A shirt using a sensing fabric developed in a Toray-NTT joint project enables long-term acquisition of vital data and real-time monitoring during sports. This technology will support medical diagnosis, personal healthcare, and sports training.

Features

- Long-term acquisition of vital data including heart rate, electrocardiogram, and 3 axis accelerometer is possible without interfering with everyday life.
- Analysis of acquired data is applied to evaluation of not only physical but also mental conditions such as relaxation level and sleep depth.
- Vital data are sent to a smartphone wirelessly and also uploaded to the cloud for services.
- SDK/API is available for application development based on vital data and its analysis.

Application Scenarios

- Personal advice service, such as for sports training and sleep based on real-time analysis of heart rate, waveform, and accelerometer data
- Healthcare (management of fatigue, stress, and heat-related illness) and support for medical diagnosis based on continuous monitoring of biological signals in future

※ ’hitoe’ is the trademark of sensing fabric developed in a Toray-NTT joint project.