

KAMIJO LAB .

[Enhanced Mobility and Location Service]



Center for Socio-Global Informatics

Applied Multimedia Information Processing

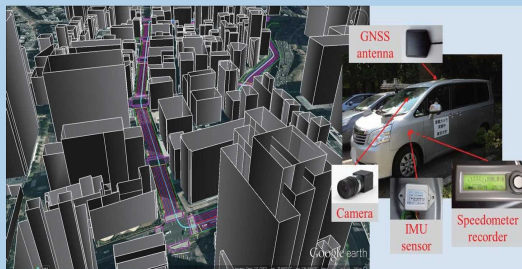
Emerging Design and Informatics Course

Department of Information and Communication Engineering

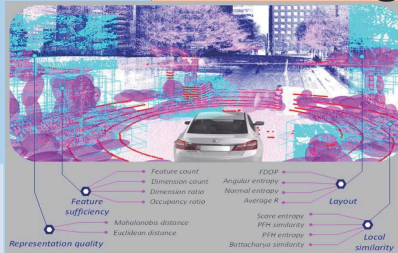
http://kmj.iis.u-tokyo.ac.jp/e_index.html

Autonomous Driving

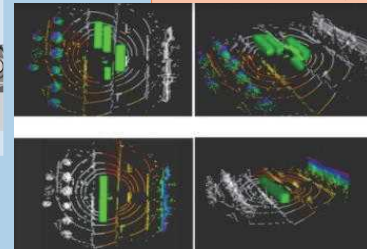
Self-localization of a car in an urban environment



Self-localization using sensor fusion

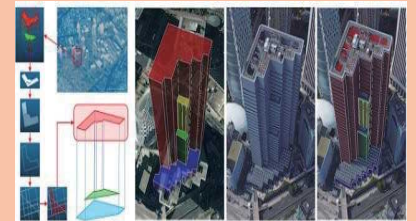


Evaluation of self-localization map

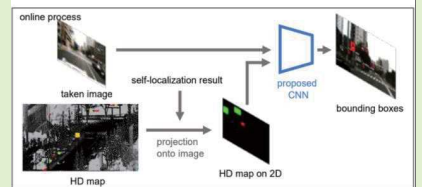
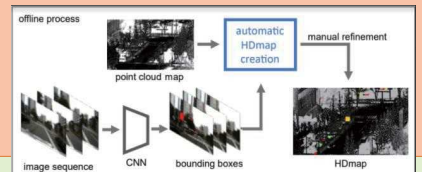


Self-localization using map

Generation of 3D map using 3D point cloud and GNSS



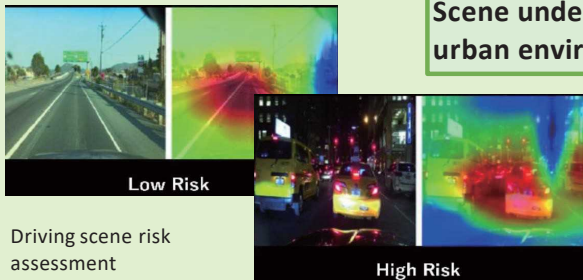
Generation of 3D map



Road object detection using map

Pedestrian detection and estimation

Scene understanding of urban environment

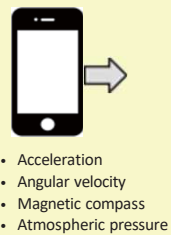


Driving scene risk assessment



Marketing

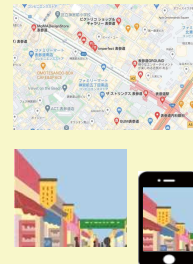
Mobile device-based services



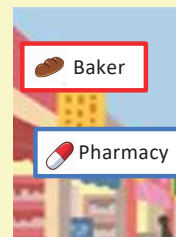
- Acceleration
- Angular velocity
- Magnetic compass
- Atmospheric pressure



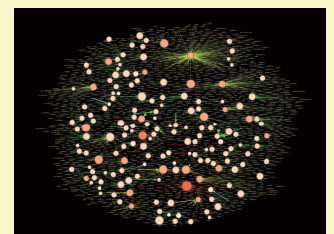
Indoor behavior understanding using smartphone sensors



Tourist service using location and photo data



Market strategy using SNS analysis



Instagram analysis using deep learning

At Kamijo laboratory, we conduct research on realizing safe mobility using location and scene understanding technologies, in addition to research on novel methods in the marketing field.

