Your privacy - where has it gone?

... and will it be back?

Talk by Dr. Andrzej NOWAK – April 2022
CERN Academic Training Programme
Part 3 of 3 – The Future
Twitter accepts Elon Musk’s buyout deal
force majeure, n.

“superior or irresistible force”

→ a cover
→ a distraction
“Current notions of privacy will continue to evolve, with individuals needing to share more personal information for access to applications, and tracking becoming ubiquitous.”

National Intelligence Council – Global Trends 2040
mass surveillance continues and amplifies

→ your data is turned into scores
→ digital reputation matters
→ you become limited
→ you limit yourself further
→ social cooling (Tijmen Schep)
The city's police are using **facial recognition** technology to identify pedestrians who do not follow the traffic laws.
Social Credit Systems. China examples

Suining – credit points deduction
Rongcheng – one score, many sources
Sesame Credit – AI and loyalty rewards
Suining System Score Catalogue

1. Commercial services credit information (150 points)
   - Bank loans (50 points).
   - Credit card non-repayment (50 points).
   - Contract performance (30 points).
   - Peer-to-peer loans (20 points)

2. Social services credit information (120 points)
   - Tax arrears or evasion (50 points).
   - Utility fee payments (35 points).
   - Social security payments

3. Social management credit information (530 points)
   - City management (25 points).
   - Producing or selling fake goods (35 points).
   - Pyramid selling, swindling (35 points).
   - Birth planning (35 points).
   - Heretical activities (50 points).

35C3, Antonia Hmaidi
Using wireless signals means it can see through obstructions
Crypto... everything

...graphy  e2e, cloud, implicit, wallets, agents
...currency  mint & trade your own, stablecoins
...assets  tokenization
...hippies/punks  DAO wizards

“privacy-preserving computation”
zero trust
value exchange, store

Payment networks → token & payload agnostic
Privately-built currencies → barter era 2.0?
Digital cash → do we trust our governments? Do they trust us?
private vs. public
Sources: Atlantic Council Research, Bank of International Settlements, International Monetary Fund, John Kiff Database
predictive and automated policing

pre-crime
AI jury
AI clerks
AI witnesses?

AI decisions and support
Big Data to fight Big Disease

does a public good override personal privacy concerns?
obligation to share?
should a corporation profit?
Your third cousin gets genetically tested...and you are identifiable.
You Can Now Sign Away Rights to Your Biometric Data

Getty Images is now using an 'Enhanced Release' form, which prompts photo models to consent to the use of biometrics like facial data.

By Janus Rose
NEW YORK, US

March 29, 2022, 3:00pm
Quantum... everything?

...computing
...cracking
...encryption

?
Scenario 1
Scenario 2

more of the same

stable or quiet “consensus”
Scenario 3
Scenario 4
“Surrogates” (2009), Touchstone P.
“Idiocracy” (2006), 20th C. Fox
Will our privacy be back?

Money and convenience rule(d)

So... no, not unless we claw it back. Start with value.
Final thoughts
(1) This is not a conspiracy theory, it is real
(2) The democratization of tech matters. Think about who you trust and why. Support transparency with brownie points.
Recommended reading:

2015 - Bruce Schneier – "Data and Goliath"
2016 - Cathy O'Neil – "Weapons of Math Destruction"
2022 - Stephanie Hare – “Technology is Not Neutral: A Short Guide to Technology Ethics”

+ hackercons
“Your rights matter, because you never know when you're going to need them”

Edward Snowden