

### **Basic Study on Assessment of State of the Drivers Based on Physiological Indices**

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With a view to support to the drivers for preventing human-error induced accidents, an experimental environment (physiological indices measurement system) was designed incorporating various cutting edge measurement technologies, which makes it possible to measure variations in the physiological state of the drivers when carrying out driving tasks. Some basic tests were conducted using the measurement system on an ordinary adult placed in a driving simulator. Given disparities in the results of the physiological indices from person to person, it has been difficult up until now to use the indices quantitatively. However, it has been confirmed that there appears to be a way to reproduce typical variation patterns based on a combination of multiple indices relatively easy to measure, such as heart rate, breathing etc.