

An Application of Neural Networks to Continuous Authentication

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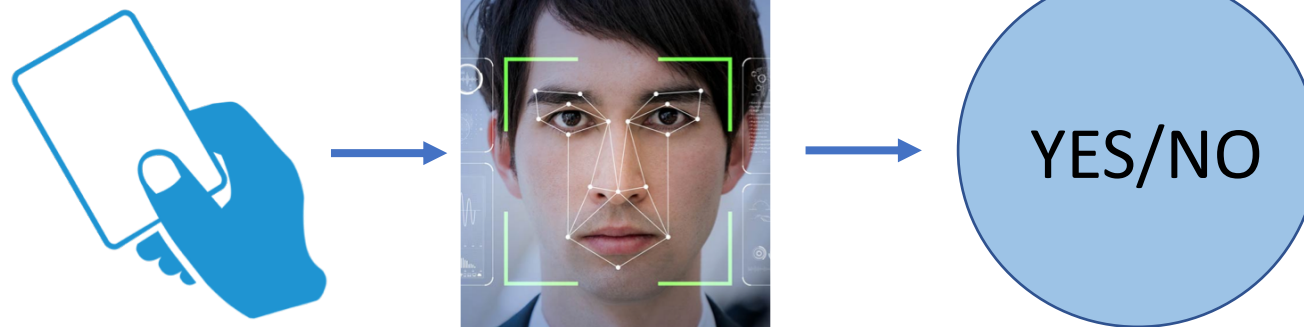
MAIN GOAL

Develop a proof-of-concept which continuously authenticates using facial recognition, powered by ANNs

Issues

- Must be both **secure** and **usable**
- Passive & Non-Obtrusive
- Maintain trade-offs between FARs and FRRs

My Solution



Threat Models

- **Lunchtime Attacks:** Unauthorized physical access to a workstation
- **Masquerade Attacks:** Unauthorized access by using correct access information

Why Neural Networks

- Can dynamically adjust to inconsistent inputs
- Work well with noisy data
- Well-suited for collective computations

Tools

