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| Titolo | Emerging therapies in neurorehabilitation // Jose L. Pons, Diego Torricelli, editors |
| Pubbl/distr/stampa | Berlin ; ; Heidelberg, : Springer-Verlag, 2014 |
| ISBN | 3-642-38556-7 |
| Edizione | [1st ed. 2014.] |
| Descrizione fisica | 1 online resource (x, 345 pages) : illustrations (some color) |
| Collana | Biosystems & biorobotics |
| Altri autori (Persone) | PonsJose L TorricelliDiego |
| Disciplina | 610.28 |
| Soggetti | Nervous system - Diseases - Patients - Rehabilitation Nervous system - Wounds and injuries - Rehabilitation |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | "ISSN: 2195-3562." "ISSN: 2195-3570 (electronic)." |
| Nota di bibliografia | Includes bibliographical references. |
| Nota di contenuto | part I. Central neurological impairments -- part II. Spinal and brain plasticity -- part III. Emerging technologies -- part IV. Hands-on guides. |
| Sommario/riassunto | 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 Nuévalos, 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.
