Diagnosing Dementia Using Smart Chair, Wearable Device, and Testing Apps

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ABSTRACT
Early and reliable diagnosis of dementia can help patients and their caretakers to take timely actions, in terms of treatments and effective future planning. Sedentary positions can reveal a lot about patients’ bodily movements, and so we use a smart chair installed with force sensitive resistors that record pressure points of a patient while taking a screening test. We expect that using combination of a smart chair, a wrist device, and screening test on an iPad, it is possible to diagnose most kinds of dementia earlier than the current methods with reliability.

*The publication of this abstract is intended for educational purposes only from an internal symposium and its content has not been peer-reviewed.