

**Springer**1st  
edition1st ed. 2019, XXIX, 1180 p.  
395 illus., 343 illus. in color.**Printed book**

Hardcover

**Printed book**

Hardcover

ISBN 978-3-030-01844-3

\$ 379,99

Available

**Discount group**

Professional Books (2)

**Product category**

Proceedings

**Series**

Biosystems &amp; Biorobotics

**Other renditions**

Softcover

ISBN 978-3-030-13199-9

Softcover

ISBN 978-3-030-01846-7

**Engineering : Biomedical Engineering and Bioengineering**

Masia, L., Micera, S., Akay, M., Pons, J.L. (Eds.)

# Converging Clinical and Engineering Research on Neurorehabilitation III

**Proceedings of the 4th International Conference on NeuroRehabilitation (ICNR2018), October 16-20, 2018, Pisa, Italy**

- Reports on recent advances in neurorehabilitation research
- Describes technologies for cognitive and motor function recovery
- Presents new insights into the understanding of brain physiology and disease
- Discusses technological issues together with their clinical settings

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 2018 International Conference on Neurorehabilitation (ICNR 2018) held on October 16-20, 2018, in Pisa, Italy,, 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.

**Order online at [springer.com/booksellers](https://www.springer.com/booksellers)****Springer Nature Customer Service Center LLC**

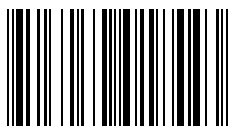
233 Spring Street

New York, NY 10013

USA

T: +1-800-SPRINGER NATURE

(777-4643) or 212-460-1500

[customerservice@springernature.com](mailto:customerservice@springernature.com)

ISBN 978-3-030-01844-3 / BIC: MQW / SPRINGER NATURE: SCT2700X

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.

Part of **SPRINGER NATURE**