

Next-Gen Face Comparison

Changing the Game: Hardening Soft Targets, Ethics and Privacy



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Very Powerful & Economical Tool to secure Soft-Targets: Air/Sea/Land Ports, Venues, ...

So What?
Who Cares?



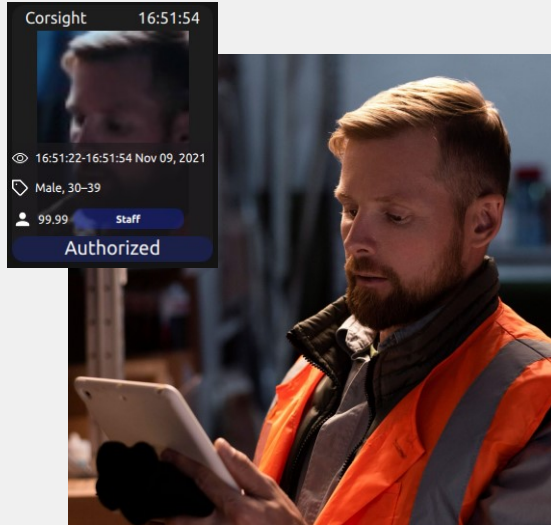
Problem



Solution



Results



Problem:

Unauthorized person breaches of restricted areas

Solution:

Face Comparison AI running on existing cameras

Results:

Alerts upon unauthorized entry

- Face comparison of authorized personnel (who have contractual agreement to biometric security).
- Operational Modes: Authorized/Watch Lists on Live or Forensic video and POI Image Match Engine.
- 99.6% accuracy in National Institute Standards & Technology (NIST) tests.
- AI augments current staff, enabling their independent verification.
- Technology Readiness Level (TRL): 9 (hundreds of deployments)
- Unmatched accuracy under challenging condition

USE CASES WITH NEXT-GEN PERFORMANCE



Italy Airport- Baggage Handling:
Restricted Area Secured



Israel Port- Vehicle Gates:
- At speed ID through windshield
- 20 > 1 minute delay Increases GDP



