

# User's Perceptions of Facial Recognition Use in the Wild

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## Motivations

### Related News



**In Hong Kong Protests, Faces Become Weapons**

<https://www.nytimes.com/2019/07/26/technology/hong-kong-protests-facial-recognition-surveillance.html>



**The Secretive Company That Might End Privacy as We Know It**

<https://www.nytimes.com/2020/01/18/technology/clearview-privacy-facial-recognition.html>

### Increase of Use



mobile devices



smart lock

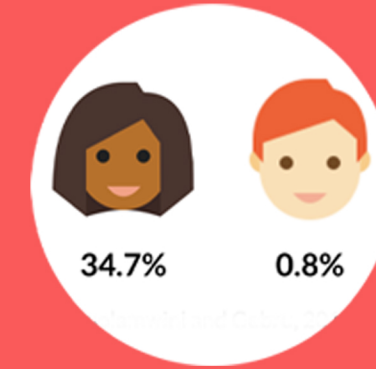


classroom



airport

### Concerns



racial/gender error bias  
[Buolamwini and Gebru, 2018]



data breaches



lack of legislation

## Research Questions

What are the users' perceptions of comfort and usefulness of FR technology in different scenarios?

What are the user's concerns about the use of FR technology in different scenarios?

## Methodology

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Amazon Mechanical Turk  
Vignette-based survey  
14 vignettes  
Random order

### Participants

314 participants  
age of 22 to 72 (average of 41)  
~80% white  
High school education or above

## Findings

### Users' Perceptions

Unclear understanding of FR use

Higher awareness of FR use in public

Distinct preferences for different contexts

Unclear on the uses and benefits of FR in many scenarios

### Users' Concerns

