Driving Support System

**Background**: Automatic Driving System
- User’s Uneasiness
- Danger in Complex Environment

**Purpose**: Operation Support that cooperates with human (Vehicle, Train etc.)

- Soft operation support of equipment
  - Gentle support to human
  - Support to cooperate with human
  - Acquisition of human’s knowledge

**Cooperative Driving Support System**
- Human-Vehicle Cooperative Controller
  - Fuzzy Instruction
  - Fuzzy Impedance Controller Based on Fuzzy Instruction

**Two-wheeled vehicle driving support**
- Application of intelligent MIMO control method
  - Operation knowledge of skilled rider
  - Reference setting support

**Equipment operation support system**
- Support system under dynamic environment
  - Imagination of future situation

**Operation Support that cooperates with human**
- Where is the target?
- What Operation?
- What Instruction?

**Device**
- Vehicle, Train etc.
- Operator
- Supporter
- State of vehicle
- External information
- Reference setting part
- Reference tracking part
- Input for vehicle
- Instructor (Skilled rider)
- User (Beginner rider)

**Driving supports**
- Slow down!!
- Voice Force