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Fujitsu, Tohoku University embark on strategic alliance for preventive healthcare

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Development of digital twin technology to optimize decisions and processes



Japan-based Fujitsu and Tohoku University have announced the start of a strategic alliance to accelerate the shift towards preventive healthcare and the realization of a 'Well-being Society'.

The aim is to promote initiatives that allow individuals to work towards their own personal health image and to contribute to the realization of a framework where a variety of medical services are provided in an organized way throughout the whole community in order to contribute to the early detection and prevention of frailty spirals, a syndrome in which health conditions deteriorate due to a negative cycle caused by a variety of causes such as a lack of physical exercise and malnutrition.

Tohoku University and Fujitsu will develop an artificial intelligent (AI) model to detect even small anomalies that can be indicators for diseases from medical data in order to realize efficient diagnosis support in the medical field. The two parties will apply this AI model to health care data including individual patients' daily diet and exercise data to inform patients about changes in their health conditions and encourage early health examinations at medical institutions.

In addition to the development of a new data base for analyzing large amounts of medical data and health examination information that exist in various data formats as well as personal daily lifelogs, the two parties will further develop a new data analysis method for solving social issues by structuring accumulated data into a data format that can be analyzed.