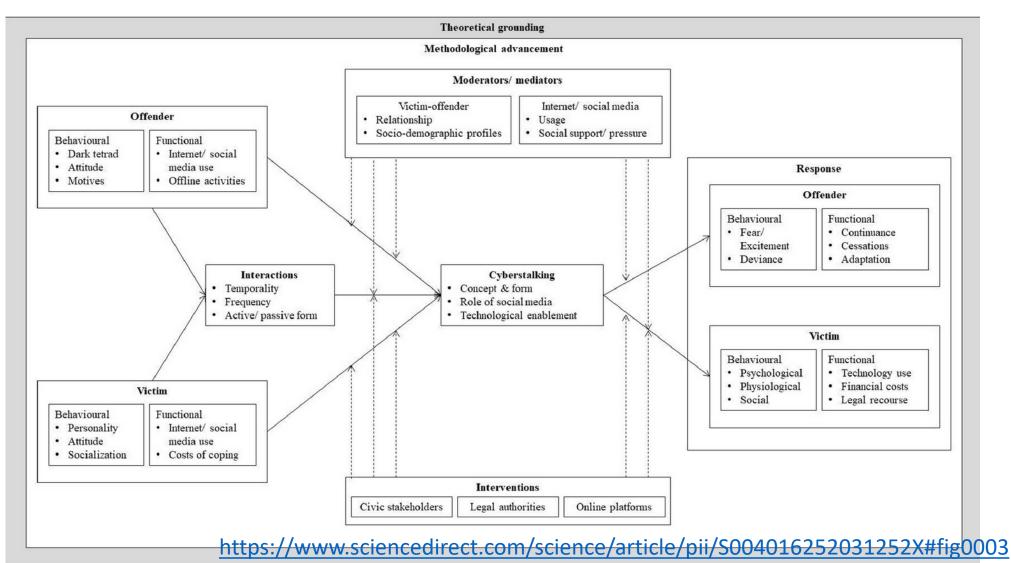
### **Conspiracy Theorists**



- person or group who promotes an alternative narrative alleging a coordinated campaign of disinformation, usually on the part of recognized authorities or institutions.
- conspiracy theorists often replicate analytical methods and dissemination, and sometimes subject existing analytics for their own purposes.

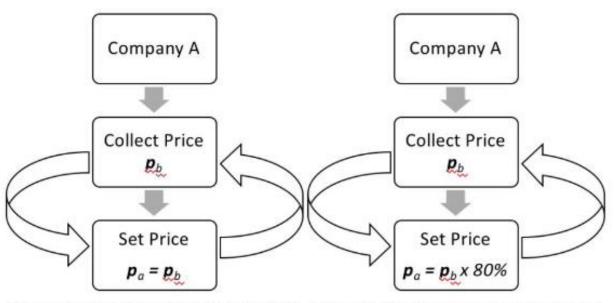
https://www.nature.com/articles/s41562-020-0884z?fbclid=IwAR3X2coFq94s4o1w99wt4SrnaRNYYW4W4AlyiXVGY rYi9nnPrcOJLV3PDhk

### Stalkers



## Collusion

Algorithms... consistently learn to charge supracompetitive prices, without communicating with one another.



Company A collects Company B's price and sets its own price to match Company B

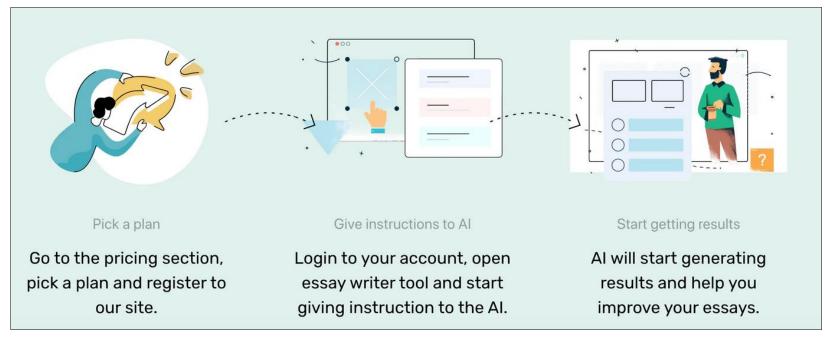
Company A collects Company B's price and sets its own price to undercut Company B's prices by twenty percent.

https://papers.ssrn.com/sol3/papers.cf m?abstract\_id=3213296

Figure 1: Illustration of Traditional Pricing Algorithms<sup>21</sup>

### AI-Enabled Cheating

- Examples:
  - matching students to an academic ghostwriter
  - Using an AI to write an essay



#### https://researchai.co/

## Audio/Video Impersonation

Al-generated impersonations can be used for a variety of illicit purposes, including authentication, cheating, misattribution, and more



https://www.quor a.com/What-is-Deepfaketechnique-in-Al

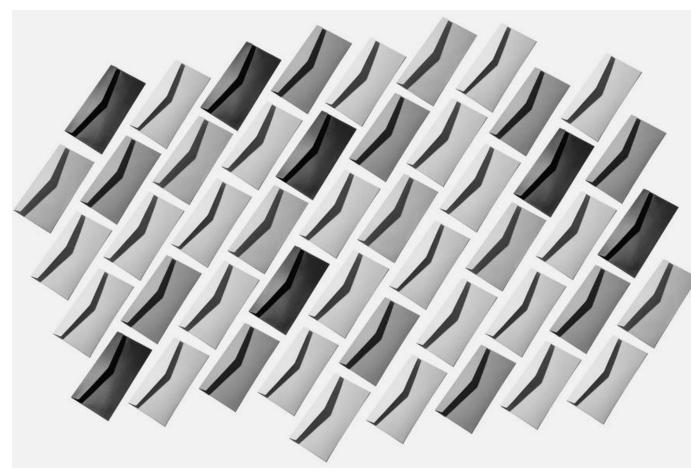
### Driverless vehicles as weapons



# Perhaps not an academic issue, nonetheless, of concern to academic institutions

https://www.npr.org/2021/06/01/1002196245/a-u-n-report-suggests-libya-saw-thefirst-battlefield-killing-by-an-autonomous-d

## Tailored Phishing



https://www.wired.com/story/ai-phishing-emails/

"Researchers found that they could use the deep learning language model GPT-3, along with other Al-as-a-service platforms, to significantly lower the barrier to entry for crafting spearphishing campaigns at a massive scale."