### Building Safe and Secure Communities through Real-Time Edge Video Analytics Hamed Tabkhi, University of North Carolina at Charlotte Award Type: IRG, [1831795]

## Project Challenge

- Addressing diverse community safety concerns with tech solutions.
- Creating privacy-focused Smart Video Surveillance (SVS).
- Overcoming real-world application challenges for lab algorithms.

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### Major Outcome/Progress

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- Community Engagement: Conducted Community with Survey respondents
- App and Community-in-the-Loop:
- Created a privacy-focused app for realtime community engagement.
- Testbeds and System: Optimized the end-to-end system across diverse realworld testbeds.
- Anomaly Detection: cutting-edge ML models.



+400

Implemented

- lowers false alarms.



# Broader Impact

Develop privacy-centric, reliable technology to boost public safety. Aim to lower crime rates and reduce policecitizen unnecessary interactions. Alleviate tensions between law enforcement and communities.





• Accelerating technology and product commercialization.



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