ITS Center THE UNIVERSITY OF TOKYO 先端モビリティ研究センター

SUDA LAB.

Driving simulator visit
Poster exhibition

[Dynamics and Control of Vehicle]

Institute of Industrial Science Advanced Mobility Research Center (ITS center)
Depertment of Mechanical and Biofunctional Systems
Mobility and Field Science

http://www.nozomi.iis.u-tokyo.ac.jp/

Specialized Field ●Dynamic Systems and Control

1. Study on control of human-vehicle-infrastructure system on advanced vehicle
2. Study on sustainable transport systems
3. Study on improvement of safety, ecological ability and comfort on transportation system

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Advanced control, multi-body dynamics and environmental physiology are applied to achieve sustainable mobility.

①Dynamic analysis of railway vehicle/ automobile/ bicycle by using multibody dynamics
②Development of Self-steering Truck and Power-Steering Bogie with Independently Rotating Wheel
③Development of electromagnetic damper for automobile
④Study on driving simulator and driver characteristics
⑤Study on Intelligent Transportation Systems (ITS)
⑥Contact mechanics between wheel/rail and tire/road
⑦Self powered active vibration control is applied to ship and vehicle
⑧Study on abnormal detection in human/ vehicle/ infrastructure systems
⑨Study on personal mobility vehicle
⑩Study on onboard flywheel system
⑪Energy-saving transportation system
⑫Evaluation of comfort