

2025 AFOSR uCoE Review: Assured Autonomy in Contested Environments

Dr. Frederick Leve | February 12-13, 2025 | Arlington, VA - hybrid

Basic Research Innovation Collaboration Center (BRICC)
4100 N Fairfax Drive, Suite 450 | Arlington, VA

Agenda Day 1 | Wednesday, February 12, 2025

Time	Topic	Speaker
8:00-8:30	Registration and Badging	
8:30-8:35	Welcome, Opening Remarks, and Logistics	Fred Leve
8:35-9:10	Center Overview, Workforce Development and AFRL Collaboration	Warren Dixon, University of Florida
9:20-9:50	Modeling and Countering Misinformation in Adversarial Information Ecosystems	Ege Bayiz, Arash Amini, and Ufuk Topcu, University of Texas
10:00-10:30	Securing Autonomy for Contested World	Miroslav Pajic, Duke University
10:30-11:30	POSTERS	
11:30-1:15	LUNCH	
1:15-1:45	Reinforcement Learning for Joint Optimization of Sensing, Communications, and Control	John Shea, University of Florida
1:55-2:25	Deep Learning and Graphical Neural Networks for Autonomy	Brandon Fallin and Warren Dixon, University of Florida
2:30-2:45	BREAK	
2:45-3:15	Decentralized Decision-making in the Presence of Adversaries	Matthew Hale, Georgia Tech
3:25-3:55	Distributionally Robust Policy Evaluation and Learning	Yi Shen and Michael Zavlanos, Duke University
4:05-4:35	Robust Autonomy in Contested Environments via Hybrid Feedback Control	Carlos Montenegro, Nan Wang, and Ricardo Sanfelice, University of California Santa Cruz
	****Facilities close at 4:45 pm****	

Agenda Day 2 | Thursday, February 13, 2025

Time	Topic	Speaker
8:00-8:30	Registration and Badging	
8:30-9:00	Enhancing Spacecraft Autonomy and Mission Success in Harsh Environments Via Computational Throttling and Risk Governors	Channing Ludden and Chrispy Petersen University of Florida
9:10-9:40	Applications of Recursive Optimization to Simulated Spacecraft Docking	Anthony Aborizk and Norman Fitz-Coy, University of Florida
9:50-10:00	BREAK	
10:00-10:30	Active Mitigation of Space Weather Impacts on Spacecraft	Alicia Petersen, University of Florida
10:40-11:10	Protecting the Privacy of Computing Operations and Data in Autonomous Environments	Caroline Fedele and Kevin Butler, University of Florida
11:20-11:30	Concluding Remarks	Warren Dixon
11:30-12:00	Government Caucus	