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Japan starts joint trials for millimeter-wave sensor to detect falls of elderly patients

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For reducing the risk of serious injuries such as bone fractures



Fujitsu and Wakayama Medical University in Japan have announced the start of joint trials of a technology to support nurses and caregivers in visually monitoring patients in privacy-sensitive contexts, including hospital rooms and nursing facilities.

The technology leverages Fujitsu's technique for accurately estimating postures of the human body using a millimeter-wave sensor and Fujitsu's "Actlyzer" AI technology for analysis of complex human behaviors. Using a millimeter-wave sensor to gather point cloud data and no cameras, Fujitsu's technology will help to support nurses and caregivers to monitor patients and achieve a faster response to emergency situations including falls and possible serious injuries while ensuring patients' privacy.

Fujitsu will analyse data obtained through the trials and further refine its technology based on analysis results evaluated by Wakayama Medical University, drawing on the Wakayama Medical University's knowledge from the medical field.

Based on these results, the two parties aim to offer a millimeter-wave sensor service for privacy-conscious monitoring to hospitals and nursing facilities in fiscal 2023. Ultimately, the two parties hope to contribute to enrich people's lives by realising an environment in which elderly people can enjoy greater independence and privacy without sacrificing their personal safety.