



Last Updated: May 15, 2018

Toyota Research Institute - Quarterly Updates

May 16-17, 2018; Terman Conference Room 32-346

Wednesday, May-16-2018

- 9:00am – 9:30am Sangbae Kim: *All Terrain Mobility and Navigation*
- 9:30am – 10:00am Dina Katabi: *WiFi-Based Obstacle Detection for Robot Navigation*
- 10:00am – 10:30am Saman Amarasinghe, Fredo Durand: *Drinking from the Visual Firehose...*
- 10:30am – 10:45am **Break**
- 10:45am – 11:15am Jim Glass, Antonio Torralba: *Crossing the Vision-Language Boundary*
- 11:15am – 11:45am Gerald Sussman, Lalana Kagal: *The Car Can Explain!*
- 11:45am – 12:15pm Antonio Torralba, Wojciech Matusik: *Predicting a Driver's State-of-Mind*
- 12:15pm – 1:00pm **Lunch**
- 1:00pm – 1:30pm Berthold Horn: *Driver-Friendly Bilateral Control for Suppressing Traffic Instabilities*
- 1:30pm – 2:00pm Fredo Durand: *Simulation and Verification for Vision-in-the-Loop Control*
- 2:00pm – 2:30pm Daniel Jackson, Armando Solar-Lezama: *A Safety Interlock for Self-Driving Cars*
- 2:30pm – 3:00pm Wojciech Matusik: *Dense, Freeform Tactile Feedback for Manipulation and Control*
- 3:00pm – 3:30pm Alberto Rodriguez: *The Robotic Manipulation Data Engine*
- 3:30pm – 4:00pm Ruth Rosenholtz, Bill Freeman: *Uncovering the Pain Points in Driving*
- 4:00pm – 4:30pm Josh Tanenbaum: *Analysis by Synthesis Revisited...*

Thursday, May-17-2018

- 9:00am – 9:30am Brian Williams: *Geordi-A Driver's Assistant for Risk-bounded Maneuvering + Uhura-A Driver's Personal Coach for Managing Risk / Automation for Everyone*
- 9:30am – 10:00am Edward Adelson: *Exploring the World of High Definition Touch*
- 10:00am – 10:30am Edward Adelson: *Inner Vision: Camera Based Proprioception for Soft Robots*
- 10:30am – 10:45am **Break**
- 10:45am – 11:15am Justin Solomon: *Sensible Deep Learning for 3D Data*
- 11:15am – 11:45am Armando Solar-Lezama: *Formal Verification Meets Big Data Intelligence...*
- 11:45am – 12:30pm **Lunch**
- 12:30pm – 1:00pm Nick Roy, Boris Katz: *Using Vision and Language to Read Minds*
- 1:00pm – 1:45pm Daniela Rus, Sertac Karaman: *Parallel Autonomous Driving System + Decision Making for Parallel Autonomy in Clutter + Tools and Data to Revolutionize Driving*
- 1:45pm – 2:00pm Visit Wrap-up with Daniela Rus