

Caltech, October 28, 2008

## Objectives:

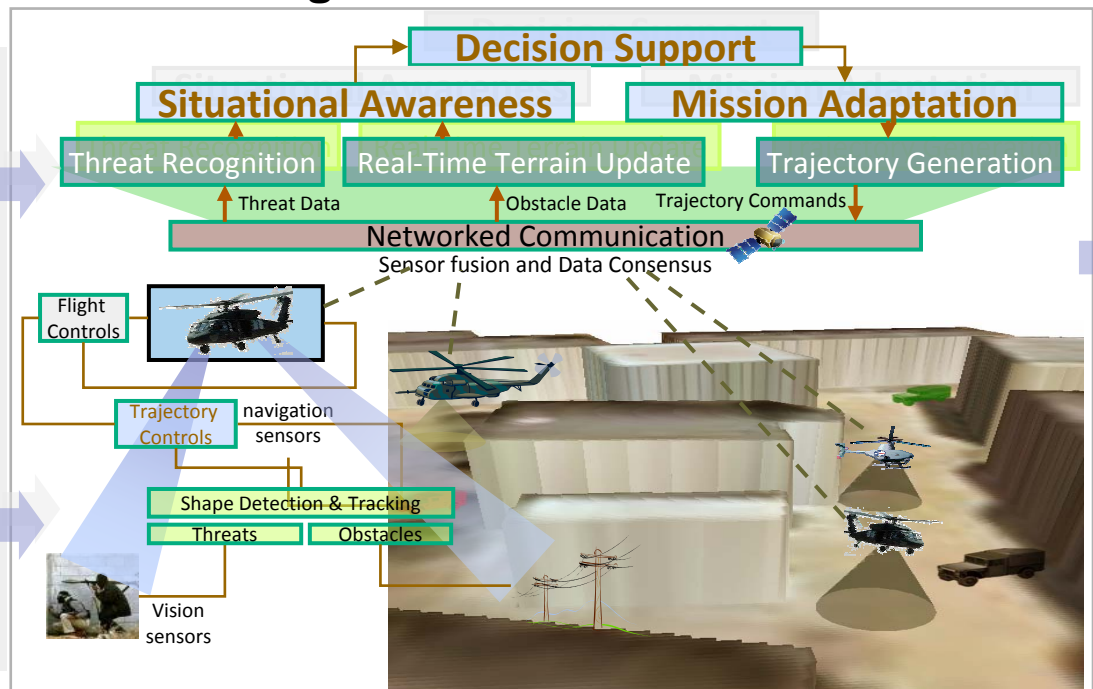
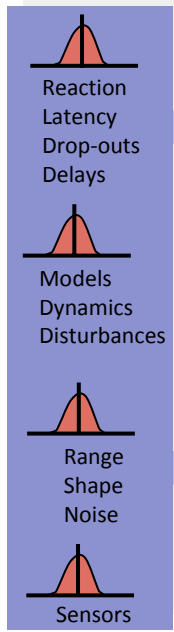
- Define Challenge Problems in the areas of
  - Sensor fusion with vision and non-vision sensors
  - Real time pop-up threat and obstacle detection
  - Limited range and delayed communications
  - Autonomous real-time mission adaptation
  - Trajectory planning and tracking in presence of uncertainty
- Review recent progress in Active Vision Control (AFOSR MURI) and Robust Uncertainty Management (DARPA DSO)
- Identify approaches to solve Challenge Problems
- Identify Stakeholders



United Technologies Research Center

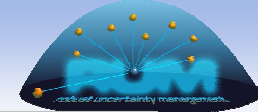


United Technologies Research Center



10/28/08 Room 125 in the Steele building at Caltech

8:00	Johnny Evers	AFRL, Eglin	Challenge problems
8:30	Corey Schumacher	AFRL, Wright Patterson	Challenge problems
9:00	William McEneaney	AFOSR	Challenge problems
9:30	break		
9:45	Alan Vannevel	NAVAIR	Challenge problems
10:15	Vineet Sahasrabudhe	Sikorsky Aircraft	Challenge problems
10:45	Allen Tannenbaum, Eric Johnson	GaTech	AFOSR MURI results
11:45	Working Lunch		
1:00	Andrzej Banaszuk, Jerry Marsden, Igor Mezic	UTRC, Caltech, UCSB	DARPA Robust Uncertainty Management
2:00	Select a challenge problem and approach	all	discussion
3:00	break		
3:15	Identify stakeholders and next steps	all	discussion
5:00	Adjourn		



