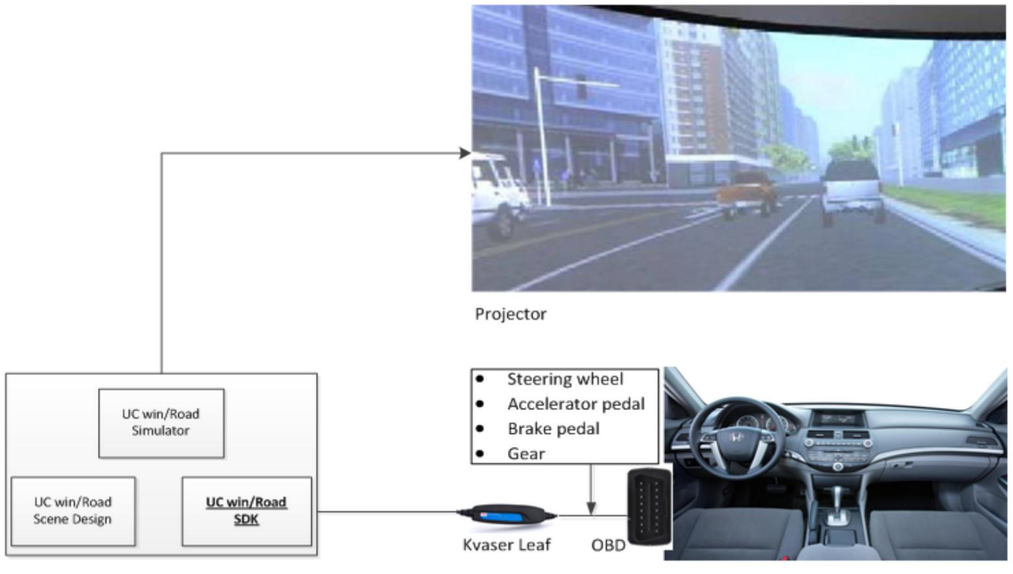
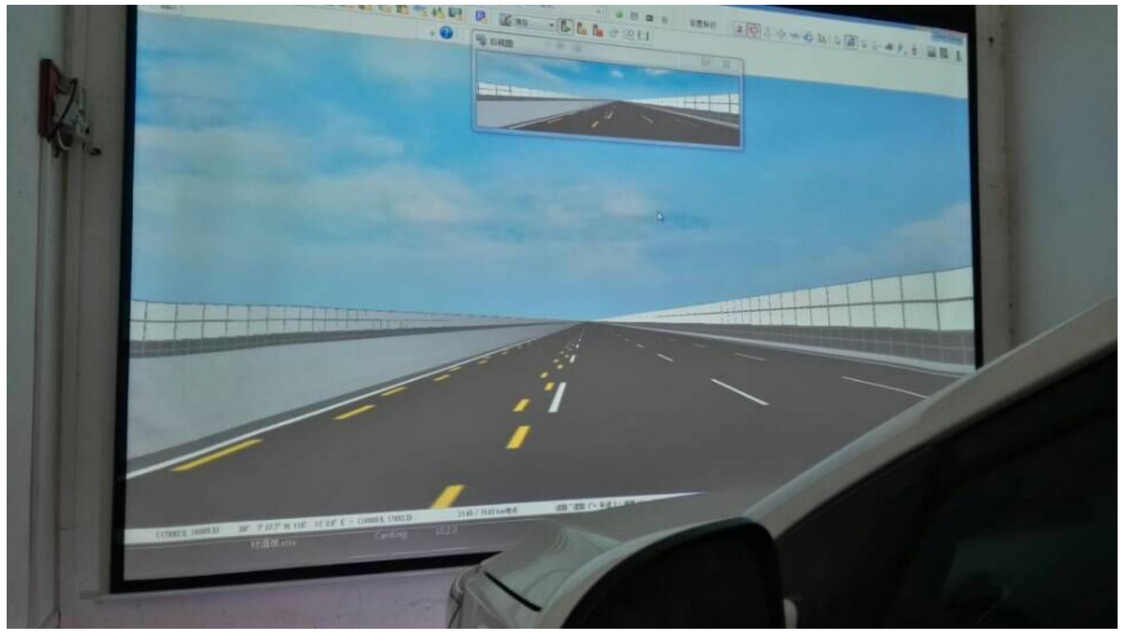
Driving Simulation with Real Vehicle Interface

Intelligent Transportation Research Center

Work Overveiw

In order to enhance the real sense of UC-win/road in the human-machine interface, we are going to development to connect UC-win/road software with the operation of real car to acquire real car operation. Specifically, through the CAN bus outputs a car steering wheel, accelerator pedal, brake pedal, gear and other information, The operation data are obtained by UC-win/road SDK, as input to the simulation software; during simulated driving, lift the car front wheel, start the car, driver operates the car in totally real human-machine environment to obtain stronger immersed sense.





Features

1. Output car's operation data (Steering wheel, accelerator pedal, brake pedal, gear) by CAN bus.
2. Obtain CAN bus signal and convert to USB port by Kvaser leaf.
3. Acquire data by UC-win/road, develop and configure setting by UC-win/road SDK.
4. Design scene for simulation; output by UC-win/road and show by the projector