



AGENDA

Wednesday May 31, 2017 (Academic Classroom Building, Room 109)

		<u>Moderator</u>
11:45 – 12:30	Lunch	
12:30 - 01:15	Welcome & Introductions Dr. Barry Burks, VC, Division of Research and Economic Development Dr. Harold Martin, Chancellor Dr. Robin Coger, Dean, College of Engineering Ms. Evelyn Kent, Program Manager, Office of the Secretary of Defense	Dr. Barry Burks
01:15 - 01:45	TECHLAV Overview/Update Dr. Abdollah (Ebbie) Homaifar, Director, TECHLAV Center, Department of Electrical and Computer Engineering, North Carolina A&T State University	Dr. Emily Doucette
01:45 - 02:25	Keynote: "First Principles for Software - the Need for Formal Design" Mr. Matthew Clark, Supervisor of the Autonomous Controls Branch, Power and Control Division, Aerospace Systems Directorate, Air Force Research Laboratory (AFRL/RQQA)	Dr. Emily Doucette
02:25 - 02:40	Thrust 1: Modeling, Analysis and Control of Large-scale Systems of Autonomous Vehicles; Update/ Progress Dr. Mo Jamshidi, Thrust 1 lead, Department of Electrical and Computer Engineering, University of Texas at San Antonio	Dr. Emily Doucette
02:40 - 03:00	Deep Neural Network Enhanced Landmark Selection for VSLAM Dr. Patrick Benavidez, Thrust 1 Faculty, Department of Electrical and Computer Engineering, University of Texas at San Antonio	
03:00 - 03:15	Break	
03:15 - 03:45	Motion Planning in Dynamic Adversarial Environments Mrs. Laya Shamgah, TECHLAV PhD Student, Research Thrust 1, Department of Electrical and Computer Engineering, North Carolina A&T State University Task Allocation Using Parallelized Clustering and Auctioning Algorithms for Heterogeneous Robotic Swarms Operating on a Cloud Network Mr. Jonathan Lwowski, TECHLAV PhD Student, Research Thrust 1, Department of Electrical and Computer Engineering, University of Texas at San Antonio	
03:45 - 04:00	Thrust 2: Resilient Control and Communication of Large-scale Systems of Autonomous Vehicles; Update/ Progress Dr. Ali Karimodini, TECHLAV Deputy Director and Thrust 2 lead, Department of Electrical and Computer Engineering, North Carolina A&T State University	Mike Corey
04:00 - 04:20	Self Organizing Networks that Learn Dr. Brian Kelly, TECHLAV Faculty, Research Thrust 2, Department of Electrical and Computer Engineering, University of Texas at San Antonio	
04:20 - 05:05	Health Monitoring of Autonomous Systems under Uncertain Initial Conditions Mr. Alejandro White, TECHLAV PhD Student, Research Thrust 2, Department of Electrical and Computer Engineering, North Carolina A&T State University Internet of Things: A Discussion on Security and Resource Allocation Mr. Nima Namvar, TECHLAV PhD Student, Thrust 2, Department of Electrical and Computer Engineering, North Carolina A&T State University Time Delay in Internet-Based Control Systems Mr. Christopher Thomas, TECHLAV PhD Student, Research Thrust 2, Department of Mechanical Engineering, North Carolina A&T State University	
05:05 – 07:00	Posters and Dinner	



Thursday June 1, 2017 (Academic Classroom Building, Room 109)

		Moderator
07:45 – 08:15	Breakfast	
08:15 - 08:55	Keynote: "Recent Developments in Estimation and Control of Freeway Traffic" Dr. Roberto Horowitz, Professor and the James Fife Endowed Chair University of California at Berkeley	Ali Karimoddini
08:55 - 9:10	Thrust 3: Testing, Evaluation and Verification of Large-scale Autonomous Vehicles; Update/ Progress Dr. Younho Seong, Thrust 3 Lead, Department of Industrial and Systems Engineering, North Carolina A&T State University	Mike Corey
09:10 - 09:30	Knowing what's out there: How do humans integrate multiple uncertain information sources in target identification? Dr. Joseph Stephens, TECHLAV Faculty, Research Thrust 3, Psychology Department, North Carolina A&T State University	
09:30 - 09:45	Electroencephalography (EEG) –Based Indices for Human-System Symbiosis Mr. Joseph Nuamah, TECHLAV PhD Student, Research Thrust 3, Department of Industrial and Systems Engineering, North Carolina A&T State University	
09:45 – 10:00	TECHLAV Education; Update/ Progress Dr. John C. Kelly, Lead for TECHLAV Education, Department of Electrical and Computer Engineering, North Carolina A&T State University	Dr. Emily Doucette
10:00 – 10:15	TECHLAV Outreach; Update/ Progress Dr. Nader Vadiiee, Lead for TECHLAV Outreach, Southwestern Indian Polytechnic Institute	
10:15 – 10:30	Break	
10:30 - 10:45	Localization Using Sensory Fusion in Autonomous Vehicles Ms. Schulte Cooke, TECHLAV Southwestern Indian Polytechnic Institute Student	
10:45 – 11:00	TECHLAV Award Ceremony	
11:00 – 12:00	Panel Discussion- Advisory Board Members	Dr. Emily Doucette
12:00 – 01:00	Lunch	
01:00 – 02:30	Demonstrations (Fort IRC, Room 222 and Cherry Hall)	
02:30 - 04:00	SIAB/AF Technical Advisors/TECHLAV Leadership Meeting, and Report Preparations	Eddie Tunstel and Mike Corey