

NISS EXPLORATION WORKSHOP on AGENT-BASED MODELING

Commonalities in Unconnected Problems - Applications Driving Theory

November 20-21, 2008 in Research Triangle Park, NC

AGENDA

Thursday, November 20, 2008

- 8:30 Registration and Continental Breakfast
- 8:45 Welcome
- 9:00 Keynote Address Ben Klemens
- 9:45 Formulating the Mathematics David Wagner
Agent-based models and interacting particle systems
- 10:30 Break
- 11:00 Defense Simulations Thomas Lucas and Susan Sanchez
Agent-based Models in the Department of Defense: Motivation, History, and Applications
- 11:45 Sociological Modeling James Moody
Simulating Social Networks: Agent based models in Sociology
- 12:30 Lunch
- 1:30 Crime Mapping Elizabeth Groff
Agent-based Models in Criminology and Criminal Justice
- 2:00 Human Behavior Yasmin Said
- 2:30 Epidemic Modeling Nick Hengartner
- 3:00 Break
- 3:30 Underlying Structures for Epidemic Models Georgiy Bobashev
A Hybrid Epidemic Model: Combining the Advantages of Agent-based and Equation-based Approaches
- 4:00 Uncertainties in Networks Susie Bayarri
Managing uncertainties in traffic networks
- 4:30 TBA Vanja Dukic
- 5:00 Discussion of Friday's Agenda
- 5:15 Adjourn

Friday, November 21, 2008

8:30 Continental Breakfast

9:00 Synthesis and Panel Discussion

Panelist #1 - Ed Wegman

Panelist #2 - Doug Kelly

Panelist #3 - David Banks

Panelist #4 - Leticia Cuellar

10:00 Charge to Writing Groups (#1=Overview, #2=#4=Focused Problem Areas)

10:15 Break

10:30 White Paper Writing Groups

12:30 Lunch

2:30 White Paper Writing Groups

3:00 Break

3:30 Group Progress Presentations

4:30 Adjourn