Growth of Facial Recognition

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CS 4930 Privacy and Censorship

I asked Chat GPT for a topic and it brought up facial recognition which we recently (ish) discussed in my introduction of computer security class. My mom also got back from a cruise recently (again ish) and said how customs was using facial recognition to check against your passport and what not to allow you back into the country. Since the topic keeps coming up, I thought why not research for this paper.

Note: This is not a part of the paper but I thought it was interesting reason why I chose it so I included it. The paper actually begins on page 2. Thanks.

Growth of Facial Recognition

[The body of your paper uses a half-inch first line indent and is double-spaced. APA style provides for up to five heading levels, shown in the paragraphs that follow. Note that the word Introduction should not be used as an initial heading, as it’s assumed that your paper begins with an introduction.]

# Why and How Facial Recognition Works

[The first two heading levels get their own paragraph, as shown here. Headings 3, 4, and 5 are run-in headings used at the beginning of the paragraph.]

* What it is
  + Given an image, picture or video, a computer program can identify a person.
* How it works
  + Creates template of peoples facial structures using many known images
    - From social media, government IDs
    - Comparing to your template, computer can identify you
    - (hamann & smith, 2019)
  + Database with peoples templates to compare to

# Current Implementations of Facial Recognition

[The first two heading levels get their own paragraph, as shown here. Headings 3, 4, and 5 are run-in headings used at the beginning of the paragraph.]

* (Andrejevic & Selwyn, 2020) FRT in schools
* (Kosinski, 2021) FRT and predictability

# Potential issues with Facial Recognition

[The first two heading levels get their own paragraph, as shown here. Headings 3, 4, and 5 are run-in headings used at the beginning of the paragraph.]

* Crime fighting and misuse
  + (Lai & Rau, 2021)
  + (Smith & Miller, 2022)

Resources

Andrejevic, M., & Selwyn, N. (2020). Facial recognition technology in schools: Critical questions and concerns. *Learning, Media and Technology*, *45*(2), 115-128.

(<https://www.tandfonline.com/doi/full/10.1080/17439884.2020.1686014>)

Lai, X., & Rau, P. L. P. (2021). Has facial recognition technology been misused? A public perception model of facial recognition scenarios. *Computers in Human Behavior*, *124*, 106894.

(<https://www.sciencedirect.com/science/article/pii/S074756322100217X>)

Hamann, K., & Smith, R. (2019). Facial recognition technology: Where will it take us. *Crim. Just.*, *34*, 9.

(<https://heinonline.org/HOL/Page?handle=hein.journals/cjust34&div=6&g_sent=1&casa_token=&collection=journals>)

Smith, M., & Miller, S. (2022). The ethical application of biometric facial recognition technology. *Ai & Society*, 1-9.

(<https://link.springer.com/article/10.1007/s00146-021-01199-9>)

Kosinski, M. (2021). Facial recognition technology can expose political orientation from naturalistic facial images. *Scientific reports*, *11*(1), 100.

(<https://www.nature.com/articles/s41598-020-79310-1>)