- Organization(s): Haystax Technology
- Lead Investigator: Robert C. Schrag, Ph.D.
- Current Team Members: (Open)

Research Areas

Research Areas

[Processing Events in Probabilistic Risk Assessment](#) (STIDS 2014)

- Large-scale risk model development: [Qualitative Bayesian network specification](#). Our model "Carbon" is...
  - Domain expert-accessible (with GUI support)
  - Based on Adjudicative Guidelines and Desk Reference
  - Comprehensive: 100s of random variables
  - Focusing: adjudicators/investigators see highest-impact cases.
- Holistic coarse-to-fine (public records-to-computer network logs) event processing with...
  - Coarse-to-fine temporal relevance accounting
  - Event impact assessment over arbitrary time scales

Unique Qualifications

Carbon model is...

- Deployed in the US Army's Person-event Data Environment (PDE), applied to broad enterprise data

- Entering its 3rd major US Army development contract

- The IC-leading algorithmic solution for <u>continuous evaluation</u> of trusted staff security clearance-worthiness.

Haystax has...

- Person-centuries of model-based risk assessment experience.

Teaming Objectives

- Complementary skillsets (Track 1):
    - Learning / validating models from data
    - Extracting, into a formal ontology, actionable events from unstructured text and computer network logs
    - Threat process psycho-social modeling
    - Threats beyond information disclosure, IT system exploitation

Contact Information

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