While attention on automated driving of automobiles increases, aiming for augmentation of a driver, human oriented mobility engineering researches such as shared control, human-machine interface, and high level sensing have been conducted. The followings are topics of our researches.

Effect evaluation of haptic guidance control
Haptic guidance control considering change of look-ahead distance
Haptic guidance control under passive fatigue
Estimation of drowsiness of drivers with haptic interface
Effect of Inter-vehicle traffic signals at signalized intersections on driving behaviors
Application of Inter-vehicle traffic signals at non-signalized intersections
Traffic control with inter-vehicle traffic signals and road signs
Energy harvesting in rotating tires using stochastic resonance
Measurement and control in railway vehicles
Independent component analysis applied to measurement of vehicle vibration