



Calhoun: The NPS Institutional Archive
DSpace Repository

CRUSER (Consortium for Robotics and Unmanned Systems Education and Research)

2017-04

TECHCON 2017 - Schedule

Monterey, California. Naval Postgraduate School

<http://hdl.handle.net/10945/55231>

Downloaded from NPS Archive: Calhoun



Calhoun is a project of the Dudley Knox Library at NPS, furthering the precepts and goals of open government and government transparency. All information contained herein has been approved for release by the NPS Public Affairs Officer.

Dudley Knox Library / Naval Postgraduate School
411 Dyer Road / 1 University Circle
Monterey, California USA 93943

<http://www.nps.edu/library>



TUESDAY 11 APRIL

0900	Welcome	INGERSOLL 122
	Prof of Practice Jeffrey Kline:	
0910	NPS Operations Research	Quantifying the Military Value of AUSV
		Fly Forever: Using High Efficiency and Lightweight GaAs Solar as an Auxillary UAV Power Source
0930	Mr. Rob Parenti: Alta Devices	
	Capt Elle Ekman, USMC: NPS Operations Research	USMC Logistics Sustainment via Cargo Unmanned Vehicles
1010	Dr. Preetha Thulasiraman: NPS Electrical & Computer Eng.	Study of Security Primitives for the Robot Operating System (ROS) of UAV Swarms
	LT Todd Coursey, USN: NPS Physics	MEMS Acoustic Sensor for Drone Detection
1050	Mr. Bret Thomson: SSC PAC	R&D Concepts to Navy Capability through At-Sea Testing
		Robodata Archive for Visualizing CRUSER Unmanned System Field Experimentation
1110	Dr. Don Brutzman: NPS MOVES	
	Dr. Doug Horner: NPS Mechanical & Aerospace Eng.	Developing Autonomy within a Multi-Domain UxS Network Control System
1200	NPS CRUSER Meeting	
	LT Ryan Beall, USN: NPS Systems Engineering	L1 Adaptive Control
1330		Leveraging Complexity Science and Emergence for a Self-organizing Battlespace
1350	Dr. Josef Schaff: NAVAIR	
	Professor Kristen Tsolis: NPS Defense Analysis	Ant Weight Battle Bots as Learning Tools
1430	CAPT Reza Ghaffari, USN (ret): PMA 266	Developing Commander's Decision Making Support Tool for UAS Mission Readiness Situational Awareness of Cyber Threats
1450	Dr. John Wilcher: GTRI	Autonomous Cross Domain Preparations of Environment (POE)
	LCDR Dan DeCicco, USN: NPS SEA 25	Developing a Training System for Web Fires
1510		
	Dr. Mollie McGuire: NPS Information Sciences	Cognitive Psychology and Autonomous Systems
1530		
TRIDENT ROOM		Opening Reception



WEDNESDAY 12 APRIL

0900	Welcome	INGERSOLL 122
	CAPT George Galdorisi, USN (ret): SSC PAC	Designing UxS for Military Use: Harnessing AI to Provide Augmented Intelligence
0910	Maj Bruno Tavora, Brazilian Air Force: NPS MAE	Analysis & Experimentation of an Autonomous Aerial Manipulator Interaction with a Vertical Wall
0930	Mr. Jeff Cares: Alidade	Distributed Combat Power: Salvo Theory, Littoral Combat Ship, and Unmanned Systems
0950	LT Aaron Willmarth, USN: NPS Mechanical & Aerospace Eng.	Design and Control of an Aerial Manipulator to assist Navy Helicopters in Vertical Replenishment
1010	Dr. Joe Schaff: NAVAIR	Meta-Study of Recommendations to Transition Autonomous Functionality
1030	Dr. Kwang Sub Song: NPS Oceanography	Tactical Consideration for MCM CONOPS Establishment for Unmanned Surface Vehicles
1050	Prof Susan Sanchez: NPS Operations Research	Innovative Experimentation Enables Effective Employment of Unmanned Systems
1110	Mr. Gerald Scott: NPS Information Sciences	Teaming with AI: Creating Prosthetic Environments for Mental Health Relisency
1130		
1200	LAB TOUR	<i>Leaving from Ingersoll Plaza</i>
1330	ENS Tyler McCarthy, USN: NPS Systems Engineering	Runway Detection and Tracking for Autonomous Landing of a UAV
1350	Prof David Jenn: NPS Electrical & Computer Engineering	UAV Electromagnetic Sensors for Spectrum Sensing and Propagation Environment Assessment
1410	LT Marcus Torres, USN: NPS Systems Engineering	Fast Autonomous Recon System Prototyping
1430	Dr. Don Brutzman: NPS MOVES	Ethical Control of Autonomous Unmanned Systems
1450	Mr. Alex See: NPS Systems Engineering	Maritime Interdiction Operations Involving High-Speed USVs
1510	Dr. Sean Kragelund: NPS Mechanical & Aerospace Eng.	Generalized Optimal Control for Networked Autonomous Vehicles in Uncertain Domains