

Notes from Session 2

Keynotes

There were the following comments on Prof. Carley's keynote:

- Fuzzy grouping utility does not scale well.
- "Courses of action" are limited to removal of an individual and the affect that removal will have on information diffusion and overall network "performance".
- Models for simulated agent interaction are based on multiple machine learning algorithms from economics, social science and psychology.

There were the following comments on Col. (Ret'd) Alward's keynote:

- Current networks are not tied in via reference to operations, geographical locations, etc.
- The R&D community needs to tie itself closely to the operations community by delivering useful tools quickly.

In the plenary discussion on the keynotes there were the following comments:

- Network technology allows the commander to centralize command and control but this goes against the concept of decentralized elements that carry out operations.
- It is doctrine that will keep the joint chiefs out of the commander's backyard.
- Prof. Carley is not satisfied with the visualization capability for use in networks of over 50 nodes.
- Monte Carlo simulation is used in the CMU application to get an average performance measure for removal of an individual from the network.
- Prof. Carley suggests using both text mining and more structured data sources to get the best network information.
- It takes longer to extract information from your sources into a database than to analyze or run simulations on a given database of network information.
- Most network information sets do not take time into account.
- Commanders want an 80% solution NOW, not a 110% solution later.
- If you can run agents on your servers then you can capture the relationship between operational use and the physical network. But agents are not usually allowed on the network.

