Division of Mechanical Science and Engineering	Research field	Measurement and Control	Lab. ID MS15

Laboratory web site

Research subjects

In our laboratory, autonomous vehicle which can drive at urban area have been developed.

Master/Doctor course: Education policy, curriculum, typical activity in the laboratory

Students who belongs to our laboratory should report their research every week.

Daily life in the laboratory, etc.

In our laboratory, students can learn many research area related to autonomous vehicle, such as mobile robot, image processing and so on. Additionally, autonomous driving test under real urban environment using autonomous vehicle can be conducted by their own programs based on C/C++ language. Please join our laboratory if you are are interesting in autonomous vehicle.

Message or comments by the laboratory faculty staffs

In our laboratory, state-of-the-art of autonomous vehicle have been developed in our laboratory. Please come and join us if you are interested in autonomous vehicle.

Recent Master theses in these 3 years (+ more if appropriate)

year.month	Thesis title (including English translation of Japanese thesis title)
2017.3	Convolutional Neural Network Based Vehicle Turn Signal Recognition
2017.3	Surrounding Environment recognition for autonomous vehicles using Omni-directional Millimeter Wave Radar system
2016.3	Development of Path Plannning Algorithm for Autonomous Vehicle Running on Public Road
2016.3	Trajectory Tracking Control of the Automatic Vehicle Using Trajectory Information
2016.3	Localization of Autonomous Vehicle for Public Urban Road Driving
2015.3	Development of perception algorithms for autonomous vehicle
2015.3	Development of path following method for autonomous vehicle
2015.3	Development of path planning algorithm for autonomous vehicle
2014.3	Simultaneous localization and mapping using IMU and LIDAR
2014.3	Pedestrian detection based on stereovision
2013.3	Perception algorithm for Cooperative-ACC
2013.3	Prediction of dynamic object's trajectory and path planning for driver assistance
2013.3	Development of HILS system velocity control algorithm for autonomous vehicle

Recent Doctoral theses in these 3 years (+ more if appropriate)

year.month	Thesis title (including English translation of Japanese thesis title)

Laboratory mail address: SUGANUMA, Naoki <suganuma*at*se.kanazawa-u.ac.jp>