

The River Publishers Series in Biomedical Engineering

Parkinson's Disease Management through ICT: The REMPARK Approach

Editors:

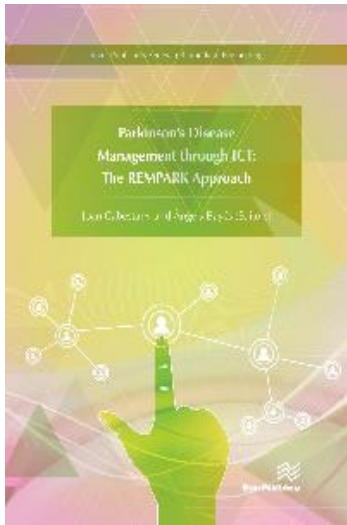
Joan Cabestany, Universitat Politècnica de Catalunya UPC, Barcelona, Spain

Àngels Bayés, Uparkinson Teknon, Grupo Hospitalario Quirón, Barcelona, Spain

ISBN: 9788793519466

Available From: July 2017

Price: € 90.00



Description:

Parkinson's Disease (PD) is a neurodegenerative disorder that manifests with motor and non-motor symptoms. PD treatment is symptomatic and tries to alleviate the associated symptoms through an adjustment of the medication. As the disease is evolving and this evolution is patient specific, it could be very difficult to properly manage the disease.

The current available technology (electronics, communication, computing, etc.), correctly combined with wearables, can be of great use for obtaining and processing useful information for both clinicians and patients allowing them to become actively involved in their condition.

Parkinson's Disease Management through ICT: The REMPARK Approach presents the work done, main results and conclusions of the REMPARK project (2011 - 2015) funded by the European Union under contract FP7-ICT-2011-7-287677. REMPARK system was proposed and developed as a real Personal Health Device for the Remote and Autonomous Management of Parkinson's Disease, composed of different levels of interaction with the patient, clinician and carers, and integrating a set of interconnected sub-systems: sensor, auditory cueing, Smartphone and server. The sensor subsystem, using embedded algorithmics, is able to detect the motor symptoms associated with PD in real time. This information, sent through the Smartphone to the REMPARK server, is used for an efficient management of the disease.

Implementation of REMPARK will increase the independence and Quality of Life of patients; and improve their disease management, treatment and rehabilitation.

Contact River Publishers

Phone: +13-176899634, +31-(0)-6-46573673
Email: customercare@riverpublishers.com
www.riverpublishers.com

The Netherlands Office

Lange Geer 44,
2611 PW Delft
The Netherlands

Denmark Office

Alsbjergvej 10
9260 Gistrup
Denmark