

Biosystems & Biorobotics

José L Pons  
Diego Torricelli *Editors*


# Emerging Therapies in Neurorehabilitation

  
**SSNR**  
SUMMER SCHOOL ON  
NEUROREHABILITATION

 Springer

# Emerging Therapies In Neurorehabilitation Biosystems Biorobotics

**Habib M. Fardoun,Ahlam A. M.  
Hassan,M. Elena de la Guía**



## **Emerging Therapies In Neurorehabilitation Biosystems Biorobotics:**

Emerging Therapies in Neurorehabilitation José L Pons, Diego Torricelli, 2013-08-13 This book reports on the latest technological and clinical advances in the field of neurorehabilitation. It is however much more than a conventional survey of the state of the art in neurorehabilitation technologies and therapies. It was formed on the basis of a week of lively discussions between curious PhD students and leading research experts during the summer school on neurorehabilitation SSNR2012 September 16-21 in Nuvalos Zaragoza Spain. Its unconventional format makes it a perfect guide for all PhD students, researchers and professionals interested in gaining a multidisciplinary perspective on current and future neurorehabilitation scenarios. The book covers various aspects of neurorehabilitation research and practice organized into different parts. The first part discusses a selection of common impairments affecting brain function such as stroke, cerebral palsy and Parkinson's disease. The second deals with both spinal cord and brain plasticity. The third part covers the most recent rehabilitation and diagnostics technologies including robotics, neuroprostheses, brain-machine interfaces and electromyography systems. Practical examples and case studies related to the application of some of the latest techniques in realistic clinical scenarios are covered in the fourth part.

**Emerging Therapies in Neurorehabilitation II** José L. Pons, Rafael Raya, José González, 2015-10-30 This book reports on the latest technological and clinical advances in the field of neurorehabilitation. It is however much more than a conventional survey of the state of the art in neurorehabilitation technologies and therapies. It was written on the basis of a week of lively discussions between PhD students and leading research experts during the Summer School on Neurorehabilitation SSNR2014 held September 15-19 in Baiona Spain. Its unconventional format makes it a perfect guide for all PhD students, researchers and professionals interested in gaining a multidisciplinary perspective on current and future neurorehabilitation scenarios. The book addresses various aspects of neurorehabilitation research and practice including a selection of common impairments affecting CNS function such as stroke and spinal cord injury as well as cutting edge rehabilitation and diagnostics technologies including robotics, neuroprosthetics, brain-machine interfaces and neuromodulation.

*Emerging Therapies in Neurorehabilitation III* Jose L. Pons, Dario Farina, Jesus Tornero, 2025-05-03 This book offers a timely snapshot of research of biomedical and neural engineering and their applications in neurorehabilitation. It gathers peer-reviewed contributions to three different conference editions of the series Summer School on Neurorehabilitation SSNR which were held in Baiona Spain on June 12-17 2022, June 11-16 2023 and June 16-21 2024 respectively. They report on applications of cutting edge neuroprosthetic devices, robotic interfaces and related technologies to assist patients with neurologic and musculoskeletal conditions such as stroke, spinal cord injury and amputation among others. A special feature consists of the fact that both technological and clinical issues are discussed, providing readers with a multidisciplinary perspective on neurorehabilitation research and practice.

*Emerging Theory and Practice in Neuroprosthetics* Naik, Ganesh R., Guo, Yina, 2014-05-31 Neuroprosthetics is a fast growing area that

brings together the fields of biomedical engineering and neuroscience as a means to interface the neural system directly to prostheses Advancing research and applications in this field can assist in successfully restoring motor sensory and cognitive functions Emerging Theory and Practice in Neuroprosthetics brings together the most up to date research surrounding neuroprosthetics advances and applications Presenting several new results concepts and further developments in the area of neuroprosthetics this book is an essential publication for researchers upper level students engineers and medical practitioners

*Converging Clinical and Engineering Research on Neurorehabilitation II* Jaime Ibáñez, José González-Vargas, José María Azorín, Metin Akay, José Luis Pons, 2016-10-12 The book reports on advanced topics in the areas of neurorehabilitation research and practice It focuses on new methods for interfacing the human nervous system with electronic and mechatronic systems to restore or compensate impaired neural functions Importantly the book merges different perspectives such as the clinical neurophysiological and bioengineering ones to promote feed and encourage collaborations between clinicians neuroscientists and engineers Based on the 2016 International Conference on Neurorehabilitation ICNR 2016 held on October 18 21 2016 in Segovia Spain this book covers various aspects of neurorehabilitation research and practice including new insights into biomechanics brain physiology neuroplasticity and brain damages and diseases as well as innovative methods and technologies for studying and or recovering brain function from data mining to interface technologies and neuroprosthetics In this way it offers a concise yet comprehensive reference guide to neurosurgeons rehabilitation physicians neurologists and bioengineers Moreover by highlighting current challenges in understanding brain diseases as well as in the available technologies and their implementation the book is also expected to foster new collaborations between the different groups thus stimulating new ideas and research directions

