



Toyota Research Institute Project Reviews

Friday, June 9, 2017

11:00am *offsite demo - Ft. Devens, MA (42.523400, -71.601964), Daniela Rus and car team*

Monday, June 12, 2017

MIT Stata Center, 32 Vassar Street, Cambridge, MA 02139

All meetings in Hewlett Conference Room 32-G882 (unless noted otherwise)

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|-----------------|---|
| 9:30 - 10:00am  | Simulation and verification for Vision-in-the-Loop Control<br>Fredo Durand (remote conference)  |
| 10:00 - 10:30am | WiFi-Based Obstacle Detection for Robot Navigation<br>Dina Katabi   |
| 10:30 - 11:00am | Drinking from the Visual Firehose: High-Frame-Rate, High-Resolution Computer Vision for Autonomous and Assisted Driving - Saman Amarasinghe |
| 11:00 - 11:15am | Break   |
| 11:15 - 11:45am | Uncovering the Pain Points in Driving<br>Bill Freeman, Aude Oliva   |
| 11:45 - 12:15pm | Geordi-A Driver's Assistant for Risk-Bounded Maneuvering<br>Brian Williams  |
| 12:15 - 12:45pm | Uhura - A Driver's Personal Coach for Managing Risk<br>Brian Williams   |
| 12:45 - 1:30pm  | Lunch   |
| 1:30 - 2:00pm   | The Car Can Explain!<br>Gerry Sussman   |
| 2:00 - 2:30pm   | Using Language and Vision to Read Minds<br>Boris Katz   |
| 2:30 - 3:00pm   | Exploring the World of High Definition Touch<br>Ted Adelson   |
| 3:00 - 3:15pm   | Break   |
| 3:15 - 3:45pm   | Crossing the Vision-Language Boundary for Contextual Human-Vehicle Interaction<br>Jim Glass   |
| 3:45 - 4:15pm   | Formal Verification Meets Big Data Intelligence to address the Trillion Miles Challenge<br>Armando Solar-Lezama                             |
| 4:15 - 4:45pm   | Predicting a Driver's State-of-Mind<br>Antonio Torralba   |
| 4:45 - 5:15pm   | Analysis by Synthesis Revisited: Visual Scene Understanding by Integrating Probabilistic Programs and Deep Learning - Josh Tenenbaum        |