SENSING and VISUALIZATION for ITS



SHINTARO ONO Pj. Assoc. Professor

[Sensing and Visualization for ITS]



Advanced Mobility Research Center (ITS Center)

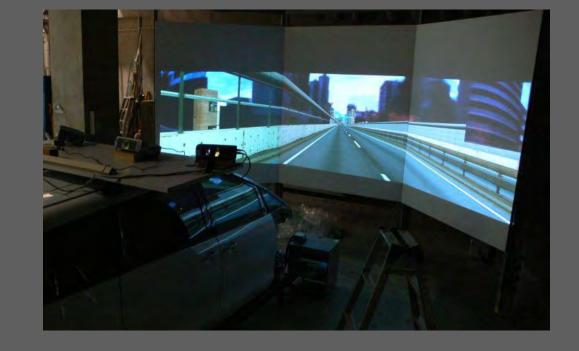
Spatio-Temporal Mobility Informatics Mechano-Informatic Mobility Engineering

This work was done in collaboration with ITS Labs.

Basic Technology for Automated Driving

Video-based Driving Simulator





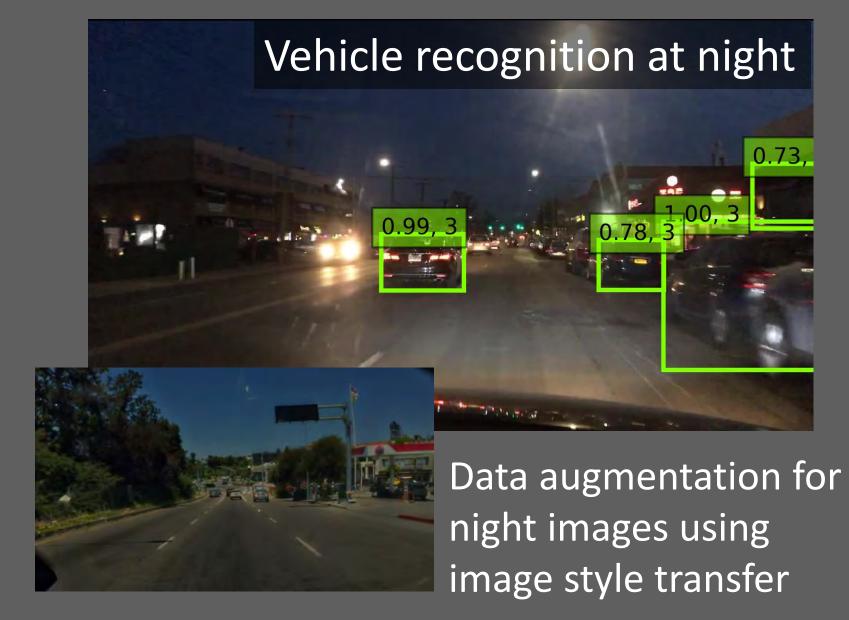
http://www.its.iis.u-tokyo.ac.jp/~onoshin/

