

Semaine 7

Analyse de l'information

20180826_Ai-altered video makes it look like you can dance.pdf

Thème: Politique, Technologies

Can't pop-lock or Lindy Hop to save your life? Don't worry -- AI could soon make it look like you're a dance superstar. UC Berkeley researchers have developed a deep learning system that translates dance moves from a source video to less-than-experienced subjects.

Thème: Technologies

Just as it's no longer certain that a talking head in a video is authentic, you might not have guarantees that a person's body movements are real.

Thème: Manipulation de l'opinion

20180911_Beyond deep fakes Transforming video content into another videos style automatically.pdf

Because the data-driven method does not require human intervention, it can rapidly transform large amounts of video, making it a boon to movie production. It can also be used to convert black-and-white films to color and to create content for virtual reality experiences

"It was an eye opener to all of us in the field that such fakes would be created and have such an impact," he said. "Finding ways to detect them will be important moving forward."

A variant, called cycle-GAN, completes the loop, much like translating English speech into Spanish and then the Spanish back into English and then evaluating whether the twice-translated speech still makes sense. Using cycle-GAN to analyze the spatial characteristics of images has proven effective in transforming one image into the style of another.

20180619_The universe of people trying to deceive journalists keeps expanding and newsrooms aren't ready.pdf