**Neurorehabilitation Technology** David J. Reinkensmeyer, Volker Dietz, 2016-08-03 This revised updated second edition provides an accessible practical overview of major areas of technical development and clinical application in the field of neurorehabilitation movement therapy The initial section provides a rationale for technology application in movement therapy by summarizing recent findings in neuroplasticity and motor learning The following section then explains the state of the art in human machine interaction requirements for clinical rehabilitation practice Subsequent sections describe the ongoing revolution in robotic therapy for upper extremity movement and for walking and then describe other emerging technologies including electrical stimulation virtual reality wearable sensors and brain computer interfaces The promises and limitations of these technologies in neurorehabilitation are discussed Throughout the book the chapters provide detailed practical information on state of the art clinical applications of these devices following stroke spinal cord injury and other neurologic disorders The text is illustrated throughout with photographs and schematic diagrams which serve to clarify the information for the reader Neurorehabilitation Technology Second Edition is a valuable resource for neurologists biomedical engineers roboticists rehabilitation specialists physiotherapists occupational therapists and those training in these fields

Human Digital Twins for Medical and Product Engineering Jörg Miehling, Anne D. Koelewijn, Julie Choisine, 2024-10-25

The current trend towards digitalization of human centred engineering processes in conjunction with advances in biomechanistic modelling high performance computing artificial intelligence AI and sensor technology leads to unprecedented transformation potentials in medical product and human factors engineering for the enhancement of human technology interaction as well as medical treatment outcomes Biomechanical simulations hold high potential by revealing the processes and inner strain conditions of the human body For reliable simulation results a model suitable for the application and a way to measure estimate predict the human motion behaviour and the interaction with the environment and or interacting technology are necessary In this context we refer to a human digital twin as an extension and connection of participant person specific biomechanical human models with data streams from clinical observation operational use of technology or daily life Each human digital twin is an instance digitally representing a specific person in healthy or pathological state suitable for the specified application

Handbook of Research on Collaborative Teaching Practice in Virtual Learning Environments Panconesi, Gianni, Guida, Maria, 2017-05-17 Modern technology has enhanced many aspects of life including classroom education By offering virtual learning experiences educational systems can become more efficient and effective at teaching the student population The Handbook of Research on Collaborative Teaching Practice in Virtual Learning Environments highlights program developments in the realm of digital worlds in educational settings Featuring pedagogical methods and topics relating to cooperative learning hands on curriculum and meta cognitive dimensions this publication is a critical reference source for pre service and in service teachers school administrators higher education faculty and researchers interested in virtual reality incorporation in the classroom

Digital Play Therapy Jessica Stone, 2021-12-28 The newly updated Digital Play Therapy focuses on the responsible integration of technology into play therapy during and after the COVID 19 pandemic With respect for the many different modalities and approaches under the play therapy umbrella this book incorporates therapist fundamentals play therapy tenets and practical information for the responsible integration of digital tools into play therapy treatment All chapters have been updated and new chapters discuss strategies for using teletherapy effectively during and beyond the pandemic This revised edition provides a solid grounding both for clinicians who are brand new to the incorporation of digital tools as well as for those who have already begun to witness digital play therapy's power

Virtual and Augmented Reality: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2018-03-02 Virtual and augmented reality is the next frontier of technological innovation As technology exponentially evolves so do the ways in which humans interact and depend upon it Virtual and Augmented Reality Concepts Methodologies Tools and Applications is a comprehensive reference source for the latest scholarly material on the trends techniques and uses of virtual and augmented reality in various fields and examines the benefits and challenges of these developments Highlighting a range of pertinent topics such as human computer interaction digital self identity and

virtual reconstruction this multi volume book is ideally designed for researchers academics professionals theorists students and practitioners interested in emerging technology applications across the digital plane *Advances on Mechanics, Design Engineering and Manufacturing II* Francisco Cavas-Martínez, Benoit Eynard, Francisco J. Fernández Cañavate, Daniel G. Fernández-Pacheco, Paz Morer, Vincenzo Nigrelli, 2019-04-27 This book contains the papers presented at the International Joint Conference on Mechanics Design Engineering and Advanced Manufacturing JCM 2018 held on 20-22 June 2018 in Cartagena Spain It reports on cutting edge topics in product design and manufacturing such as industrial methods for integrated product and process design innovative design and computer aided design Further topics covered include virtual simulation and reverse engineering additive manufacturing product manufacturing engineering methods in medicine and education representation techniques and nautical aeronautics and aerospace design and modeling The book is divided into six main sections reflecting the focus and primary themes of the conference The contributions presented here will not only provide researchers engineers and experts in a range of industrial engineering subfields with extensive information to support their daily work they are also intended to stimulate new research directions advanced applications of the methods discussed and future interdisciplinary collaborations

