## Graduate School of Systems and Information Engineering, Department of Intelligent Interaction Technologies Intelligent Control Systems Laboratory

[Laboratory] 3M409 [URL] http://www.ics.esys.tsukuba.ac.jp The Intelligent Vehicle Control System

## Background:

The dynamic characteristic of the fourwheeled vehicle is nonholonomic.

Position (x,y) and the direction are controlled by steering angle and speed v.

Driving is difficult.

## Purpose:

Configuration of gentle system to human who reduces human's operation load

- Copy of human's driving -
- **Detector** (Contact with obstacle etc.)

## Target setting

(Consideration of vehicle characteristic)

- Prediction of future's state and
- selection of driving operation





