Information System (Ethics) Case Studies

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http://jpaulgibson.synology.me/~jpaulgibson/TSP/Teaching/
CSC4104/CSC4104-InformationSystemEthicsCaseStudies.pdf

For your IS ethical case study

Choose one of the following examples, or agree on your own case

3.2 Some ethical case studies

- Post Office IT system that ruined lives 'still faulty', MPs told, source - BBC.

- The apps you use on your phone could help diagnose your cognitive health, source - MIT technical review

- New facial recognition cameras get green light in London , source - Irish Independent

- Bluetooth-Related Flaws Threaten Dozens of Medical Devices, source - Wired

- Twelve Million Phones, One Dataset, Zero Privacy , source - New York Times

- Tesla Autopilot System Found Probably at Fault in 2018 Crash, source - New York Times

- Volkswagen emissions scandal: mass lawsuit opens in Germany, source - The Guardian

- Catastrophic software errors doomed Boeing's airplanes ..., source - Business Insider

- Can you use apps to track coronavirus and protect privacy? Europe's going to try, source - CNN

- NJ's 40-year-old system increases delays for unemployment checks amid coronavirus crisis, source - NorthJersey.com

- « Mon Master » : des « bugs » sur la nouvelle plateforme perturbent la finalisation des candidatures, source - ouest-france.fr

- Hôpital de l'Essonne cyberattaqué: les hackers ont diffusé des données, source - lefigaro.fr

- Après un énorme bug de Parcoursup, délai rallongé pour compléter ses vœux, source - marianne.net

- Bitcoin Uses More Electricity Than Many Countries. How Is That Possible?, source - nytimes.com

Post Office IT system that ruined lives 'still faulty', MPs told

10 March 2020

Public confidence in sub-Post Offices has been damaged, MPs were told

By Brian Wheeler
Political reporter

https://www.bbc.com/news/uk-politics-51817918

MIT Technology Review

Featured   Topics   Newsletters   Events

ARTIFICIAL INTELLIGENCE

The apps you use on your phone could help diagnose your cognitive health

By Karen Hao   January 10, 2020

Differences in the way healthy and cognitively impaired individuals used their smartphones were enough to tell them apart.

https://www.technologyreview.com/2020/01/10/130946/the-apps-you-use-on-your-phone-could-help-diagnose-your-cognitive-health/

Irish Independent | News Opinion Business Sport Life Style Entert

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New facial recognition cameras get green light in London

Facial recognition cameras have been deployed in other British cities and shopping centres but their use has prompted privacy concerns and opponents have questioned the accuracy of the technology. (stock photo)
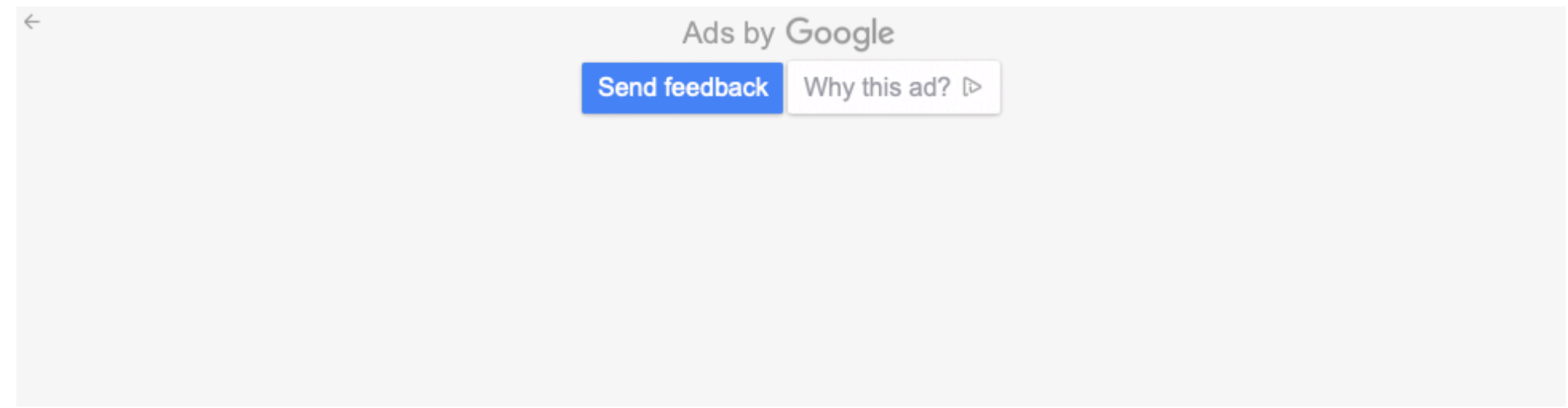
Elizabeth Howcroft

