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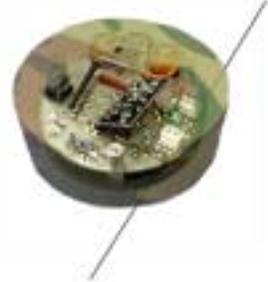
Hybrid Radar-Magnetic Through The Wall Surveillance System

Project Description:

The National Institute of Justice is sponsoring British Aerospace (BAE) to develop Through-the-Wall Surveillance technology. The BAE approach fuses radar and magnetometer data, to locate and identify individuals, as well as metal objects, such as weapons. This effort builds on work done for the Defense Advanced Research Projects Agency (DARPA) by Lockheed Martin Sanders under its “Handheld Synthetic Aperture Radar (HHSAR)” and “Micro Moving Target Remote Sensor (MMTRS)” programs. Radar-based approaches cannot locate individuals through metal walls. A magnetometer offers a potential solution to this problem.



Prototype Sensors



Status:

This project was initiated in August 2001. BAE’s efforts include investigating a covert magnetic tagging system for differentiating friend from foe. Other research includes assessment of the utility of the magnetic sensor as a stand-off weapons detector.

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