



Last Updated: September 17, 2018

Toyota Research Institute - Quarterly Updates

September 18-19, 2018; Terman Conference Room 32-346

Tuesday, September-18-2018

Day 1

- 9:00am – 9:30am Wojciech Matusik: *Dense, Freeform Tactile Feedback for Manipulation and Control*
- 9:30am – 9:40am **Break**
- 9:40am – 10:10am Antonio Torralba, Wojciech Matusik: *Predicting a Driver's State-of-Mind*
- 10:10am – 10:40am **Break**
- 10:40am – 11:00am Sangbae Kim: *All Terrain Mobility and Navigation*
- 11:00am – 11:30am Gerald Sussman, Lalana Kagal: *The Car Can Explain!*
- 11:30am – 12:00pm Bill Freeman, Ruth Rosenholtz: *Uncovering the Pain Points in Driving*
- 12:00pm – 1:00pm **Lunch**
- 1:00pm – 1:45pm Brian Williams: *Uhura-A Driver's Personal Coach for Managing Risk / Automation for Everyone + Geordi-A Driver's Assistant for Risk-bounded Maneuvering*
- 1:45pm – 1:50pm **Break**
- 1:50pm – 2:20pm Nick Roy, Boris Katz: *Using Vision and Language to Read Minds*
- 2:20pm – 2:50pm Alberto Rodriguez: *The Robotic Manipulation Data Engine*
- 2:50pm – 3:00pm **Break**
- 3:00pm – 3:30pm Josh Tanenbaum: *Analysis by Synthesis Revisited...*
- 3:30pm – 4:00pm Edward Adelson: *Exploring the World of High Definition Touch + Inner Vision: Camera Based Proprioception for Soft Robots*
- 4:00pm – 4:10pm **Break**
- 4:10pm – 4:40pm Armando Solar-Lezama: *Formal Verification Meets Big Data Intelligence...*
- 4:40pm – 5:00pm Armando Solar-Lezama, Daniel Jackson: *A Safety Interlock for Self-Driving Cars*

Wednesday, September-19-2018

Day 2

- 9:00am – 10:00am Sertac Karaman, Daniela Rus: *Parallel Autonomous Driving System + Decision Making for Parallel Autonomy in Clutter + Tools and Data to Revolutionize Driving*
- 10:00am – 10:05am **Break**
- 10:05am – 10:35am Saman Amarasinghe, Fredo Durand: *Drinking from the Visual Firehose...*
- 10:35am – 11:05am Fredo Durand: *Simulation and Verification for Vision-in-the-Loop Control*
- 11:05am – 11:15am **Break**
- 11:15am – 11:45am Jim Glass, Antonio Torralba: *Crossing the Vision-Language Boundary*
- 11:45am – 12:15pm Justin Solomon: *Sensible Deep Learning for 3D Data*
- 12:15pm – 1:00pm **Lunch (Wrap-Up)**