Sat 25 Jan 2020 at 03:30

Police officers are to start operational use of live facial recognition (LFR) cameras in London, despite warnings over privacy from rights groups and concerns expressed by the government's own surveillance watchdog.

https://www.independent.ie/news/new-facial-recognition-cameras-get-green-light-in-london/38894038.html

LILY HAY NEWMAN   SECURITY   FEB 20, 2020 7:00 AM

Bluetooth–Related Flaws Threaten Dozens of Medical Devices

Hundreds of smart devices—including pacemakers—are exposed thanks to a series of vulnerabilities in the Bluetooth Low Energy protocol.

https://www.wired.com/story/bluetooth-flaws-ble-internet-of-things-pacemakers/

Opinion | THE PRIVACY PROJECT

Twelve Million Phones, One Dataset, Zero Privacy

By Stuart A. Thompson and Charlie Warzel

DEC. 19, 2019

https://www.nytimes.com/interactive/2019/12/19/opinion/location-tracking-cell-phone.html

The New York Times

Tesla Autopilot System Found Probably at Fault in 2018 Crash

The National Transportation Safety Board called for improvements in the electric-car company's driver-assistance feature and cited failures by other agencies.

A National Transportation Safety Board investigation concerned a 2018 accident in Mountain View, Calif., that killed the driver of a Tesla Model X sport utility vehicle. KTVU-TV, via Associated Press

https://www.nytimes.com/2020/02/25/business/tesla-autopilot-ntsb.html

https://www.theguardian.com/business/2019/sep/30/volkswagen-emissions-scandal-mass-lawsuit-opens-in-germany

BUSINESS INSIDER

SCIENCE

Catastrophic software errors doomed Boeing's airplanes and nearly destroyed its NASA spaceship. Experts blame the leadership's 'lack of engineering culture.'

Morgan McFall-Johnsen   Feb 29, 2020, 2:07 PM CET   Share   Save

Left: Right: The CST-100 Starliner spacecraft is prepared for Boeing's Orbital Flight Test, November 2, 2019.
Jason Redmond/Reuters; Boeing

https://www.businessinsider.com/boeing-software-errors-jeopardized-starliner-spaceship-737-max-planes-2020-2?r=US&IR=T

