

## Knowledge Discovery



Data Systems Sciences  
& Engineering Group

DSSE

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### Within the Data System Sciences and Engineering Group

The Data System Sciences & Engineering Group (DSSE) researches and applies methods to efficiently provide comprehensive, accurate, verified, validated, and easily understood information to support situational awareness and informed decision-making.

To accomplish this mission DSSE is performing research in:

**Data Systems Architectures for National Security:** DSSE provides research into emerging data architectures and processing methods for scientific, defense, and security applications with special requirements for linking real-time systems and heterogeneous databases. DSSE has cultivated long-term relationships with a variety of sponsors across the military, intelligence community, and other federal agencies resulting in leading-edge data systems architectures research and development to increase national security

**Risk Analysis:** DSSE has extensive experience in the discipline of risk analysis. DSSE has created processes to identify and reduce munitions related risk by integrating risk management policies into the planning process. DSSE has also developed systems to quantify risk posed by chemical facility operations.

**Sensor Networks:** DSSE has a long and distinguished history of sensor network research projects and collaborations. For example, DSSE is experienced in combining off-the-shelf sensor technology with custom developed software to provide real-time asset visibility and tracking for an intelligence agency sponsor.

**Content Delivery:** DSSE researches techniques to manage, analyze, and deliver operational content to support informed decision making. DSSE developed and operates a Knowledge Center in support of a major U.S. regulatory initiative.

**Quality Assurance:** DSSE conducts research and develops advanced systems to perform automated Quality Assurance (QA). DSSE QA systems utilize advanced techniques to identify, document, log, and, as applicable, correct erroneous data, while preserving historical data records.

These applied capabilities represent an extremely versatile resource for a broad range of R&D, industrial, homeland defense, and military applications. We welcome the opportunity to discuss your potential applications and ways we can contribute to a solution.

*Point of Contact:*

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