



## **Workshop on Environment Perception for Automated On-road Vehicles**

**9:00-12:00, June 28 (Sunday), 2015, COEX, Seoul, Korea**

### **Session I**

Chair: Prokhorov, Danil

Toyota Research Institute North America, USA

Co-Chair: Guo, Chunzhao

Toyota Central R&D Labs., Inc., Japan

#### **09:00-09:05 Opening**

Prokhorov, Danil

Toyota Research Institute North America, USA

#### **09:05-09:55 Keynote Speech**

Several Difficult Problems to Be Solved for Car Environment Recognition and Our Trials

Mita, Seiichi

Toyota Technological Institute, Japan

#### **09:55-10:25 Presentation of TRINA**

Sensors, Maps, and Prior Knowledge: Perception for Automated Vehicles at Toyota Research Institute North America

Prokhorov, Danil

Toyota Research Institute North America, USA

#### **10:25-10:45 Coffee Break**

## Session II

Chair: Guo, Chunzhao

Toyota Central R&D Labs., Inc., Japan

Co-Chair: Prokhorov, Danil

Toyota Research Institute North America, USA

### 10:45-11:15 Presentation of TCRDL

Hardware and Software R&D Activities for Road Environment Perception at Toyota Central R&D Labs., Inc.

Guo, Chunzhao

Toyota Central R&D Labs., Inc., Japan

### 11:15-11:30 Workshop Paper 1

A Proposal for Neuro-ITS over the Connected Vehicles Network

Sasaki, Mikio

Denso Corporation, Japan

### 11:30-11:45 Workshop Paper 2

Pedestrian Orientation Classification Utilizing Single-Chip Coaxial RGB-ToF Camera

Shinnmura, Fumito

Nagoya University, Japan

Kawanishi, Yasutomo

Nagoya University, Japan

Deguchi, Daisuke

Nagoya University, Japan

Ide, Ichiro

Nagoya University, Japan

Murase, Hiroshi

Nagoya University, Japan

Fujiyoshi, Hironobu

Chubu University, Japan

### 11:45-12:00 Workshop Paper 3

Grid Map based Free Space Estimation using Stereo Vision

Harms, Hannes

Karlsruhe Institute of Technology

Rehder, Eike

Karlsruhe Institute of Technology

Lauer, Martin

Karlsruhe Institute of Technology