Can you use apps to track coronavirus and protect privacy? Europe's going to try

By Hadas Gold, CNN Business
5 minute read · Updated 9:42 AM EDT, Fri April 3, 2020
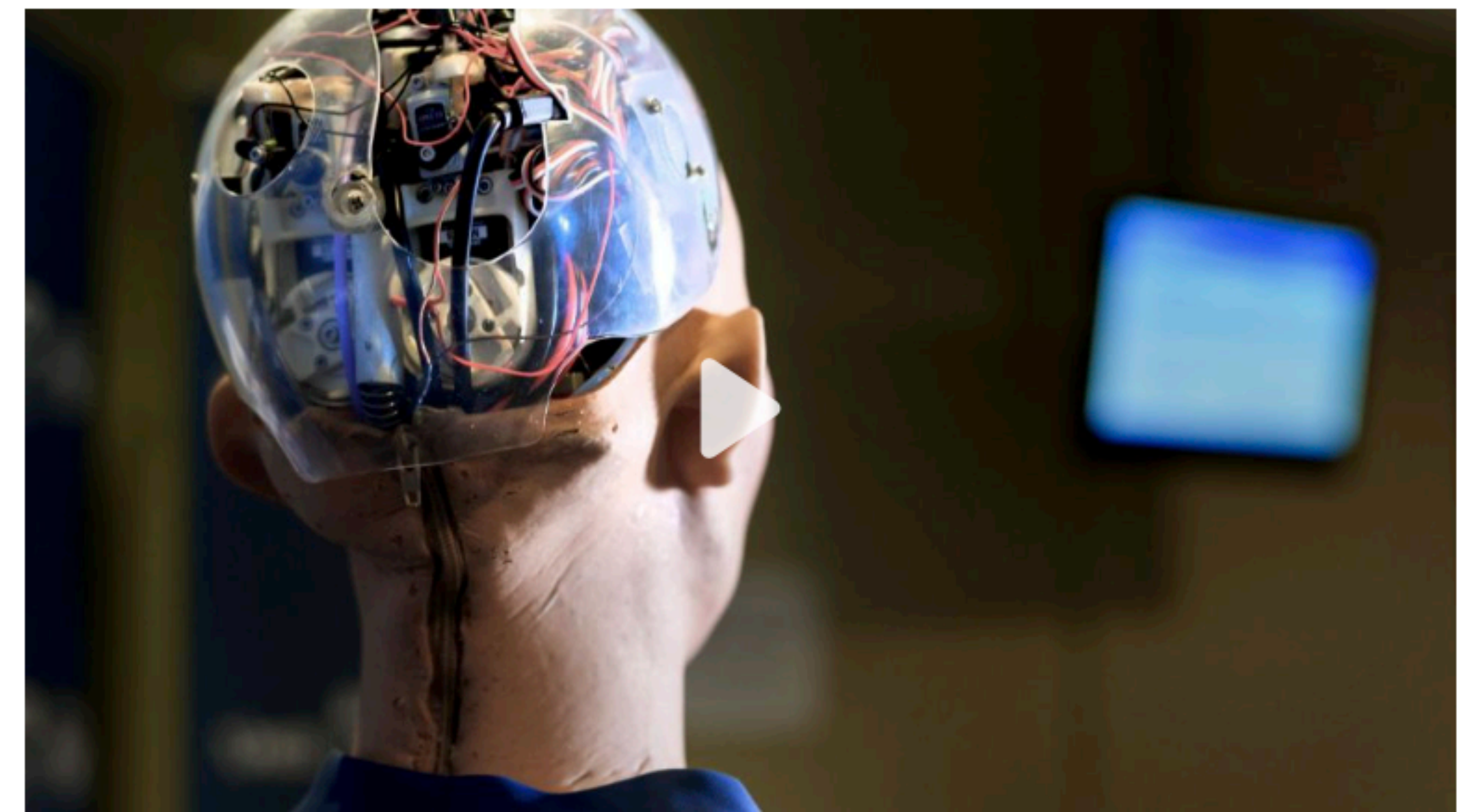
https://edition.cnn.com/2020/04/03/tech/coronavirus-tracing-app-uk-europe/index.html

northjersey.com

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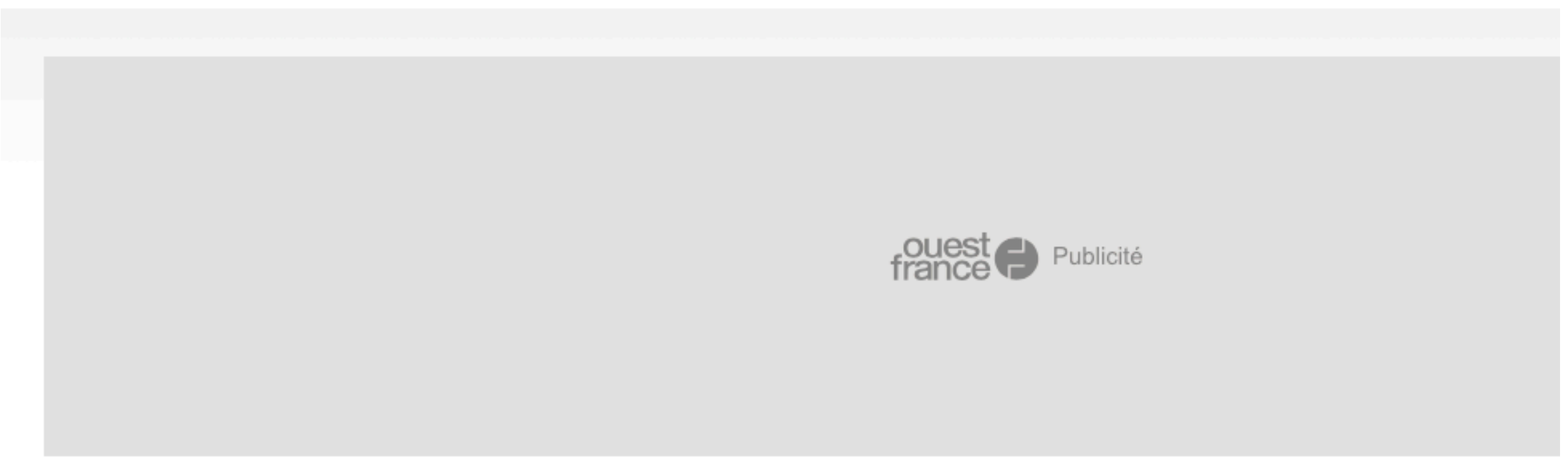**NJ's 40-year-old system increases delays for unemployment checks amid coronavirus crisis**

