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Areas of research/expertise

Sensor and Information Fusion

- Processing, detection, and classification using multi-modal sensors
- Algorithm development for feature- and decision-level fusion

Signal Processing

- Spatiotemporal array processing of wideband radar
- Simultaneous transmit / receive radar arrays

UAV Sensing

- Multi-modal localization
- Multistatic radar processing



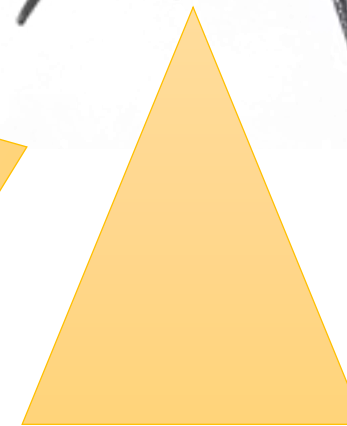
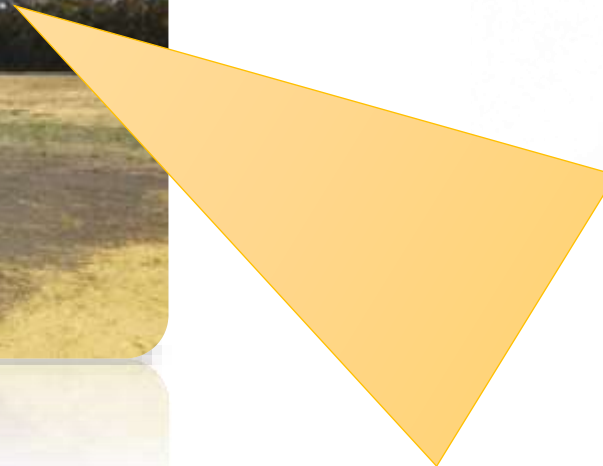
Multi-Modal Explosive Hazard Detection (U.S. Army)

- Combining multi-band ground penetrating radar, thermal- and visible-spectrum cameras, and LIDAR
- Developing detection and classification algorithms for high probability of detection and low false-alarm rate



Multistatic Array Processing From UAVs (U.S. Army, Akela, Inc.)

- High accuracy sensor-fused localization of UAV radar arrays
- Multistatic radar processing of cooperative ground vehicle and UAV arrays



Heterogeneous Intelligent Sensing

