

# Assistive Technologies for Assessment and Recovery of Neurological Impairments

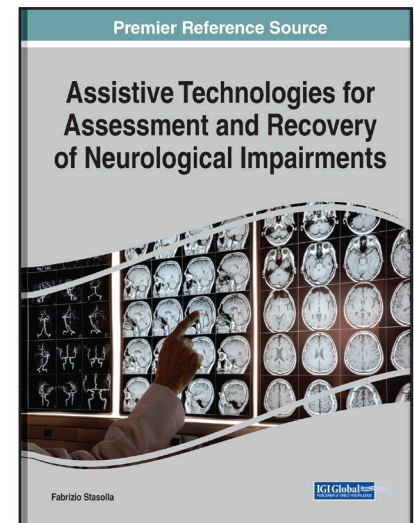
Part of the Advances in Medical Technologies and Clinical Practice Book Series

Fabrizio Stasolla (Giustino Fortunato University of Benevento, Italy)

## Description:

People with neurological disorders may experience significant problems, isolation, detachment, and passivity while dealing with environmental requests. They constantly rely on caregivers and family assistance, which can create negative outcomes on their quality of life. An emerging way to overcome these issues is assistive technology-based interventions (AT). AT-based programs are designed to fill the gap between human/individual capacities or skills and environmental requests. These technologies can also bring about independence and self-determination and provide people with neurological disorders an active role, positive participation, and an enhanced status in being able to achieve functional daily activities by reducing the roles of their families and caregivers. The positive impacts of this technology are an important area of research, and its usage for neurological disorders is critical for the assessment and recovery of patients.

**Assistive Technologies for Assessment and Recovery of Neurological Impairments** explores the use of AT-based programs for promoting independence and self-determination of individuals with neurological disorders. The chapters discuss AT-based interventions in detail with the specific technologies that are being used, the positive effects on patients, and evidence-based practices. This book also focuses on specific technologies such as virtual reality (VR) setups and augmented reality (AR) as valid ecological environments for patients that ensure methodological control and behavioral tracking for both assessment and rehabilitation purposes. This book is essential for occupational therapists, speech therapists, physiotherapists, neurologists, caregivers, psychologists, practitioners, medical professionals, medical technologists, IT consultants, academicians, and students interested in assistive technology interventions for people with neurological impairments.



**ISBN:** 9781799874300

**Pages:** 305

**Copyright:** 2021

**Release Date:** June, 2021

**Hardcover:** \$295.00

**E-Book:** \$295.00

**Hardcover +  
E-Book:** \$355.00

## Topics Covered:

Adaptive Behavior  
Alzheimer's Disease  
Assistive Technologies  
Augmentative and Alternative  
Communication

Autism Spectrum Disorder  
Intellectual Disabilities  
Neurodegenerative Disorders  
Neurological Assessment  
Neurological Impairments

Neuroscience  
Recovery and Rehabilitation  
Rett Syndrome  
Virtual and Augmented Reality

**Subject:** Medical, Healthcare, and Life Sciences

**Classification:** Edited Reference

**Readership Level:** Advanced-Academic Level  
(Research Recommended)

**Research Suitable for:** Advanced Undergraduate  
Students; Graduate Students; Researchers;  
Academicians; Professionals; Practitioners

### Order Information

Phone: 717-533-8845 x100

Toll Free: 1-866-342-6657

Fax: 717-533-8661 or 717-533-7115

Online Bookstore: [www.igi-global.com](http://www.igi-global.com)

Mailing Address: 701 East Chocolate Avenue, Hershey, PA 17033, USA