ASHLEY BALCERZAK ,   SCOTT FALLON | NorthJersey.com
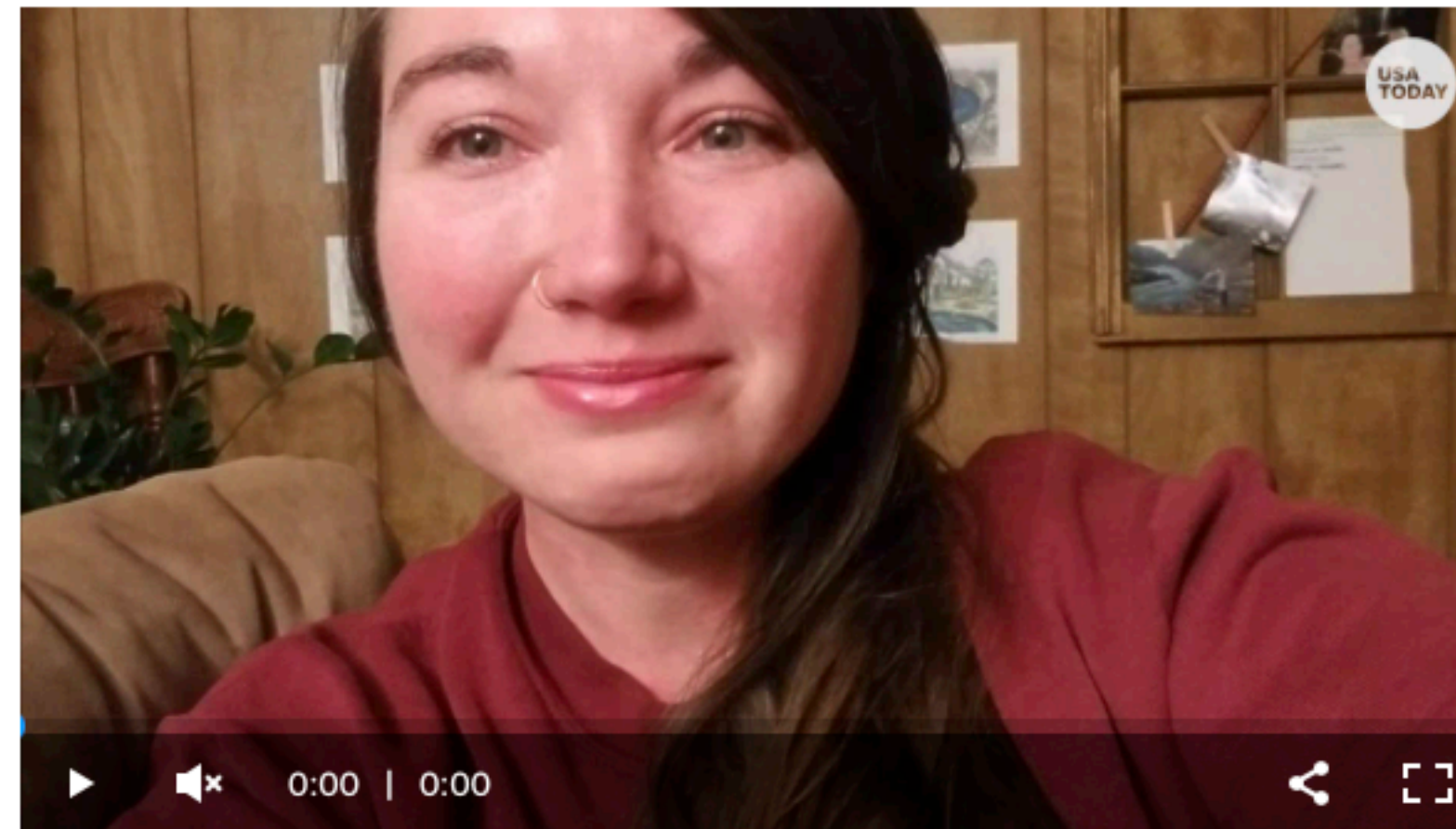
Show Caption ⌄

