

AFRL FY16 Research Topic Template – DAGSI – AFIT - USAFA

1. **Research Title:** Human Machine Teaming for Intel Analysis in Contested Environments

2. **Individual Sponsor:**

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3. **Academic Area/Field and Education Level:** Cognitive Systems Engineering, Human Factors, Cognitive Psychology, Visual Analytics, Cognitive Science, Computer Science (BS/BA acceptable, MS or PhD preferred)

4. **Objectives:** Explore specific instances of adapting advanced analytics capabilities to team with intelligence analysts in support of ISR operations in contested environments, including envisioning, designing, building, and evaluating concepts as appropriate.

5. **Description:** As U.S. Air Force intelligence components are increasingly shifting focus from supporting tactical missions in permissive airspaces toward enabling more strategic operations in contested environments. There is a growing need to adapt existing technologies and capabilities to this new mission set. At the same time, coping with the need to perform information analysis under data overload conditions will require analysts to team with advanced analytics and automation to achieve success. Research on this topic will investigate empirically derived predictions for enabling joint human and automation analytical sensemaking under data overload.

6. **Research Classification/Restrictions:** Unlimited public release.

7. **Eligible Research Institutions:** Indicate to what organizations this topic should be provided. Check all that apply.

DAGSI

AFIT (only)

USAFA (only)

If you are submitting a topic for the USAFA, please indicate if you are also interested in sponsoring a USAF Cadet in summer of 2014 (Avg Cost for USAF Cadet for 33 days was \$5000)

Yes No

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