2005 SLIS Doctoral Research Forum: Poster Abstract

Proposed Project: Applying Classification-based Search and Knowledge Discovery (CSKD) Methodology to Command, Control, & Combat Systems (C2CS)

Submitted by Kathryn Clodfelter and Nicolas George

The WIDIT Laboratory submitted a proposal to the Office of Naval Research (ONR) to address the problems of information integration and overload for the warfighter. Our proposed solution, entitled CSKD-C2CS, involves applying the current Classification-based Search and Knowledge Discovery (CSKD) approach to the military context – specifically for Command, Control, & and Combat Systems (C2CS).

The CSKD methodology combines information organization and information retrieval approaches and involves content indexing, metadata scheme construction, and metadata indexing to build a knowledge representation and organization architecture. This architecture will serve as the foundation for the Fusion Inference Engine (FIE), which includes modules for entity identification, situation assessment, threat and opportunity assessment, and decision making support. The CSKD-C2CS approach will then be applied to construct a prototype system that extends the capabilities of the existing Modular Mission Payload Controller application developed by Crane Naval Surface Warfare Center.