Face Recognition-Internet of Things Fused System for Criminal Recognition and Location Identification for West Africa

A presentation by Olamma Iheanetu @TNC19, Tallinn, Estonia on June 17, 2019
• Crime is a continuous problem

• Criminal at large is a threat to national security

• Location Identification, Recognition and Apprehension of criminal at large is a daunting task especially in geographically sparse communities
Methods of Identification

- Rewards system
- Fingerprint system
- Photographs – posters or pictures across town
- Detection – traffic stops, stop searches
Technological advancement
Emerging digitized / smart societies

Improve / Enforce a change in societal lifestyle
Leverage mostly on IoTs
AI Algorithms have been Applied -

- Predictive Policing systems (crime and victim prediction)
- Crime detection in real time
- Suitability of suspects for release on bail
- Monitoring individuals on terrorism watch lists
- Find missing persons
Face Recognition (Machine Learning)

Biometrics Face Recognition - How does it Work?

- Capturing
- Extracting
- Comparing
- Matching
Surveillance cameras provide real time feeds
- Facial recognition
- Object Identification (lost/stolen vehicles, etc)
Face Recognition-IOT Fused System

Gather Data

Store, Analyze

FR

Firebase Realtime Database

FR

Gather Data

Store, Analyze
The proposed solution should:

✓ Inform a rapid intervention/ response from the appropriate authority(ies)

✓ Provide leads to possible location of Identified wanted person(s)

✓ Ultimately facilitate possible apprehension of such persons
Olamma.iheanetu@covenantuniversity.edu.ng