Workshop on
Autonomous vehicles and society – A technology perspective

Organized by
Indian Institute of Technology, Madras

Date: 29th November, 2013
Venue: IC & SR Building, IITM
Although cars are not flying yet, self-driving cars are definitively closer than some may think. Numerous research organizations and major companies have developed working prototype autonomous vehicles.

Three U.S. states have passed laws permitting autonomous cars on public roads and the UK is currently working on making similar policy changes. Technical challenges are of great importance to fully transition to these vehicles, but legislation, infrastructure and human factors elements are of equal significance to tackle, and have received much less attention. With this workshop, we would like to start the conversation of Autonomous Vehicles with experts and researchers specifically in the area of Human Factors and User Experience.

This workshop will explore the emerging themes of autonomous driving, social driving and novel user interface approaches. The aim being to define the future landscape for research within and across each these areas.

It aims to collect different, radical, innovative, versatile and engaging works that challenge or re-imagine human interactions in today’s automobile space. It will seek to challenge existing thinking by exploring what is possible both now and by the time the autonomous vehicle is a standard feature of our roads. Participants will be encouraged to suggest alternative concepts whether low fidelity, high fidelity, or both. Especially encouraged will be works that are experiential and can be demonstrated hands on. The workshop will be an opportunity to re-shape the conversation of automobile technology by introducing the community to a new way of thinking.

Researchers, Practitioners, Policy makers and Manufacturers working in futuristic transportation solutions would find the workshop a relevant platform to express their opinions, exchange their views and find avenues for future research.

Invited talks

- Technologies involved -
  - Computer vision, Robotics, Sensors and Sensor fusion, Road World Model
- Case studies on development of Autonomous vehicle technology
- Lessons learnt from other relevant areas
- Hurdles for autonomous vehicles in the Indian context
- Developing an ecosystem for intelligent vehicles: Business needs and commercial aspects
- Autonomous vehicles from the Regulatory view point
- Autonomous Vehicles - Infrastructural needs
- Infotainment

Whom should attend

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Coordinators

Dr. Anurag Mittal, Indian Institute of Technology Madras, Chennai

Dr. K Madhava Krishna, International Institute of Information Technology, Hyderabad

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