Vehicle Dynamic Control Strategy of Automated Driving

[For Safer and More Comfortable Automated Driving Technology]

Corporate Sponsored Research Programs

Dynamics and Control of Vehicle
Human-Machine Systems
Mechano-Informatic Mobility Engineering

Sponsored by
JTEKT Corporation

Vehicle Dynamic Control

Robust Control against Disturbance and Modeling Error

Prevent Over-Trust on AD/ADAS

Towards the Evolution of Automated Driving

Expand ODD (Operational Design Domain)

HMI Human-Machine Interface

HMI to Encourage Driver’s Spontaneous Behavioral Change

Driving simulator experiment

Vehicle Dynamic Function for Automated Driving (AD) fusing
- Human-Machine System
- AI and Other Advanced Technology

More Reliability in AD
Affluent Society where People Can Move Safely in Peace

Academic Contribution

Better performance (precision, response) in AD control

More Information
- Professor Y. SUEDA
- Project Prof. T. HIRAIKA
- Project Assoc. Prof. S. ONO
- Project Research Assoc. K. SHIMONO

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