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CRUSER Technical Continuum 2016 (archived)

Monterey, California: Naval Postgraduate School

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TUESDAY 12 JULY

		Dr. Ray Buettner: CRUSER	
900	905	Director	Welcome
905	920	C. Blais: NPS MOVES	Government-Owned Software for Robotics Education and Research
			Challenges in Distinguishing Manned from Unmanned Systems in Combat
925	940	C. Blais: NPS MOVES	Models
945	1000	R. Gamache: NPS PH	Electric Gun System
1005	1020	E. Gyde: BATTELLE	Interactive 360 Video for Autonomous and Unmanned Platforms
			Path Integral Control with Evolved Cost Functions for Control of Agile
1025	1040	J. Reeder: SSC	UAV Swarms
			Prototype Basic MCM UUV Search Mission Management AI Module
1045	1100	K. Song: NPS OC	Integration
		D. Brutzman/D. Davis/C.	
1105	1120	Blais/R. McGhee: NPS MOVES	Ethical Mission Tasking and Execution for Maritime Robotic Vehicles
1125	1140	D. Mortimore: NUWC Keyport	Unmanned Systems Research and Experimentation Opportunities
		H. Park/Tavora	Project MANICOPTER: Autonomous Aerial Vehicles with Robotic
1145	1200	Romano/Yun:NPS MAE/ECE	Manipulation Capability
		J. Virgili-Llop/M. Romano:	Modeling and control of UxV with onboard robotic manipulators of
1205	1220	NPS MAE	similar size
1225	1240	K. Jones: NPS MAE	Aqua-Quad: Status and Future Developments
1245	1300	W. Kang: NPS MA	Observability and Optimal Sensor Placement for Mobile Sensor Networks
			Using Co-Active Design to Implement Marine Machine Interdependence
1305	1320	D. Boger/ S. Miller: NPS IS	in Squad Maneuvers
			Bio-inspired MEMS acoustic sensor for robotic autonomous systems
1325	1340	F. Alves: NPS PH	applications
1345	1400	S. Fahey: NPS CS	USV for Maritime Shield
1405	1420	S. Kragelund: NPS MAE	Experimentation in Extreme Environments: Recent Results by CAVR



WEDNESDAY 13 JULY

		Dr. Brian Bingham: CRUSER	
900	905	Deputy Director	Welcome
			Developing Single Sortie Detect to Engage Multi-Vehicle Autonomy with
905	920	B. Bingham: NPS MAE	Ground-Based Testbed
			Acoustic Characterization of the New Arctic using Unmanned Systems in
925	940	J. Joseph: NPS OC	ICEX-16
		Y. Kwon/J. Klamo: NPS	
945	1000	SE/MAE	Unsteady Loads on UUV during Near Surface Operation
			Evaluation of Security Algorithms in Cyber Defense of UAV Swarm
1005	1020	P. Thulasiraman: NPS ECE	Communications
1025	1040	G. Xie: NPS CS	Reliable Ad-hoc Communication through Multi-path Data Delivery
1045	1100	D. Brutzman: NPS IS/USW	RoboData Archive for JIFX/CRUSER Unmanned System Experimentation
		J. Testa/V. Dobrokhodov: NPS	
1105	1120	MAE	Interdiction Operation
1125	1140	X. Yun/ J. Calusdian: NPS ECE	MATLAB Interface for the P3-DX Mobile Robot
		C. Walton/ I. Kaminer: NPS	
1145	1200	MAE	Optimal Sensor Deployment and Information Gathering using UxSs
			Photogrammetric Point Cloud Fusion Using UAV Collected Thermal
1205	1220	J. Metcalf/R.C. Olsen: NPS PH	Imagery
4225	4240	D. D	Construction Construction Description and Entering Discourse
1225	1240	R. Buettner/M. Jones: NPS IS	Swarm versus Swarm: Progress and Future Plans
1245	1200	K. Giammarco/M.	Monterey Phoenix Behavior Modeling of Robotics and Unmanned
1245	1300	Auguston/K. Giles: NPS SE/CS	•
1205	1220	D. Cuccti NDC MD	Using Quad-rotor UAS to Perform Meteorological Measurements From
1305	1320	P. Guest: NPS MR	Ships
1225	1240	C. Canchari NDC OD	Closing Capability Gaps: Data Farming Methods for New Concept
1325	1340	S. Sanchez: NPS OR	Exploration in the CRUSER Community
1245	1/00	S. Kragelund/ C. Walton/ I. Kaminer: NPS MAE	Sanar Dataction Mission Planning Tool for Autonomous Vahisla Tooms
1345	1400	NAITHHELL NYS MAE	Sonar Detection Mission Planning Tool for Autonomous Vehicle Teams
1405	1/20	D. Prutzman: NDC IC/LICA	QR and DFL Optical Communications for Network Optional Warfare
1405	1420	D. Brutzman: NPS IS/USW	(NOW)