

Multi-Sensor Data Collection and Processing

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ABSTRACT:

The multitude of signatures and signals on the modern battlefield can be measured more quickly and more accurately with modern sensors than human perception. Certain signals, such as infrared, low and high frequency acoustics, and seismic signals, cannot even be detected by human preceptors. These signals are of particular interest to the Army because those signals can reveal tremendous amounts of information. ARL had been developing a multimodal sensor, which incorporated infrared, acoustic, and seismic, and this sensor is integrated into a series of systems ultimately ending with the Army-wide FBCB2. The first two weeks of the AIAD were spent learning and understanding the signals and the corresponding hardware. The last week, the cadets performed a sort of field test of the Multi-modal sensor system, including the trip-wire cameras and blue radios.

KEYWORDS: Multi-modal sensor, sensor array

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