

KSCO-2009 Program

Tuesday, 31 March 2009

- 8:00 Registration (Business Centre Reception)
- 9:00 Welcome and Introduction – Jitu Patel, James Lawton
- 9:10 **KSCO Overview** – Austin Tate
- 9:30 **Invited Keynote Talk 1 – Major Mark Nooney**
Title: *Experiences of Combat Operations in Afghanistan*
- 10:30 Break
- 10:45 **Paper Session 1: Collaboration Technology**
- Niranjan Suri, Andrzej Uszok, Jeffrey Bradshaw, Maggie Breedy, Marco Carvalho, James Hanna, Robert Hillman, Tim Hutcheson, Massimiliano Marcon, and Asher Sinclair.
Supporting Federated Information Spaces with the Joint Battlespace Infosphere (JBI) Platform
 - Austin Tate, Jeff Dalton and Stephen Potter.
I-Room: a Virtual Space for Emergency Response for the Multinational Planning Augmentation Team
 - Abdeslem Boukhtouta.
A Framework For Resource Visibility
- 12:15 Lunch (Manor House Restaurant)
- 13:30 **Paper Session 2 – Planning 1**
- Gerhard Wickler, Antonin Komenda, Michal Pechoucek, Austin Tate and Jiri Vokrinek.
Multi-Agent Planning with Decommittment
 - Kyle Usbeck, William C. Regli, Gerhard Wickler and Austin Tate.
Finding Dominant Plans Using Plan Evaluation Criteria
 - Antonín Komenda, Jirí Vokřínek, Michal Pechoucek, Gerhard Wickler, Jeff Dalton and Austin Tate.
I-Globe: Distributed Planning and Coordination of Team-oriented Activities
- 15:00 Break
- 15:30 **Panel Session 1**
Topic: **Just in Time Training for Coalition Operations**
- 17:30 Wrap-up
- 18:00 Pre-Dinner Drinks (Main Hall & Lounge Bar)
- 19:00 Conference Dinner

Wednesday, 1 April 2009

8:00 Registration (Business Centre Reception)

9:00 **Invited Keynote Talk 2 – Dr. Jeff Bradshaw**
Title: *Policy-Governed Information Exchange
in an Army Operational Scenario*

10:00 Break

10:30 **Paper Session 3 – Understanding and Trust**

- Paul Smart, David Mott, Katia Sycara, Dave Braines, Michael Strub and Dave Sloggett.
Shared Understanding within Military Coalitions: A Definition and Review of Research Challenges
- Paul Smart, Shao Fen Liang, Chris Booth, Alistair Russell, Neil Briscoombe, Andrew Rankin and Nigel Shadbolt.
Using Semantic Technologies to Improve Information Exploitation in Military and Civilian Application Contexts
- Trung Dong Huynh.
Automating Trust Evaluation

12:00 Lunch (Hilaire Belloc Room) / Demos

13:30 **Paper Session 4 – Planning 2**

- Michael Dorneich, David Mott, Jitu Patel & Ed Gentle.
Using a Structured Plan Representation to Support Multilevel Planning
- Jeremy Bryans, John S. Fitzgerald and David Greathead.
A Proposal for a Verifiable Dynamic Coalition
- Gennady Staskevich and Joseph Carozzoni.
Semantic Adaptation AGENTS (SAAGE)

15:00 Break

15:30 **Panel Session 2**
Topic: **The Network as an Enabler for Coalition Operations**

17:30 Wrap-up

KSCO Keynote Presentations

Experiences of Combat Operations in Afghanistan

Major Mark Nooney, Dstl

Major Mark Nooney has recently returned from a short tour in Helmand Province, Afghanistan. His role was to mentor the Afghan National Army at operational and tactical levels. The deployment also involved extensive contact with US and other coalition partners. For a short period Mark was directly responsible for coordination between US, Canadian, British and Afghan units deployed on a complex clearance operation. The presentation will describe some of his experiences of coalition working in combat operations in Afghanistan.

Policy-Governed Information Exchange in an Army Operational Scenario

Dr. Jeff Bradshaw, Institute for Human and Machine Cognition (IHMC)

Researchers at IHMC are investigating how emerging policy and semantic web technologies can be used to help provide the best set of available tactical information to the soldier in the field. In this initial effort, we have developed a system that demonstrates the potential of these technologies in a small-scale U.S. Army mockup scenario. The system represents and reasons about domain-specific policies to help recognize what documents the end soldier is allowed to receive given the current mission context. The system also relies on policies to help recognize when appropriate human approval can be obtained or a specific transformation of the information can be performed to allow the information to be sent. Semantic web technologies are further used to describe the properties and features of each document and relate these features to mission contexts in which the information is likely to be appropriate. The result is a compelling demonstration of the role that policies and semantic web technologies can play in promoting the Army's need to share information while remaining vigilant of the requirements to protect methods and sources.

KSCO Panel Session 1

Just in Time Training for Coalition Operations

Participants:

Chair: Paul Losiewicz – ONRG
Alenka Brown – OSD-AT&L
Eric Hamilton – Pepperdine Univ
Leah Wong – SPAWAR Pacific
Hannu Kangassalo – University of Tampere, Finland

Description: A panel discussion of how to go beyond conventional e-Learning by use of new mobile computing technologies, cognitive models, language tools, and Social and Cultural modelling for the purpose of setting up, training, and operating ad hoc coalitions, e.g. NATO and UN operations, Disaster Response Teams, and Operations Other than War.

KSCO Panel Session 2

The Network as an Enabler for Coalition Operations

Participants:

Chair: Michael Strub – ARL @ dstl
Katia Sycara – CMU
Steve Poltrock – Boeing
Ray McGowan – US Army CRDEC
Alex Rogers – University of Southampton
Graham Bent – IBM

Description: The DoD and MoD are investing heavily in network science research with the conviction that more rapid, accurate, and complete communication of the right information to the right people at the right time will be a force multiplier and enhance force protection. With most instances of future combat viewed as coalition operations, the panel members will describe their current research in terms of opportunities for influencing coalition planning and execution.