At-Speed ID + Screening
- Eg: Frequent travel lanes



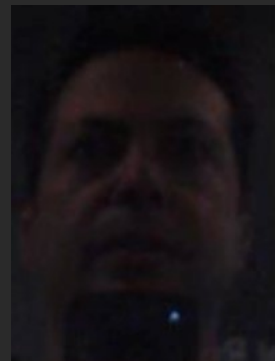
Ofer Ronen

Watermark



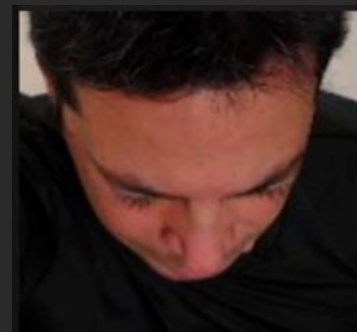
Ofer Ronen

Outdated



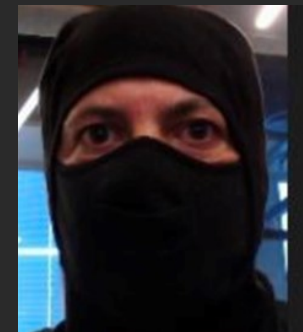
Ofer Ronen

Low Light



Ofer Ronen

Angles



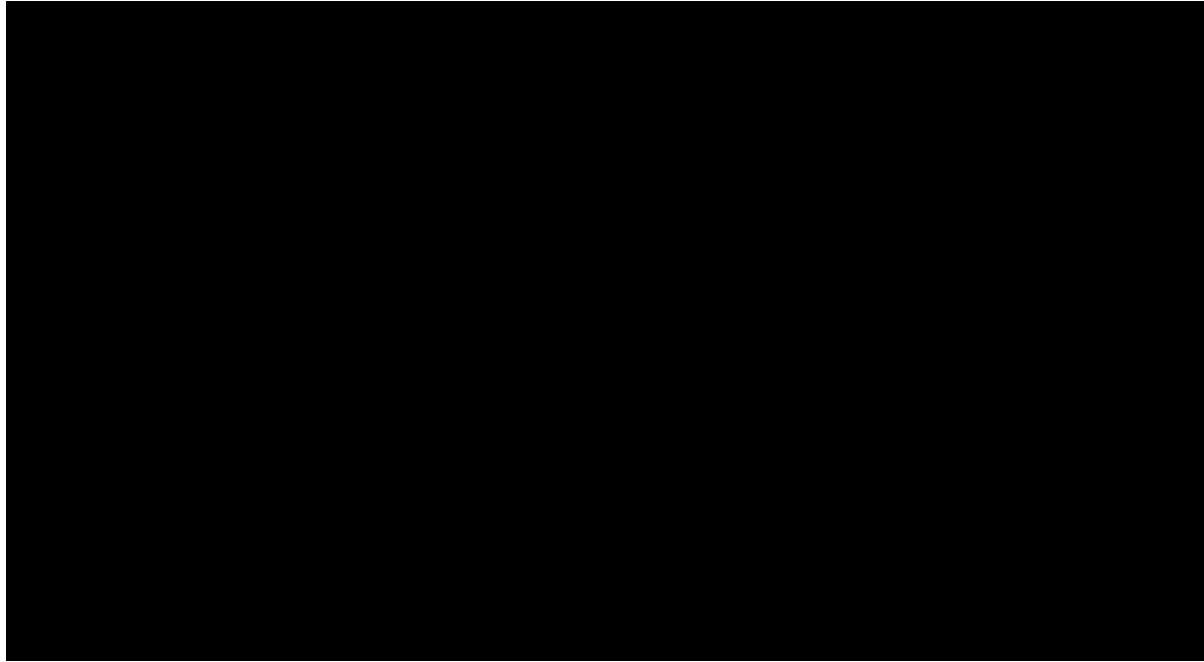
Ofer Ronen

Occlusions

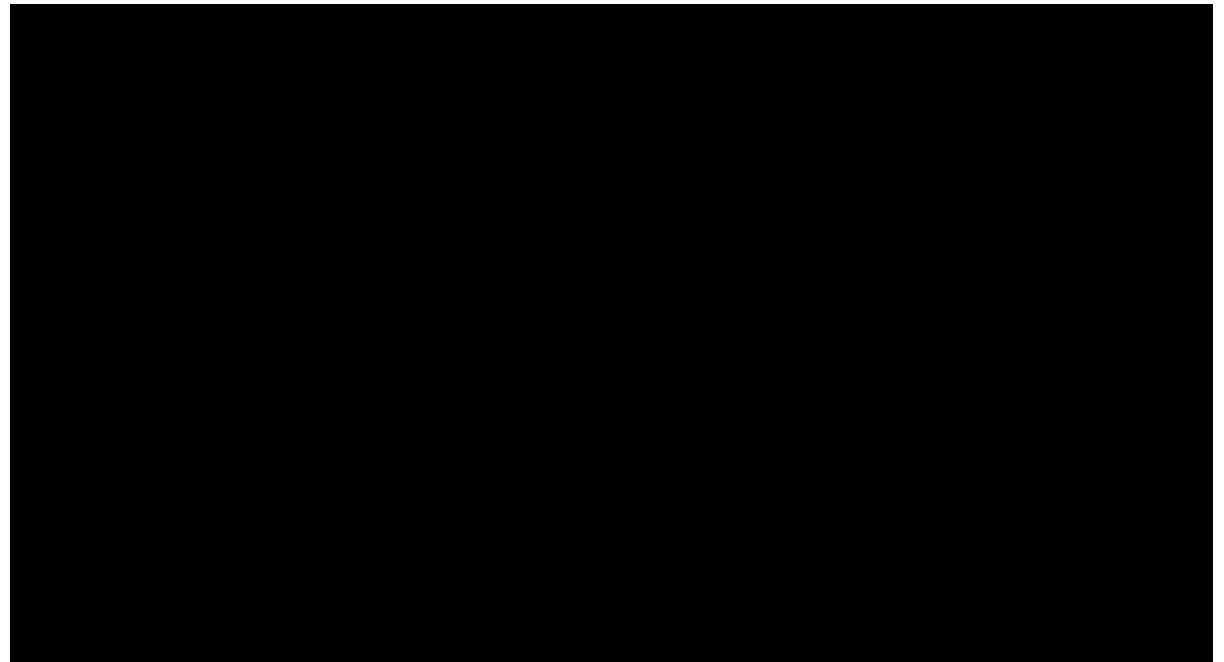


Videos

Concealments

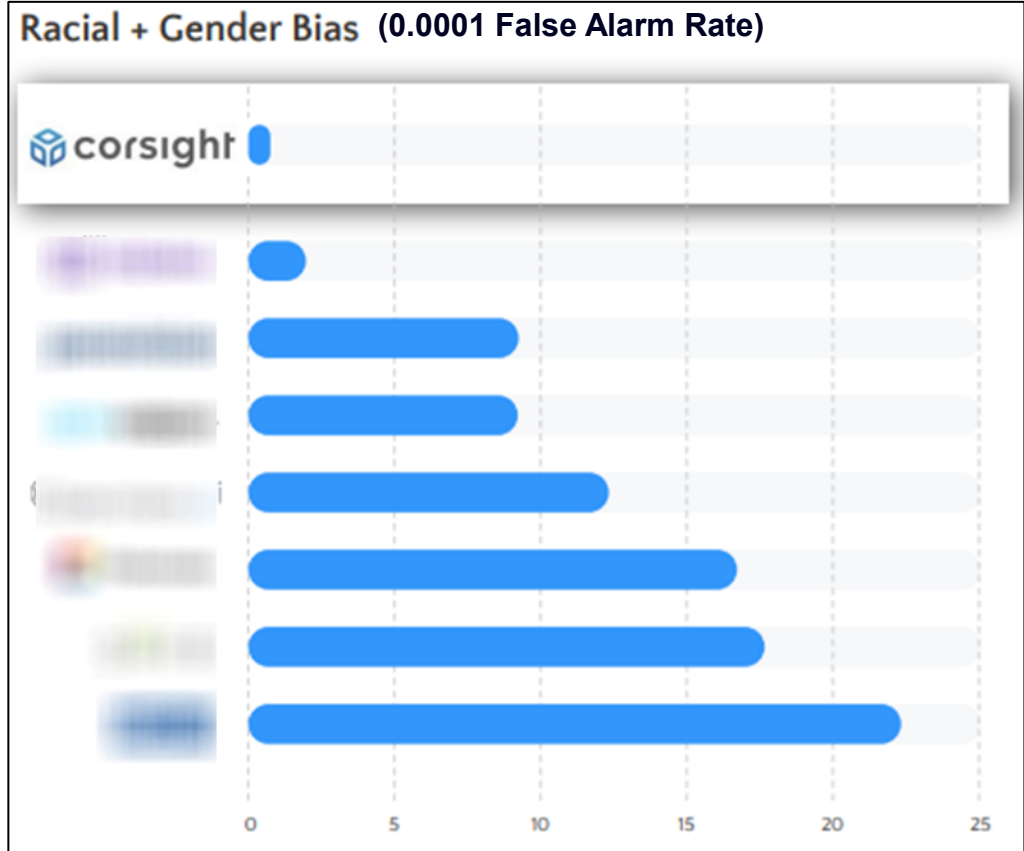
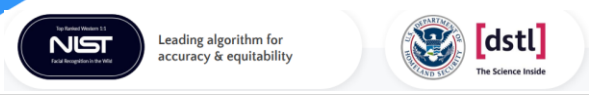


Real-World Angles



Privacy & Ethics

- **GDPR is a Good Thing- Protecting our Personal Data**
 - But it's clouded with Fear, Uncertainty & Doubt
- We must think through use and deployment:
 - Documenting, Implementing, Training & Monitoring



Corsight Next-Gen Performance Achieved NIST Industry Standard:

- Corsight Racial and Gender Bias is the standard against which NIST measures all other vendors.
- Third and fourth ranked vendors mis-identify black females as opposed to white males 9 times more than Corsight.

Former UK CCTV Regulator heads Corsight Privacy & Ethics as CPO:

- Leads ethics board that rejects unethical use-cases, entities & states.
- Integrated forward-looking GDPR "Secure by Design & Default".
- Implemented flexible Retention & Redaction policies.
- Advises US General Accountability Office.

Face Comparison is an incredibly powerful tool that requires we ensure moral & ethical use.

Image Sources

Slide 1:

- Face Comparison image: Dave Klepp / Corsight Fortify

Slide 2:

- Worker: Envato elements

Slide 3:

- Bag Handling: Envato elements
- Truck: Corsight
- Motorcycle: [Ronen Topelberg](#) / Ofer Ronen
- Face Comparison images: Ofer Ronen / Corsight Fortify

Slide 4:

- Chart: NIST

Slide 5:

- Videos: Corsight

