



Last Updated: November 20, 2019

Quarterly Updates
Toyota-CSAIL Joint Research Center
December 5-6, 2019; Terman Conference Room 32-346

Thursday, December-5-2019

Day 1

- 9:00am – 9:45am *Differentiable computer graphics for training and verification of machine perception* (PI: Fredo Durand)
TRI Liaisons: Soonho Kong, Kunimatsu Hashimoto
- 9:45am – 10:30am *Using Deep Learning to Speed Up Deep Learning* (PIs: Saman Amarasinghe, Fredo Durand)
TRI Liaisons: Paul Drews
- 10:30am – 10:45am **Break**
- 10:45am – 11:30am *The Car Can Explain!* (PIs: Gerald Sussman, Lalana Kagal)
TRI Liaisons: Luke Fletcher, Paul Drews
- 11:30am – 12:15pm *Automation for Everyone* (PI: Brian Williams)
TRI Liaisons: Calder Phillips-Grafflin
- 12:15pm – 1:00pm **Lunch**
- 1:00pm – 1:45pm *A Parallel Autonomy System: Data-Driven and Model-Based Parallel Autonomy with Robustness and Safety Guarantees* (PIs: Daniela Rus, Sertac Karaman)
TRI Liaisons: Steve McGill, Guy Rosman
- 1:45pm – 2:30pm *Decision Making for Parallel Autonomy in Clutter: Addressing Intent, Interactions, Rules of the Road, and Safety* (PIs: Daniela Rus, Sertac Karaman)
TRI Liaisons: Steve McGill, Guy Rosman
- 2:30pm – 2:40pm **Break**
- 2:40pm – 3:20pm *Formal Verification Meets Big Data Intelligence to address the Trillion Miles Challenge* (PI: Armando Solar-Lezama)
TRI Liaisons: Soonho Kong, Jon DeCastro
- 3:20pm – 4:00pm *A Safety Interlock for Self-driving Cars* (PIs: Daniel Jackson, Armando Solar-Lezama)
TRI Liaisons: Soonho Kong
- 4:00pm – 4:45pm *Machines that can Introspect* (PIs: Nick Roy, Boris Katz)
TRI Liaisons: Guy Rosman
- 5:00pm – 5:30pm **Wrap-up meeting with Daniela Rus**

Friday, December-6-2019

Day 2

No meetings scheduled