PROGRAM AGENDA

National Science Foundation - 2014 National Workshop on Transportation Cyber-Physical Systems

Thursday, January 23, 2014		Meeting Room
7:30 a.m. – 8:30 a.m.	**Registration and Continental Breakfast**	Riverview Foyer
8:30 a.m. – 8:40 a.m.	**Opening Remarks, Introductions, Workshop Goals: Keith Marzullo (NSF)**	Riverview
8:40 a.m. – 8:55 a.m.	**Invited Talk – Government: David Kuehn (DOT)**	Riverview
8:55 a.m. – 9:10 a.m.	**Invited Talk – Industry: John Capp (GM)**	Riverview
9:10 a.m. – 9:25 a.m.	**Invited Talk – Academia: Raj Rajkumar (Carnegie Mellon & Workshop Chair)**	Riverview
9:25 a.m. – 9:40 a.m.	**Break**	Riverview Foyer
9:40 a.m. – 11:55 a.m.	**Session I: Connected Vehicles and Automation**	
9:40 a.m. – 10:25 a.m.	Invited Talks (Plenary): Ruzena Bajcsy (UC-Berkeley) / Umit Ozguner (Ohio State) / Panagiotis Tsiotras (GA Tech)	Riverview
10:25 a.m. – 11:25 a.m.	Breakout Sessions (Parallel)	
	1. Controls and V2V: Tian He (Minnesota) - Moderator / Marco Pavone (Stanford) – Scribe / Wei Yu (Towson) - Scribe	Riverview
	2. Safety and Dependability: Shige Wang (GM) - Moderator / Yaser Fallah (West Virginia) - Scribe	Archimedes
	3. Human Factors: Paul Green (Michigan) - Moderator / Lili Du (Illinois Inst. of Tech) - Scribe	Tera
11:25 a.m. – 11:55 a.m.	Session I Breakout Summary Reports (Plenary)	Riverview
11:55 a.m. – 12:55 p.m.	**Lunch**	Riverview Foyer
12:55 p.m. – 3:10 p.m.	**Session II: Aviation**	
12:55 p.m. – 1:40 p.m.	Invited Talks (Plenary): James Paunicka (Boeing) / Hamsa Balakrishnanan (MIT) / Parimal Kopardekar (NASA)	Riverview
1:40 p.m. – 2:40 p.m.	Breakout Sessions (Parallel)	
	1. Aerial Networks: Natasha Neogi (NIA Net) - Moderator / Yan Wan (North Texas) - Scribe	Riverview
	2. UAVs: Christine Belcastro (NASA) - Moderator / Sumit Kumar Jha (Central Florida) - Scribe	Archimedes
	3. Next-Gen Aviation: Kagan Tumer (Oregon State) - Moderator / Krishna Sampigethaya (Boeing) - Scribe	Tera

2:40 p.m. – 3:10 p.m.	Session II Breakout Summary Reports (Plenary)	
3:10 p.m. – 3:25 p.m.	**Break**	Riverview Foyer
3:25 p.m. – 5:25 p.m.	**Session III: Infrastructure, Cloud-Based Systems, Green Approaches**	
3:25 p.m. – 3:55 p.m.	Invited Talks (Plenary): Wei Zhao (Macau-China) / Aniruddha Gokhale (Vanderbilt)	Riverview
3:55 p.m. - 4:55 p.m.	Breakout Sessions (Parallel)	
	1. EVs and Personalization: Ralf Birken (Northeastern) - Moderator / Jie Fu (UPenn) - Scribe	Riverview
	2. Integration: Nalini Venkatasubramanian (UC-Irvine) - Moderator / Wei Yu (Towson) - Scribe	Archimedes
	3. Cloud Infrastructure: Joseph Loyall (BBN) - Moderator / Ting Zhu (Binghamton) - Scribe	Tera
4:55 p.m. – 5:25 p.m.	Session III Breakout Summary Reports (Plenary)	Riverview
5:25 p.m. – 6:00 p.m.	**Day 1 Wrap-Up/Review of Day 2 Proceedings**	Riverview
6:00 p.m.	**End of Day 1 Sessions**	
Friday, January 24, 2014		
7:00 a.m. – 8:00 a.m.	**Registration and Continental Breakfast**	Riverview Foyer
8:00 a.m. – 10:15 a.m.	**Session IV: Model-Based Design, Verification and Validation**	
8:00 a.m. – 8:45 a.m.	Invited Talks (Plenary): Peter Seiler (Minnesota) / Phil Koopman (Carnegie Mellon) / Xenofon Koutsoukos (Vanderbilt)	Riverview
8:45 a.m. – 9:45 a.m.	Breakout Sessions (Parallel)	
	1. Testing and Verification: Ken Butts (Toyota) - Moderator / Georgios Fainekos (Arizona State) - Scribe	Riverview
	2. Model-Based Design: William Milam (Ford) - Moderator / Oleg Sokolsky (UPenn) - Scribe	Archimedes
	3. Formal Methods: Dan Work (UIUC) - Moderator / Tom Fuhrman (GM) - Scribe	Tera
9:45 a.m. – 10:15 a.m.	Session IV: Breakout Summary Reports (Plenary)	Riverview
10:15 a.m. – 10:30 a.m.	**Break**	Riverview Foyer
10:30 a.m. – 12:45 p.m.	**Session V: Cyber-Physical Security and Privacy**	
10:30 a.m. – 11:00 a.m.	Invited Talks (Plenary): Suhas Diggavi (UCLA) / Ulf Lindqvist (SRI)	Riverview
11:00 a.m. – 12:00 p.m.	Breakout Sessions (Parallel)	

	1. Trustworthiness: Marco Gruteser (Rutgers) - Moderator / Sriram Chellappan (Missouri S&T) - Scribe	Riverview
	2. Defense Strategies and Mechanisms: S. Felix Wu (UC-Davis) - Moderator / Stephane LaFortune (Michigan) - Scribe	Archimedes
	3. Resilience: Saurabh Amin (MIT) - Moderator / Xenofon Koutsoukos (Vanderbilt) - Scribe	Tera
12:00 p.m. – 12:30 p.m.	Session V Breakout Summary Reports (Plenary)	Riverview
12:30 p.m. – 1:00 p.m.	**All Issues: Brainstorming and Report Outline (Plenary)**: **Raj Rajkumar (CMU and Workshop Chair)**	Riverview
1:00 p.m. – 1:15 p.m.	**NSF Feedback: David Corman (NSF)**	Riverview
1:15 p.m.	**Workshop Adjourned**	
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1:15 p.m. – 3:15 p.m.	**Working Lunch: Report Drafing: Raj Rajkumar (CMU and Workshop Chair) / David Corman (NSF)**	Powilatis
3:15 p.m. – 3:30 p.m.	**Plan for Completion**	