Benefits

• Driving Safety Improvement by 2 newly developed technologies: B) Cognitive distraction detection with very light algorithm.

Technical Advantages

- Based on our human subject researches, in drowsy condition.
- B) Detect facial features when driver is thinking about something.

Applications



A) Drowsiness estimation by using posture information even without eye detection.

A) Focus on unconscious muscle relaxation caused by central nervous system

• Newly developed technologies enable to detect drowsiness and cognitive distraction by camera installed at various positions (center display, a-pillar, rear-view mirror, etc.)

Drowsiness Estimation and Cognitive Distraction Detection Contribute to reduce traffic accidents based on our expertise on human research



Model size	Processing
37 x 104 [KB]	20 x 10 ⁷ [KMAC/s]
26 [KB] (size 1/14,000)	11 [KMAC/s] (processing 1/19M)