**Replace, Repair, Restore, Relieve - Bridging Clinical and Engineering Solutions in Neurorehabilitation** Winnie Jensen, Ole Kæseler Andersen, Metin Akay, 2014-06-17 The book is the proceedings of the 2nd International Conference on NeuroRehabilitation ICNR 2014 held 24th-26th June 2014 in Aalborg Denmark The conference featured the latest highlights in the emerging and interdisciplinary field of neural rehabilitation engineering and identified important healthcare challenges the scientific community will be faced with in the coming years Edited and written by leading experts in the field the book includes keynote papers regular conference papers and contributions to special and innovation sessions covering the following main topics neuro rehabilitation applications and solutions for restoring impaired neurological functions cutting edge technologies and methods in neuro rehabilitation and translational challenges in neuro rehabilitation Thanks to its highly interdisciplinary approach the book will not only be a highly relevant reference guide for academic researchers engineers neurophysiologists neuroscientists physicians and physiotherapists working at the forefront of their field but will also help to act as bridge between the scientific engineering and medical communities

**Myofascial Induction™ Volume 1: The Upper Body** Andrzej Pilat, 2022-01-03 Myofascial Induction™ An anatomical approach to the treatment of fascial dysfunction describes the properties of the fascial network and provides therapeutic solutions for different types of fascial dysfunction The material is presented in two volumes Volume 1 analyzes in depth the theoretical aspects related to fascia and focuses on the therapeutic procedures of Myofascial Induction Therapy MIT™ for the upper body Volume 2 summarizes and expands on the theoretical aspects and explains the therapeutic procedures of MIT for the lower body Volume 1 is divided into two parts Part 1 The Science and Principles of Myofascial Induction and Part 2 Practical Applications of Myofascial Induction the Upper Body Part 1 defines the fascia as a

complex biological system before discussing its multiple characteristics Part 2 is the practical part Here the reader will find a wide range of manual therapeutic procedures which can be selected and used to build up the MIT treatments These processes are explained in detail and are richly illustrated in full color with diagrams and photographs of their practical application in the body and in the treated samples of dissected tissues Each chapter opens with an introduction offering to the reader some philosophical background as a reminder that philosophy allows us to relate the strictly scientific with the empirical Praxis and empiricism are the basis of science The author invites you to join the scientific fascial adventure that allows us to uncover areas of knowledge which may have been forgotten or which are not yet recognized as being related and which might still reveal relevant information Once discovered these facts can help us to better understand the kinesis of our body and so help the individual to change their body image and to improve their quality of life

**New Technologies to Improve Patient Rehabilitation** Habib M. Fardoun,Ahlam A. M. Hassan,M. Elena de la Guía,2019-03-28 This book constitutes the thoroughly refereed proceedings of the 4th International Workshop on ICTs for Improving Patients Rehabilitation Research Techniques REHAB 2016 held in Lisbon Portugal in October 2016 The 10 revised full papers presented were carefully reviewed and selected from 33 submissions The papers explore how technology can contribute toward smarter and effective rehabilitation methods

*Myofascial Induction™ 2-volume set* Andrzej Pilat,2023-10-18 In these unique and lavishly illustrated books and their accompanying videos the practitioner can for the first time see the effect of manual interventions on underlying body structures Using over 700 photographs and diagrams these volumes reveal fascial architecture to the reader in all its glory and sets out the principles and practice of Myofascial Induction The author's own teaching and practice provide the material that explains and illustrates fascial anatomy and therapeutic procedures The beautiful full color photographs and videos of dissections of non embalmed cadavers show the continuity of the fascial system and its dynamic links to other body systems By demonstrating the effect that therapy has on body structures the book will be of interest and practical value to the physical therapist osteopath chiropractor physician and all bodyworkers dedicated to manual therapy as well as to researchers wishing to build on this ground breaking material Volume 1 covers the science and principles of Myofascial Induction and its applications to the upper body Volume 2 addresses its applications to the thoracic and lumbar spine the pelvis and the lower body

