

Alzheimers Disease & Dementia

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Wearable devices for Alzheimer patients

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The rising number of elderly persons with cognitive impairment who roam raises safety issues. Alzheimer's disease is common form of dementia and characterized by a progressive loss of cognitive processes, such as short-term memory and spatial cognition. Aside from memory problems, a person with this disease has trouble with visual processing and even recognizing and identifying loved ones. Moreover, Alzheimer's disease puts a patient's entire family under stress. It could even be fatal, because people who have the condition may stroll right into danger without realizing it.

The fact that the patient must be observed 24 hours a day, seven days a week makes it difficult for the caregivers to give up their vocation in order to care for the patient. Recent technological advancements have made it feasible to connect everything on the planet to each other via the internet, this is what the wearable devices, sensors, wireless network, internet-of-thing nowadays, has enabled communication among the devices and gathering and storage of vast amount of data that is deemed very essential and relevant information.

And in this age of technological advancement using detecting gadgets and new innovations on wearable technologies aims to provide a more useful strategy to screening and tracking patients. Wearables hold a lot of promise for enhancing the quality of life of Alzheimer's patients while also reducing the burden on healthcare and lowering operational costs. We discuss the various tracking systems and devices available today, as well as their benefits and drawbacks.

Biography

Gaurav Gupta is an acclaimed Senior IEEE Member and currently serving as an Assistant Professor at Yogananda School of Artificial Intelligence Computers and Data Science, Faculty of Engineering & Technology, Shoolini University, Solan (HP) India. He is certified Oracle Database administrator as well AWS Cloud certified Educator. He holds 15 years of teaching experience, and his academic contributions includes 25 international scientific papers, 15 reviews, 5 book reviews, 7 book chapters, 15 edited and authored books published by IEEE, Elsevier, Springer Nature, Taylor & Francis, and Wiley as well as conference papers, popular science articles. He also published 12+ books with national and international publishing house. He has also organized 4 special sessions, 2 workshops, 2 FDP's. His area of interest is Machine Learning, IoT and Cloud Computing. He is an active member of the Institute of Electrical and Electronics Engineers (IEEE) Senior Member, IEEE Computer Society, IEEE Young Professional, International Association of Engineers (IAENG).