Weaponising jon's research

Jon Crowcroft,
http://www.cl.cam.ac.uk/~jac22

3 examples of normative ethics fail

1. DPI
2. DSI
3. CA
4. Oh, ok 4 – recombinant malware

DPI

- Endace
- measurement:
- https://www.cl.cam.ac.uk/~jac22/out/konstantina-papagiannaki.pdf
- >NSA (surveillance)
- https://en.wikipedia.org/wiki/The_Snowden_Files

DSI

- Mbone
- multicast
- https://www.cl.cam.ac.uk/~jac22/otalks/ballardie-thesis.ps.Z
- >DSI (war)
- https://www.ncbi.nlm.nih.gov/pubmed/7643020

CA

- MyPersonality
- facebook:
- https://www.cl.cam.ac.uk/research/srg/netos/papers/p955-quercia.pdf
- >CA (democracy)
- https://www.theguardian.com/news/2018/mar/26/the-cambridge-analytica-files-the-story-so-far

malware

- Vigilante observes behaviour of malare & builds self-certifying alert+patch

https://www.microsoft.com/en-us/research/publication/vigilante-end-to-end-containment-of-internet-worms/

- So now the bad guy doesn't just have polymorphic worms:-

Can build recombinant malware…bad bad bad

https://www.nature.com/articles/455290a

What to do about it?

- Not do research?
- Warn people about poor uses of ideas?
- Patent/protect tech to control?
- Something new?

Who Am I?