NRL Multi-Robot Systems Workshop

SUNDAY, MARCH 16

1800 - 2100	Check in; Pick up registration package in lobby of hotel

MONDAY, MARCH 17

0730 - 0830	Check in; Pick up of registration materials at NRL	
0830 - 0845	Welcoming remarks	

Government Programs

0845 - 0905	Dan Deitz, NAVSEA PMS-403*	Future vision of UUVs
0905 - 0925	John Bay, DARPA	
0925 - 0945	Scott Fish, DARPA	
0945 - 1005	Break	
1005 - 1025	David Knichel, MANSCEN DCD Fort Leonard Wood	Multi-Robot Countermine Operations
1025 - 1045	Bruce Clough, Air Force Research Lab	
1045 - 1105	Doug Gage, DARPA IPTO	
1105 - 1205	Panel Session I - Government Programs (Moderator: Randy Shumaker, IST)	
1205 - 1305	Lunch and Poster Session	

Sensor and Information Fusion

1305 - 1335	J. Franke	Information Sharing in Teams of Self-Aware Entities
1335 - 1405	S. Schemmer	Realizing Virtual Sensors by Distributed Multi-Level Sensor Fusion
1405 - 1435	S. Sukkarieh	Information Fusion and Control for Multiple UAVs
1435 - 1455	Break	

Large-Scale Robots

1455 - 1525	A. Martinoli	Optimization of Swarm Robotic Systems via Macroscopic Models
1525 - 1555	K. Konolige	CentiBOTS: Large Scale Robot Teams
1555 - 1625	L. Parker	The Effect of Heterogeneity in Teams of 100+ Mobile Robots
1625 - 1725	Panel Session 2	
1725 - 1830	Poster Session	

TUESDAY, MARCH 18

0800 - 0830	Check in; Pick up of registration materials at NRL	
0830 - 0845	Administrative Remarks	

Learning in Robot Teams

0845 - 0915	D. Hougen	Memetic Learning: A Novel Learning Method for Multi-Robot Systems
0915 - 0945	R. Arkin	Multistrategy Learning Methods for Multirobot Systems
0945 - 1005	Break	

Self-Reconfigurable Robots

1005 - 1035	W.M. Shen	Self-Assembly in Space via Self-Reconfigurable Robots
1035 - 1105	D. Rus	Distributed Locomotion Algorithms for Self-Reconfigurable Robots Operating on Rough Terrain
1105 - 1205	Panel Session 3	
1205 - 1305	Lunch and Poster Session	

Human-Robot Interaction

1305 - 1335	D. Bruemmer	Collaborative Tools for Mixed Teams of Humans and Robots
1335 - 1405	C. Johnson	Mixed-Initiative Control of Large Human-Robot Teams
1405 - 1435	M. Goodrich	Experiments in Human-Robot Teams
1435 - 1455	Break	
1455 - 1525	F. Schneider	Impact of Autonomy in Multirobot Systems on Teleoperation Performance

Communication Constraints and Networking

1525 - 1555	V. Kumar	Decentralized Motion Planning for Multiple Robots Subject to Sensing and Communication Constraints
1555 - 1625	J. Redi	Exploiting the Interactions Between Robotic Autonomy and Networks
1625 - 1725	Panel Session 4	

1830 - 2130 RECEPTION at the Radisson Hotel

WEDNESDAY, MARCH 19

0830 - 0845 Administrative Remarks

Planning and Task Allocation I

0845 - 0915	Brian Gerkey	A Framework for Studying Multi-Robot Task Allocation
0915 - 0945	R. Alami	On Architectural and Decisional Issues for Multi-Robot Cooperation

0945 - 1005 Break

Planning and Task Allocation II

1005 - 1035	R. Simmons	Market-Based Multi-Robot Planning in a Distributed Layered Architecture
1035 - 1105	D. MacKenzie	Collaborative Tasking of Tightly Constrained Multi-Robot Missions
1105 - 1205	Panel Session 5	

1205 - 1305 Lunch and Poster Session

Coordination and Control I

1305 - 1335	M. Benjamin	Multi-Objective Navigation and Control Using Interval Programming
1335 - 1405	A. Howard	Cooperative Relative Localization for Mobile Robot Teams: An Ego-Centric Approach
1405 - 1435	M. Veloso	Dynamic Multi-Robot Coordination

1435 - 1455 Break

Coordination and Control II

1455 - 1525	M. Kemp	Fractional Bandwidth Reacquisition Algorithms for VSW-MCM
1525 - 1555	T. Balch	Observing Multiple targets with Multiple Mobile Robots Using Probabilistic Behavior-Based Techniques
1555 - 1655	Panel Session 6	

THURSDAY, MARCH 20

9:00 - 3:00 NATO Multi-robot systems meeting