



Neuro-rehabilitation with brain interface /

Ligthart, L. P.,
editor
Prasad, Ramjee,
editor
Pupolin, Silvano (1947-),
editor

River Publishers,
2015

Electronic books

Monografía

In recent years, major results were reported on Brain-Computer Interface / Brain-Machine Interface (BCI/BMI) applied to rehabilitation in scientific reports and papers. This subject received much attention within the Society on Communication, Navigation, Sensing and Services (CONASENSE) during the period 2013-2015. Describing the state of the art on various BCI/BMI activities related to neuro-rehabilitation is the central theme of this book. The latest insights coming from neurophysiologists, neuropsychologists, ICT experts specialized in clinical data management and from representatives of patient organizations are elucidated and new ways for "BCI/BMI applied to rehabilitation" using advanced ICT are introduced. The book describes the latest progress in and is an appeal for an approach leading to more cost-saving multi-disciplinary neuro-rehabilitation. This book covers the following topics: * Overview on BCI/BMI applied to rehabilitation * ICT for Neuro-rehabilitation * ICT for new generation prostheses * Gaze tracking, facial orientation determination, face and emotion recognition in 3D space for neuro-rehabilitation applications * Integrated perspective for future wide spread integration of motor neuro-rehabilitation * Ethical issues in the use of Information and Communication Technologies in the health care of patients with neurological disorders

<https://rebiunoda.pro.baratznet.cloud:38443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzI0MjMyNjE>

Título: Neuro-rehabilitation with brain interface editors Leo P. Ligthart, Ramjee Prasad, Silvano Pupolin

Editorial: Aalborg, Denmark River Publishers 2015

Descripción física: 1 online resource (169 pages)

Mención de serie: River Publishers Series in Communications v. 40

Bibliografía: Includes bibliographical references at the end of each chapters and index

Contenido: 1.) Overview on BCI/BMI applied to rehabilitation Silvano Pupolin and Leo P. Lighthart -- 2.) ICT for neurorehabilitation Junichi Ushiba and Shoko Kasuga -- 3.) ICT for new-generation prostheses Roberto Bortoletto, Luca Tonin, Enrico Pagello, and Emanuele Menegatti -- 4.) Gaze tracking, facial orientation determination, face and emotion recognition in 3D space for neurorehabilitation applications Krasimir Tonchev, Stanislav Panev, Agata Manolova, Nikolay Neshov, Ognian Boumbarov, and Vladimir Poulkov -- 5.) An integrated perspective for future widespread integration of neuro-motor rehabilitation Giulia Cisotto and Silvano Pupolin -- 6.) Ethical issues in the use of information and communication technologies in the health care of patients with neurological disorders Matteo De Marco and Annalena Venneri

Nota biográfica o histórica: Leo P. Lighthart, Ramjee Prasad, Silvano Pupolin

ISBN: 9788793237445 8793237448 9781003338925 electronic bk.) 1003338925 electronic bk.) 9781000795721 electronic bk. : PDF) 1000795721 electronic bk. : PDF) 9781000792409 electronic bk. : EPUB) 1000792404 electronic bk. : EPUB) 9788793237438 Hardback)

Materia: Brain-computer interfaces Technology Neurological Rehabilitation Technology Brain-Computer Interfaces Interfaces cerveau-ordinateur Technologie SCIENCE / Energy. TECHNOLOGY / Telecommunications. Technology. Brain-computer interfaces.

Autores: Lighthart, L. P., editor Prasad, Ramjee, editor Pupolin, Silvano (1947-), editor

Enlace a formato físico adicional: Print version Lighthart, Leo P. Neuro-Rehabilitation with Brain Interface. Aalborg : River Publishers, 2015 9788793237438

Punto acceso adicional serie-Título: River Publishers series in communications v. 40

Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es