

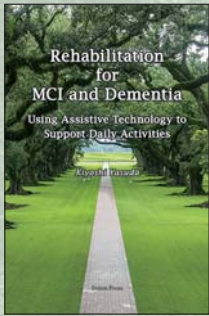


Union Press

Rehabilitation for MCI and Dementia Using Assistive Technology to Support Daily Activities

Book Information

This book is a gift to all for inspiring new and future assistive technology interventions.



Rehabilitation for MCI and Dementia: Using Assistive Technology to Support Daily Activities

Author: Kiyoshi Yasuda
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About this book

The author, a speech-language pathologist at a memory clinic, believes that the essence of MCI/dementia symptoms is "information impairment," and that "The Strategy of Providing Information in Advance" using Assistive Technologies (ATs) is critical. In applying this strategy, the author succeeded in solving some responsive behaviors such as anger, getting lost, and asking repetitive questions by using electronic "Middle-Tech" ATs, such as a Sony IC Recorder and Voice guidance. Although non-electronic Low-Tech ATs such as diaries and wearable memo-pads are indispensable for supporting persons with MCI/dementia, they have been mostly overlooked and rarely implemented. Thus, the author created various new Low-Tech ATs. Other High-Tech ATs include a conversation system with anime-agents and a smart mind-sensing system as well as dementia-assistance dogs carrying ATs. For the healthy elderly, two "List of Memory Strategies" are included in the Appendix. As a variety of ATs and interventions have become available, Assistive Technology (AT) for the rehabilitation of MCI/dementia has been classified into Low-, Middle-, and High-Tech ATs. A wealth of application ideas using ATs introduced in this book will enhance the quality of rehabilitation services, inspiring improved coping methods for individuals with MCI/dementia, and future studies by researchers and engineers.

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About the author

Kiyoshi Yasuda is a speech-language pathologist. While working at Rehabilitation Department in Chiba Rosai Hospital (1983–2018), the author worked as a visiting research fellow at ATR Institute International: Intelligent Robotics and Communication Laboratories (2003–2007), and as a specially appointed professor at Kyoto Institute of Technology (2008–2016). He is a visiting professor at Osaka Institute of Technology (since 2017), and a specially appointed visiting lecturer at Kyoto Prefectural University of Medicine (since 2018). He also works at the Saiga Clinic in Ichihara city. The title of his dissertation for the Doctor of Philosophy was "Comprehension of discourse and proper names by people with aphasia." The themes of his research include: support for persons with aphasia and dysphagia, development of Low-Tech and Middle-Tec assistive technology (AT) for persons with memory impairment and MCI/dementia, and development of High-Tech AT in collaboration with engineering researchers.

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