



## TECHNOLOGY

# Compressive Radar Imaging Technology

## OVERVIEW

The military utilizes the mapping of targets and terrain to provide much needed information for its field operations. Synthetic Aperture Radar (SAR) has been used in this capacity to provide a quality map for these operations.

Researchers in the Department of Electrical and Computer Engineering at the University of Maryland–College Park have created an improved “Compressive Radar imaging Technology” that provides a higher resolution map of targets and terrain while reducing the needed number of transmitted and/or received waveforms to process the map. Antenna size is reduced, no new hardware is needed to incorporate this imaging technique, and the new imaging scheme allows the aperture to be compressed.

## APPLICATIONS

Two dimensional high resolution mapping of targets and terrain

## ADVANTAGES

Strong resistance to countermeasures and interception

Reduced antenna size

Can be used with existing hardware

## CONTACT INFO

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## Additional Information

### INSTITUTION

University of Maryland, College Park

### PATENT STATUS

Patent(s) pending

### LICENSE STATUS

Available for exclusive or non-exclusive license

### CATEGORIES

- Software + Algorithm
- Aerospace

- Engineering

## **EXTERNAL RESOURCES**

- [US Patent 9,291,711](#)

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