New Jersey officials vowed Saturday to speed up the processing of unemployment claims despite relying on a 40-year-old computer system that has been overwhelmed by the record number of requests due to the coronavirus crisis.

https://eu.northjersey.com/story/news/new-jersey/2020/04/04/coronavirus-nj-40-year-old-system-adds-delay-unemployment-checks/2944985001/

« Mon Master » : des « bugs » sur la nouvelle plateforme perturbent la finalisation des candidatures

La deadline était fixée à mardi. Finalement, les étudiants qui candidatent en master sur la nouvelle plateforme ont eu une rallonge de 48 heures après des problèmes techniques constatés sur le site. Les dossiers sont à finaliser pour ce jeudi 20 avril, avant minuit. Lancé en mars pour harmoniser les dossiers de candidature et les calendriers des universités, « Mon Master » peine à convaincre.

Ouest-France
Johan BESCOND.
Publié le 19/04/2023 à 18h57

https://www.ouest-france.fr/education/etudiant/mon-master-des-bugs-sur-la-nouvelle-plateforme-perturbent-la-finalisation-des-candidatures-a6d1f4d6-dea2-11ed-83ea-d6585ef0e4e2

Hôpital de l'Essonne cyberattaqué: les hackers ont diffusé des données

Par **Éric De La Chesnais**
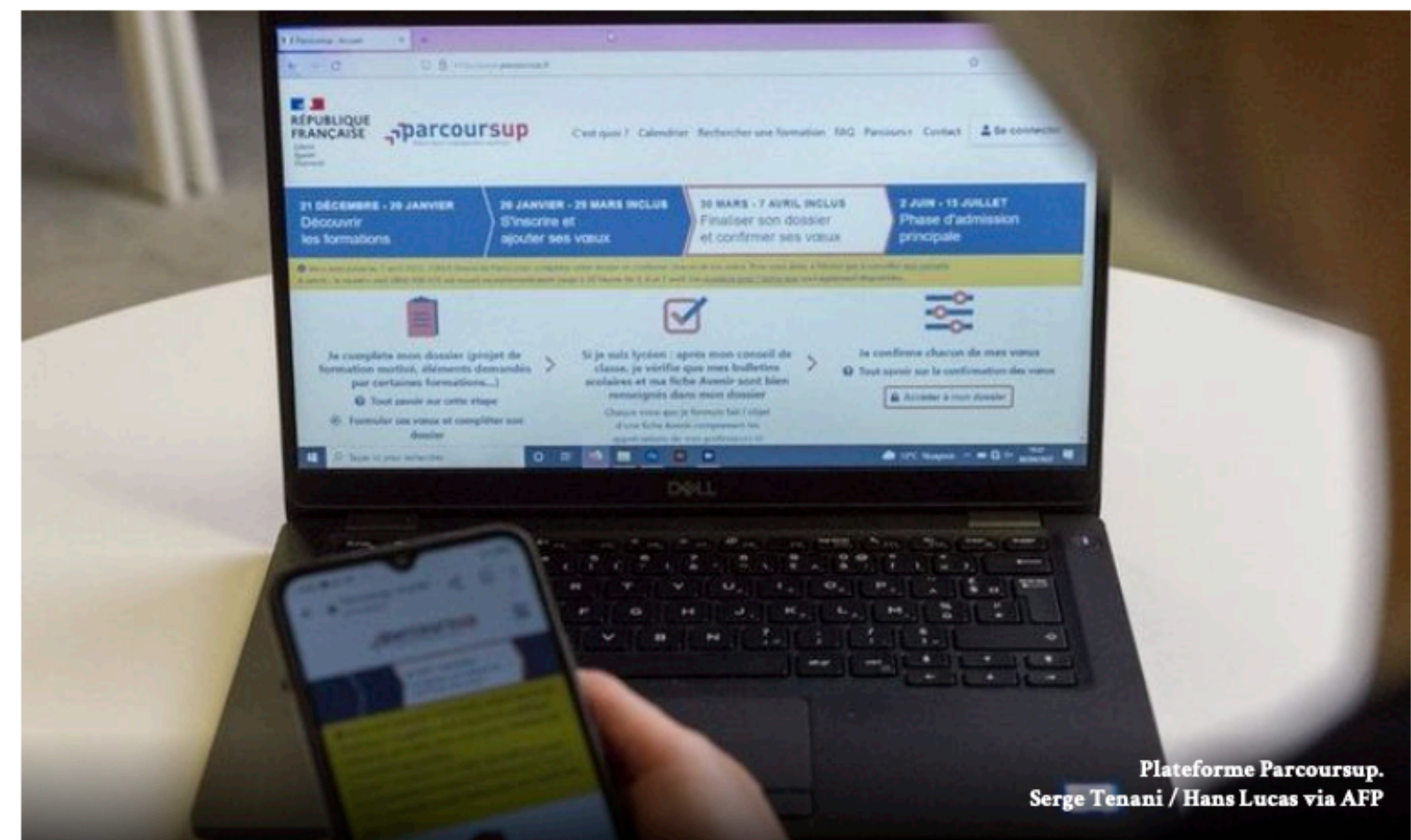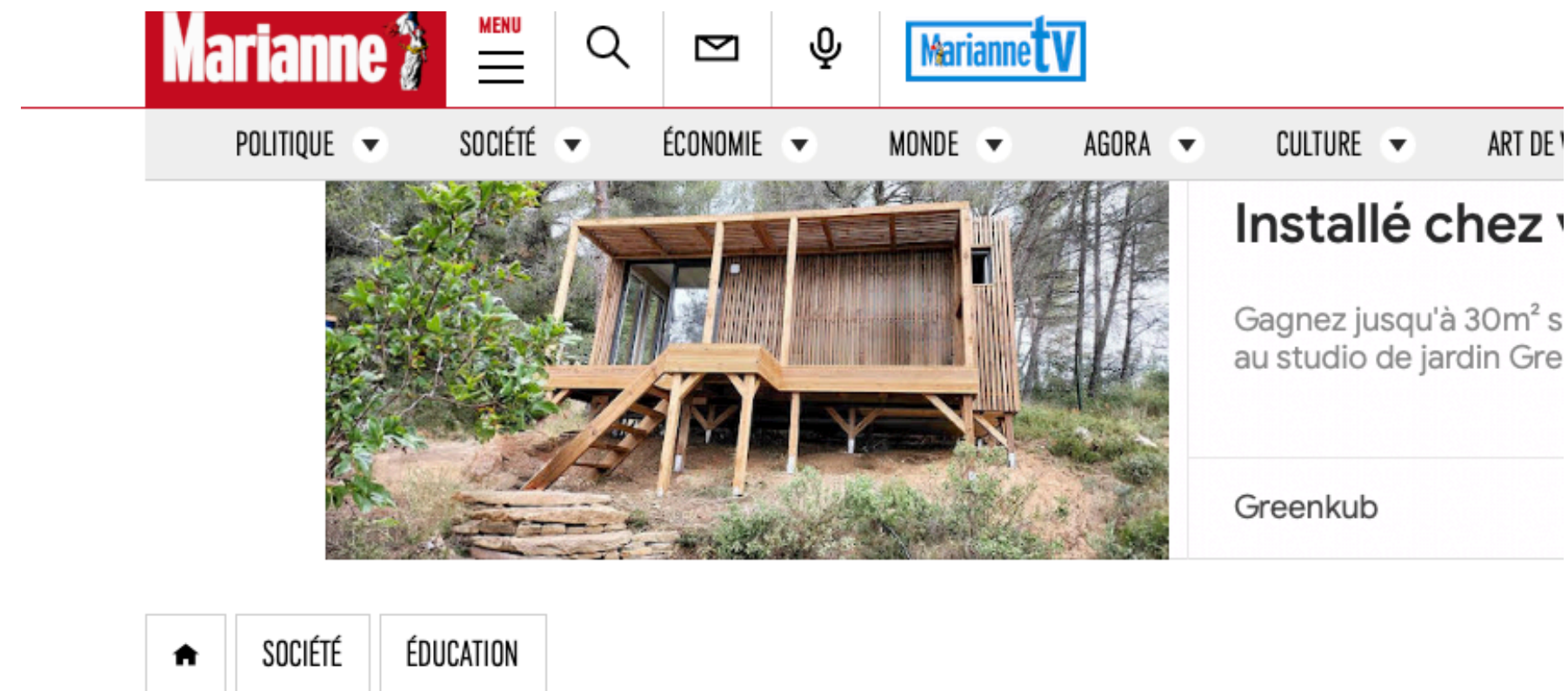Publié le 25/09/2022 à 10:08, mis à jour le 25/09/2022 à 19:44

