



K. NAKANO LAB.

Experiment/Experience

[Measurement and Control in Mobility]



Japanese Lab Page

Advanced Mobility Research Center

Mechanical and Biological Systems Control



English Lab Page

Interdisciplinary Information Studies, Mechanical Engineering

http://www.knakanolab.iis.u-tokyo.ac.jp/english/index_en.htm

While attention on automated driving of automobiles increases, aiming for augmentation of a driver, human oriented mobility engineering researches such as shared control, human-machine interface, and high level sensing have been conducted. The followings are topics of our researches.

1. Evaluation of Performance of Shared Control
2. Driver Model for Shared Control
3. Estimation of Drowsiness of Drivers with Haptic Interface
4. Evaluation of Interface for Advanced Driver-Assistance Systems
5. Steering Control Using sEMG
6. Effect of In-Vehicle Traffic Signal on Driving Behavior
7. Cooperation for Pilot Test of Automated Driving Bus
8. Dynamic Driving Task Fallback System for an Automated Vehicle Encountering Sensor Failure in Monitoring Driving Environment
9. Energy Harvesting in Rotating Tires
10. Slip Detection of a Railway Vehicle from Acceleration Measured Onboard
11. Estimation of Condition Between Rail and Wheel from Measured Values of a PQ Wheel
12. Active Control of Sound Transmission