Johnny Evers	AFRL, Eglin	<a href="mailto:johnny.evers@eglin.af.mil">johnny.evers@eglin.af.mil</a>
Siva Banda	AFRL, Wright Patterson	<a href="mailto:siva.banda@wpafb.af.mil">siva.banda@wpafb.af.mil</a>
Corey Schumacher	AFRL, Wright Patterson	<a href="mailto:Corey.Schumacher@WPAFB.AF.MIL">Corey.Schumacher@WPAFB.AF.MIL</a>
Marc Jacobs	AFOSR	<a href="mailto:marc.jacobs@afosr.af.mil">marc.jacobs@afosr.af.mil</a>
Willam McEneaney	AFOSR	<a href="mailto:wmcenean@ucsd.edu">wmcenean@ucsd.edu</a>
Alen Vannevel	NAVAIR, China Lake	<a href="mailto:alan.vannevel@navy.mil">alan.vannevel@navy.mil</a>
Vineet Sahasrabudhe	Sikorsky Aircraft	<a href="mailto:vSahasrabudhe@SIKORSKY.COM">vSahasrabudhe@SIKORSKY.COM</a>
Andrzej Banaszuk	UTRC	<a href="mailto:banasza@utrc.utc.com">banasza@utrc.utc.com</a>
Jose Miguel Pasini	UTRC	<a href="mailto:pasinijm@utrc.utc.com">pasinijm@utrc.utc.com</a>
Harshad Sane	UTRC	<a href="mailto:SaneHS@utrc.utc.com">SaneHS@utrc.utc.com</a>
Alan Finn	UTRC	<a href="mailto:finnam@utrc.utc.com">finnam@utrc.utc.com</a>
Clas Jacobson	UTRC	<a href="mailto:JacobsCA@utrc.utc.com">JacobsCA@utrc.utc.com</a>
Igor Mezcic	UCSB and Aimdyn	<a href="mailto:mezcic@engineering.ucsb.edu">mezcic@engineering.ucsb.edu</a>
Vladimir Fonoberov	Aimdyn	<a href="mailto:vfonoberov@gmail.com">vfonoberov@gmail.com</a>
George Mathew	UCSB	<a href="mailto:gmathew@engineering.ucsb.edu">gmathew@engineering.ucsb.edu</a>
Jerry Marsden	Caltech	<a href="mailto:jmarsden@cds.caltech.edu">jmarsden@cds.caltech.edu</a>
Philip DuToit	Caltech	<a href="mailto:pdutoit@cds.caltech.edu">pdutoit@cds.caltech.edu</a>
Marin Kobilarov	Caltech	<a href="mailto:mkobilar@usc.edu">mkobilar@usc.edu</a>
Sujit Nair	Caltech	<a href="mailto:nair@caltech.edu">nair@caltech.edu</a>
Sina Ober-Blöbaum	Caltech	<a href="mailto:sinaob@cds.caltech.edu">sinaob@cds.caltech.edu</a>
Eric Johnson	GaTech	<a href="mailto:Eric.Johnson@ae.gatech.edu">Eric.Johnson@ae.gatech.edu</a>
Allen Tannenbaum	GaTech	<a href="mailto:tannenba@ece.gatech.edu">tannenba@ece.gatech.edu</a>
John Murphy	UTRC	<a href="mailto:MurphyJS@utrc.utc.com">MurphyJS@utrc.utc.com</a>
Jimmy Yeh	UTRC	<a href="mailto:YehJL@utrc.utc.com">YehJL@utrc.utc.com</a>
Stefano Soatto	UCLS	<a href="mailto:SOATTO@UCLA.EDU">SOATTO@UCLA.EDU</a>