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Le Centre hospitalier sud-francilien de Corbeil-Essonnes, victime d'une cyberattaque. *AFP*

https://www.lefigaro.fr/actualite-france/hopital-de-l-essonne-cyberattaque-les-hackers-ont-diffuse-des-donnees-20220925

Plantage

# Après un énorme bug de Parcoursup, délai rallongé pour compléter ses vœux

https://www.marianne.net/societe/education/apres-un-enorme-bug-de-parcoursup-delai-rallonge-pour-completer-ses-voux

The New York Times

Bitcoin Uses More Electricity Than Many Countries. How Is That Possible?

In **2009**, you could mine one Bitcoin using a setup like this in your living room.

Today, you'd need a room full of specialized machines, each costing thousands of dollars.

https://www.nytimes.com/interactive/2021/09/03/climate/bitcoin-carbon-footprint-electricity.html
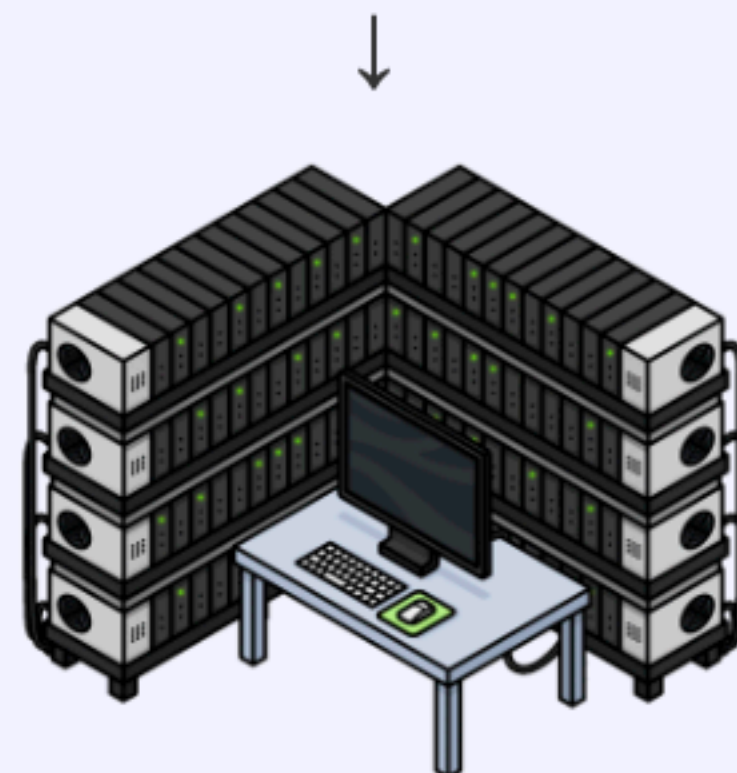
STEPS TO FOLLOW

- Gather information

- What was the problem?

- Who/What caused the problem?

- Who was impacted by the problem?

- How severe was the impact? (The *cost?)*

- Could the problem have been avoided?

- What should be done so that the problem doesn't happen again

Gather information

• As wide as possible

• Information needs to be structured/organised

• Is it directly concerned by the case?

• Is it a similar case?

• Does it add context to the case?

• Is it needed to answer the other questions (has it value in your analysis)?

• Can the sources (information) be trusted?

What was the problem?

- From the point of view of the users of the system

- What % of users did it impact?

- Did it result in something illegal occurring?

Who/What caused the problem?

A single person

A group of people

A company

The user(s)

Something out of control of the above?

Its not clear

What evidence exists to: ?

make an accusation

defend against an accusation

STEPS TO FOLLOW

Who was impacted by the problem? (1 person … the whole world?)

How severe was the impact? (The *cost?)*

Should/Could the problem have been avoided?

What should be done so that the problem doesn't happen again (The *cost*?)