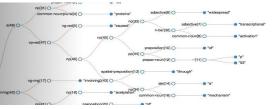


Smart Information Flow Technologies, LLC www.sift.net

- ~50 person small business, focus on Consulting Research & Development
- **20+ years in business:** 40+ advanced degrees, 175+ years industrial R&D experience
- Expertise, spanning:
 - Computer Science and Artificial Intelligence,
 - NLP, Linguistics, and Text Analysis,
 - Human-centered systems,
 - Social sciences, Neuropsychology, and beyond.
- Work with government, industry and academia for decades
 - AFRL, ASU, BBN, BAE, CMU, Cornell, GMU, DARPA,
 DIA, DTRA, Honeywell, IARPA, Lockheed, MIT, NASA, NIH, NIST, ONR, Oxford, Stanford, UCB, UMd, UMn, USAF, USC, US Army, US Navy, VA

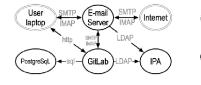


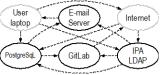
Natural Language Reading and Assembly via Semantic Knowledge Graphs for Understanding and Argumentation



Major Relevance to IARPA ReSCIND

- **Theory based Computational tools** applied solid psychological and social theory to build non-intrusive sensors of individuals and teams, applicable to sensing opponents intent from actions.
- Al Planning and Plan Recognition Analyzing attacker actions in a network and determining likely goals. Also robot assistants that watch human performers and attempt to assist the human without human direction.
- Inferring Real World Attributes of Attackers A stimulus response loop that attempts to determine the culture of the actor, useful in customizing deception strategies
- NLP and Symbolic Reasoning read academic papers and extract evidence, and identify new contributions. Symbolic reasoning over semantic knowledge graphs.
- Educational Interactions change biases through educational interactions
- **Computer security experience.** Looking at the network as whole and automatically removing unneeded functionality. Decades of secure system design.





Communication Requirements Graph C

Corresponding Denied Graph D

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