



Department of the Air Force  
Scientific Advisory Board

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**Automatic Target Recognition (Quick Look)**

**Abstract**

Automatic Target Recognition (ATR) is a sub-element of a larger class of problems known collectively as Target Identification. There are a number of sub-disciplines within Target Identification that include elements of ATR. Some are based on one-dimensional signal processing (e.g., high range-resolution radar), some are based on multi-dimensional and perhaps multi-sensor data fusion, and some are based on behavioral or dynamic response characteristics.

Furthermore, some are based on exploitation of two-dimensional imagery such as electro-optical (EO), infrared (IR), and synthetic aperture radar (SAR).