

# SHINTARO ONO LAB

(Proj. Assoc. Prof.)

## [Sensing and Visualization for ITS]



Vehicle Dynamic Control Strategy of Automated Driving\*  
Advanced Mobility Research Center (ITS Center)

Mechano-Informatic Mobility Engineering

\*Corporate Sponsored Research Program

<http://www.its.iis.u-tokyo.ac.jp/onoshin/>

Visualization  
Practical Use

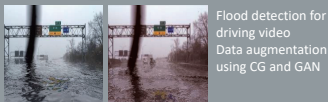
Real Scene Understanding  
Information Extraction

Real World Sensing  
Modeling

### Basic Technology for Automated Driving -- Toward wider ODD --



### Detecting Unusual Events



### Sensing by Specialized Vehicle



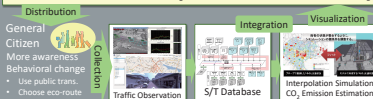
▼ Street Panorama before East Japan Earthquake Reconstructed from Driving Video Recorder

### Video-based Driving Simulator



Enhancing reality using real video for background

### System for Information Collection, Integration, Visualization, and Distribution



Reducing CO<sub>2</sub> Emission by Raising Awareness of Citizens.  
Social experiment in Kashiwa City proved the possibility of 8% reduction by the Regional Transport Information System for promoting eco-friendly travel behavior.

### Space-time Video Processing



### Sensing by General Vehicles

