

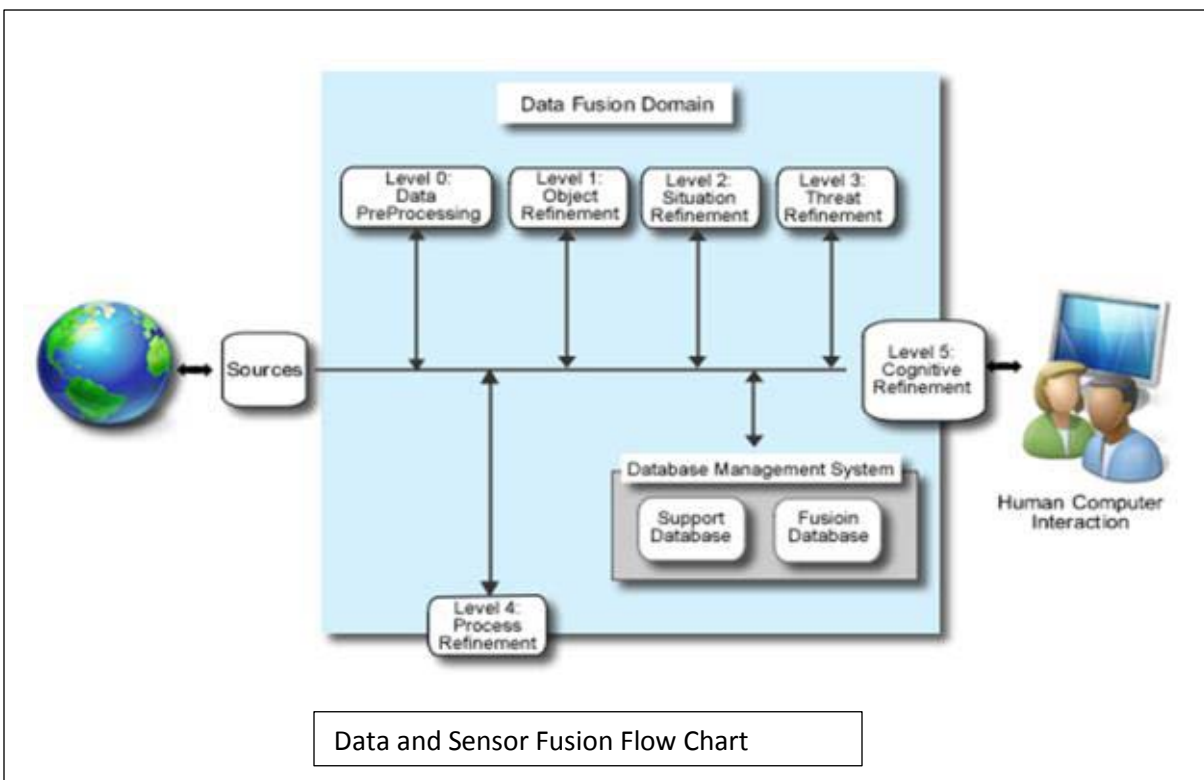
Title of Project: Multi-Sensor Fusion for Improving Threat Assessment in Complex Electronic Warfare Environments (*Proposed to Applied Research Institute –ARI*)

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Area: 3D modeling and Image/Sensor Fusion

Brief Description: Sensors are generating an accelerating avalanche of data, driven both by their increasing pervasiveness in many applications and their ever-increasing sampling rates, sensitivity, range, and capabilities. This leads to challenges related to normalizing data collected in different formats and at different time intervals, processing data in an energy- and time-efficient manner, and effectively synthesizing it into meaningful, actionable information for human or autonomous operators.

Over a two-year period of research, we will pursue four distinct areas, culminating in preliminary results which will be used to pursue further funding for sensor fusion. The four areas are: (1) investigating multiple artificial intelligence algorithms applied to multi-sensor fusion, (2) developing a virtual test environment for comparing sensor fusion results, (3) investigating cyber security for sensor networks, and (4) developing of the interfaces for the warfighter, providing human input to the complex multi-sensor environment.



Link: TBD