*Converging Clinical and Engineering Research on Neurorehabilitation IV* Diego Torricelli,Metin Akay,Jose L. Pons,2021-10-01 The book reports on advanced topics in the areas of neurorehabilitation research and practice It focuses on new methods for interfacing the human nervous system with electronic and mechatronic systems to restore or compensate impaired neural functions Importantly the book merges different perspectives such as the clinical neurophysiological and bioengineering ones to promote feed and encourage collaborations between clinicians neuroscientists and engineers Based on the 2020 International Conference on Neurorehabilitation ICNR 2020 held online on October 13 16 2020 this book covers various aspects of neurorehabilitation research and practice including new insights into

biomechanics brain physiology neuroplasticity and brain damages and diseases as well as innovative methods and technologies for studying and or recovering brain function from data mining to interface technologies and neuroprosthetics In this way it offers a concise yet comprehensive reference guide to neurosurgeons rehabilitation physicians neurologists and bioengineers Moreover by highlighting current challenges in understanding brain diseases as well as in the available technologies and their implementation the book is also expected to foster new collaborations between the different groups thus stimulating new ideas and research directions

**Challenging the Functional Connectivity Disruption in Neurodegenerative Diseases: New Therapeutic Perspectives through Non-Invasive Neuromodulation and Cutting-Edge Technologies**

Giancarlo Zito,Takashi Hanakawa,Luca Berdondini,Lorenzo Masia,Lorenzo Natale,2018-10-05 The neurorehabilitation field is increasingly focused on understanding how to efficiently revert the effects that acute i e stroke or traumatic brain injury or chronic i e neurodegenerative diseases insults play either on small or large scale networks encompassing motor sensory and cognitive domains The link between the disrupted neuronal pulse generators and their effectors is being re shaped through a wide scenario that embraces biorobotics robot aided rehabilitation non invasive neurostimulation nanoprosthetics and neuroengineering For the past decade and at an amazing speed large investments and efforts allowed enthusiastic and only apparently heterogeneous researchers to borrow theories from neurophysiology pharmacology physics and quantum mechanics in order to generate together highly sophisticated tools that restore resemble or even substitute the basic biological architecture The idea of actually reverting weakened functions and or replacing the faulty parts either of the human body or the central and peripheral nervous system is becoming a new reality opening a fascinating era in this field In this Research Topic several researchers showed how the above principles became reality from theory to the bedside of patients providing full explanations of the whole mechanistic processes and how they were implemented up to the final stage

**Advances in Technology-Assisted Neurorehabilitation** Natalia M. López,2025-03-14 Technology Assisted Neurorehabilitation introduces biomedical engineers health professionals and researchers to the study and integration of neurorehabilitation advances specifically focusing on applied technologies and mathematical methods Coverage includes neuroanatomy and neuromodulation robotic rehabilitation devices signal processing human machine interfaces software development serious games and virtual reality It takes an interdisciplinary approach including real world applications and new trends Both medical and technological fields are represented with a focus on neurological disease With the computerization of today s therapeutic technology this book is a valuable asset to any student in the bioengineering or healthcare fields Offers comprehensive coverage of the basics in neurorehabilitation technologies Provides reviews of research on each individual topic within the context of their clinical applications Presents an anatomical medical overview of normal human physiology and pathology Applies technology engineering and computing to a rehabilitative top down approach

**Interfacing Humans and Robots for Gait Assistance and Rehabilitation**



Carlos A. Cifuentes, Marcela Múnera, 2021-09-16 The concepts represented in this textbook are explored for the first time in assistive and rehabilitation robotics which is the combination of physical cognitive and social human robot interaction to empower gait rehabilitation and assist human mobility The aim is to consolidate the methodologies modules and technologies implemented in lower limb exoskeletons smart walkers and social robots when human gait assistance and rehabilitation are the primary targets This book presents the combination of emergent technologies in healthcare applications and robotics science such as soft robotics force control novel sensing methods brain computer interfaces serious games automatic learning and motion planning From the clinical perspective case studies are presented for testing and evaluating how those robots interact with humans analyzing acceptance perception biomechanics factors and physiological mechanisms of recovery during the robotic assistance or therapy Interfacing Humans and Robots for Gait Assistance and Rehabilitation will enable undergraduate and graduate students of biomedical engineering rehabilitation engineering robotics and health sciences to understand the clinical needs technology and science of human robot interaction behind robotic devices for rehabilitation and the evidence and implications related to the implementation of those devices in actual therapy and daily life applications

**Ubiquitous Computing and Ambient Intelligence** Carmelo R. García, Pino Caballero-Gil, Mike Burmester, Alexis Quesada-Arencibia, 2016-11-18 This LNCS double volume LNCS 10069 10070 constitutes the refereed proceedings of the 10th International Conference on Ubiquitous Computing and Ambient Intelligence UCAmI 2016 which includes the International Work Conference on Ambient Assisted Living IWAAL and the International Conference on Ambient Intelligence for Health AmIHEALTH held in Las Palmas de Gran Canaria Spain in November December 2016 The 69 full papers presented together with 40 short papers and 5 doctoral consortium papers were carefully reviewed and selected from 145 submissions UCAmI 2016 is focused on research topics related to ambient assisted living internet of things smart cities ambient intelligence for health human computer interaction ad hoc and sensor networks and security

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