



Basic Research Innovation and Collaboration Center (BRICC)
4075 Wilson Blvd., Suite 350 | Liberty Room
Arlington, VA 22203

Agenda Day 1 – August 2, 2016

Time	Title	Speaker
07:00-08:00	Registration	
08:00-08:30	INTRODUCTIONS	Dr. Frederick Leve, AFOSR
08:30-09:00	Autonomous Decision Making under Uncertainty with Communication Constraints	Dr. David Casbeer, AFRL/RQQ
09:00-09:30	Verifiable Human-Automation UAV Mission Specication and Planning Systems	Dr. Laura Humphrey, AFRL/RQQ
09:30-10:00	Distributed Hybrid Information and Plan Consensus HIPC	Dr. Jon How, MIT
10:00-10:30	Cooperation and Autonomy	Dr. Naira Hovakimyan, UIUC
10:30-11:00	BREAK	
11:00-11:30	A Finite Alphabet Paradigm for Intelligent Autonomy	Dr. Danielle Tarraf, JHU
11:30-12:00	CbC Synthesis for Multi-Vehicle Autonomy Missions	Drs. Ufuk Topcu, UT Austin and Lee Pike, Galois
12:00-12:30	Probabilistic Validation of Complex Cyber-controlled Systems	Dr. Geir Dullerud, UIUC
12:30-14:00	LUNCH	
14:00-14:30	Minimal Representation and Decision Making for Networked Autonomous Agents	Dr. Soon Jo Chung on behalf of Dr. Petros Voulgaris, UIUC
14:30-15:00	Multi-Agent Control	Dr. Alex Olshevsky, UIUC
15:00-15:30	Control & Estimation in the Presence of Adversarial Action and Uncertainty	Dr. Meir Pachter, AFIT
15:30-16:00	Virtual Service Topology-based Networked Control Techniques for Contested Cognit	Dr. Robert Murphey, AFRL/RW
16:00-16:30	Motion Coordination and Adaptation Using Deception and Human Interactions	Drs. Magnus Egerstedt and Panos Tsiotras, GaTech
	MEETING ADJOURNED FOR THE DAY	

Agenda Day 2 – August 3, 2016

Time	Title	Speaker
07:00-08:00	Registration	
08:00-08:30	Hypersonic Vehicle Flight Control	Dr. Michael Bolender, AFRL/RQQ
08:30-09:00	Control, Filtering and System Identification for Directed Energy Systems	Dr. James Gibson, UCLA
09:00-09:30	Detection of a Moving Gas Source and Estimation of its Concentration Field	Dr. Michael Demetriou, WPI
09:30-10:00	Theory and techniques for modeling and control of turbulent shear flows	Dr. Mihailo Jovanovic, UMN
10:00-10:30	BREAK	
10:30-11:00	Investigation of the Role of First Principles Physics, Control, and Optimization in Precision Air Drop	Dr. Dave Doman, AFRL/RQQ
11:00-11:30	Surviving the Data Deluge	Dr. Mario Sznaier, Northeastern
11:30-12:00	Stochastic Surveillance	Dr. Francesco Bullo, UCSB
12:00-13:30	LUNCH	
13:30-14:00	Stochastic Hybrid Systems	Dr. Andy Teel, UCSB
14:00-14:30	Stochastic Control, Networks, Fundamental Solutions + Computational Complexity	Drs. William Mceneaney, UCSD and George Yin, Wayne State
14:30-15:00	Adaptive and Optimal Control of Stochastic Dynamical Systems	Drs. Tyrone Duncan and Bozena Pasik-Duncan, KU
15:00-15:30	Uncertainty Quantification	Dr. Harvey Banks, NCSU
15:30-16:00	Optimal mass transport for statistical estimation	Drs. Allen Tannenbaum, Stonybrook and Tryphon Georgiou, UMN
16:00-16:30	Synthesis of Reduced-Order Modeling, Global Sensitivity Analysis	Dr. Ralph Smith, NCSU
	MEETING ADJOURNED FOR THE DAY	

Agenda Day 3 – August 4, 2016

Time	Title	Speaker
07:00-08:00	Registration	
08:00-08:30	Game Engineering A Multiagent Systems Perspective	Dr. Jason Marden, UCSB
08:30-09:00	Mean Field Games and the Control of Large Scale Systems	Dr. Peter Caines, McGill
09:00-09:30	Compressive Feedback Control Design for Spatially Distributed Systems	Dr. Nader Motee, Lehigh
09:30-10:30	Theory-based Engineering of Biomolecular Circuits in Living Cells	Dr. Domitilla Del Vecchio, MIT
10:30-11:00	BREAK	
11:00-11:30	Algorithms with Formal Guarantees for Lyapunov Analysis of Control Sys	Dr. Amir Ali Ahmadi, Princeton
11:30-12:00	Idempotent Methods for Worst-Case Analysis and Optimal Control	Dr. Peter Dower, Melbourne
12:00-12:30	Optimal Sensor Location for Distributed Parameter Systems	Dr. Kirsten Morris, Waterloo
12:30-14:00	LUNCH	
14:00-14:30	Analysis of Spatially Extended Dynamical Systems	Drs. Igor Mezic, UCSB and Vladimir Fonoberov, AIMDYN
14:30-15:00	The Value of Information in Distributed Decision Networks	Dr. Munther Dahleh, MIT
15:00-15:30	State-dependent Dynamic Networks: A System theoretic Perspective	Dr. Mehran Mesbahi, UW
15:30-16:00	Network Realizable Controllers for Distributed Computational Systems	Dr. Nicola Elia, Iowa
16:00-16:30	Reconfigurable Algorithms	Dr. Ricardo Sanfelice, UCSC
	MEETING ADJOURNED	