isualization Practical Use

Real Scene Und Informatio

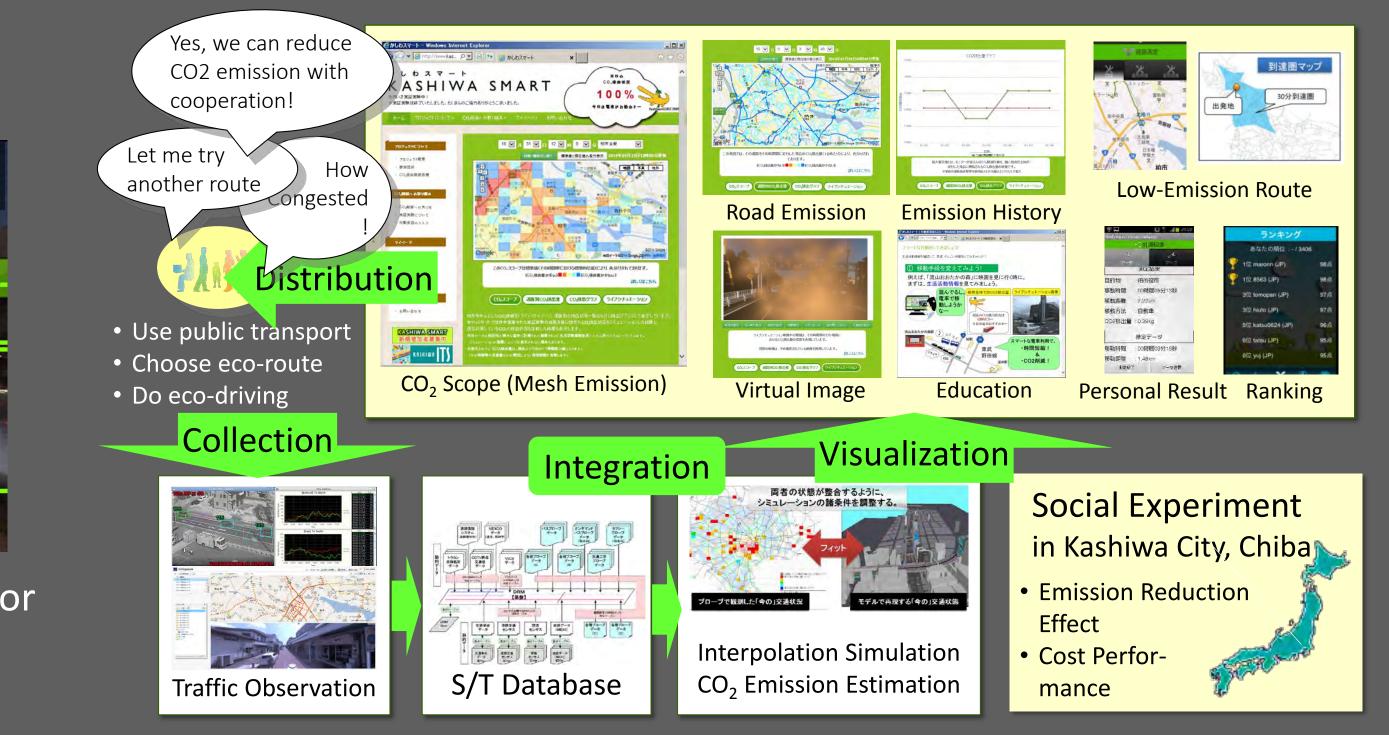


Hand signal recognition





System for Information Collection, Integration, Visualization, and Distribution

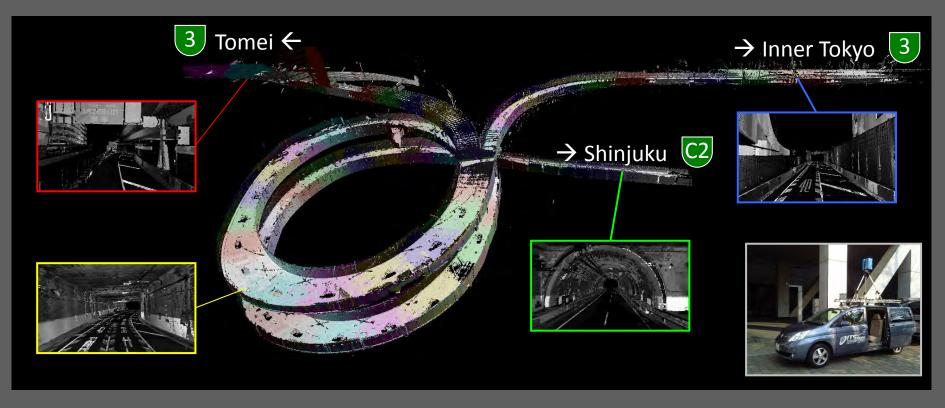


Detecting Unusual Events



Flood detection Data augmentation using CG and GAN

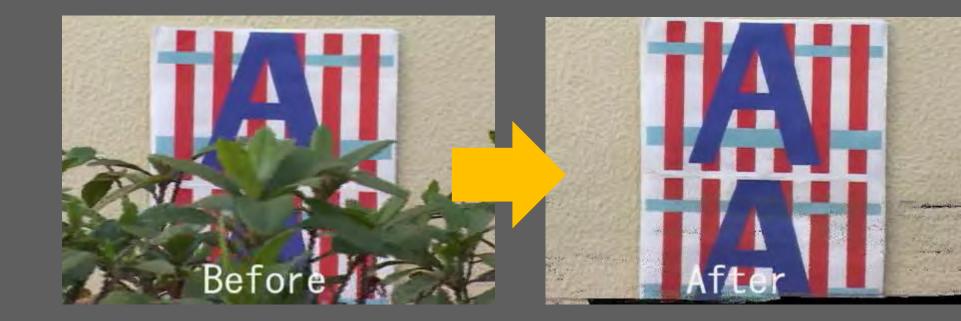
Sensing by Specialized Vehicle



▲ 3D Modeling of Road Structure

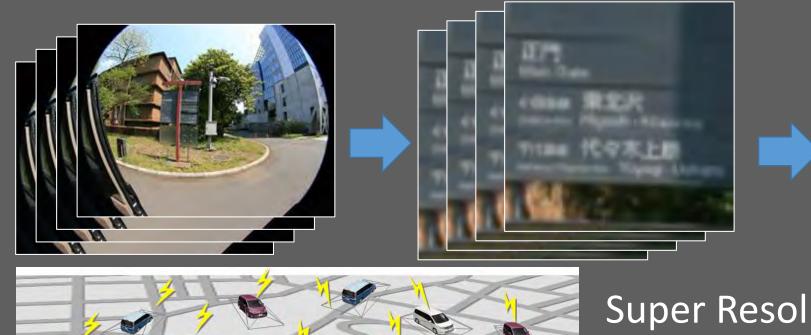
8% Reduction of CO2 Emission by Raising Awareness of Citizens: Regional Transport Information System for Promoting Eco-Friendly Travel Behavior

Space-time Video Processing



Separating foreground/ background by spacetime filtering

Sensing by General Vehicles





Super Resolution (Refinement) of Super Wide-Angle On-Vehicle Camera

Street Panorama before East Japan Earthquake Reconstructed from Driving Video Recorder



