Institution, Lead, Current Team
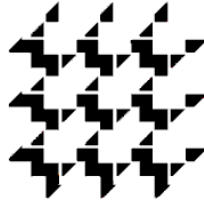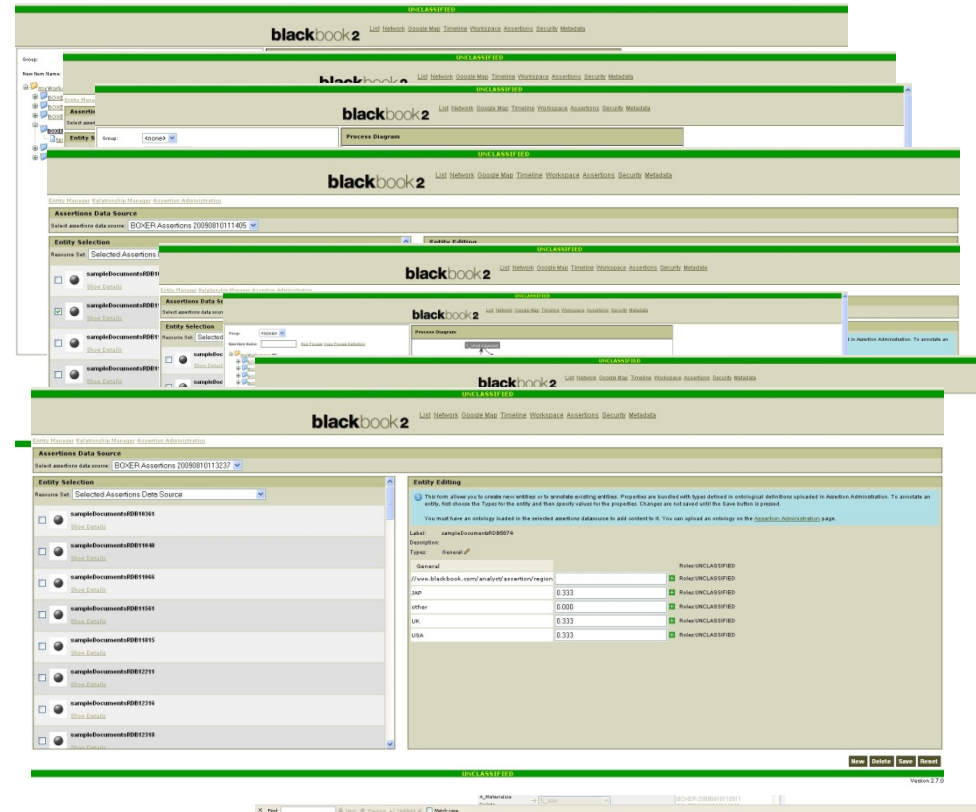
![Rutgers - The State University of New Jersey logo]

- Rutgers University - DIMACS; Paul Kantor **R** Analytical Systems
- Current Team Members
  - Fred Roberts, **R**; Decision theory, social and behavioral models,
  - Tong Zhang; **R** Semisupervised Learning and domain transfer
  - William Pottenger; **R** statistical relational learning; sense-making
  - David Lewis; **C**; Active and semi-supervised learning
  - Vladimir Menkov; **C**; Lead Programmer
  - David Madigan; Columbia U; Large scale predictive modeling;
  - Paul Raff, **R** Computer reasoning; Blackbook
  - Tina Eliassi-Rad,**R*** Data mining in dynamic graphs
  - Alex Borgida, **R** Ontology, fundamental theory…..
  - ….and others available

R=Rutgers; *****=Visiting; **C**=consultant

DIMACS

Center for Discrete Mathematics & Theoretical Computer Science
Founded as a National Science Foundation Science and
Technology Center

research areas of interest

- Expertise in:
  - social and decision models
  - machine learning,
  - text classification,
  - ontology,
  - graphical analysis; inference
  - from graphs
  - validation and testing

- 8 years experience in the IC environment, with substantial resources via DHS
  - KDD projects on Bayesian methods for message streams
  - DHS Centers: DYnamic Data Analysis; Command Control and Information Advanced Data Analysis

THE HOMELAND SECURITY CENTER FOR DYNAMIC DATA ANALYSIS

- Software: open source: BOXER;
  - binary (two classes) and polyt... eXtensible logistic regression;
  - BOXER is extensible; only hard...
  - Users can add new concept gro...
  - BOXER can capture each analy...
  - In a standard and extensible fo...
  - Supports methods for model a...
  - Using bodies of relevant materials to infer concept maps

- Brainware:
  - Strong theoretical skills
  - We are an experienced team working together since 2002 with significant achievements in relevant challenges
  - Knowhow for linking to the Blackbook vector

- We are interested in talking with potential lead partners with established expertise in efficient and flexible development of systems that can realize the algorithmic concepts that we develop

- We prefer close-linked collaboration, as distinguished from "arms-length", "rigid specification driven" working relationship

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