



Z. Zenn Bien, Dimitar Stefanov (Eds.)

Advances in Rehabilitation Robotics

Human-friendly Technologies on Movement Assistance and Restoration for People with Disabilities

Series: Lecture Notes in Control and Information Sciences

- Latest achievements in the field of rehabilitation robotics and assistive technology
- Reference for teaching on mechatronic devices for rehabilitation
- Representative selection of latest trends in rehabilitations robotics

One of the major application targets of service robots is to use them as assistive devices for rehabilitation. This book introduces some latest achievements in the field of rehabilitation robotics and assistive technology for people with disabilities and aged people. The book contains results from both theoretical and experimental works and reviews on some new advanced rehabilitation devices which has been recently transferred to the industry. Significant parts of the book are devoted to the assessment of new rehabilitation technologies, the evaluation of prototype devices with end-users, the safety of rehabilitation robots, and robot-assisted neurorehabilitation. The book is a representative selection of the latest trends in rehabilitation robotics and can be used as a reference for teaching on mechatronic devices for rehabilitation.

2004, XXVII, 444 p.

Printed book

Softcover

249,99 € | £219.99 | \$299.99

^[1]267,49 € (D) | 274,99 € (A) | CHF

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eBook

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