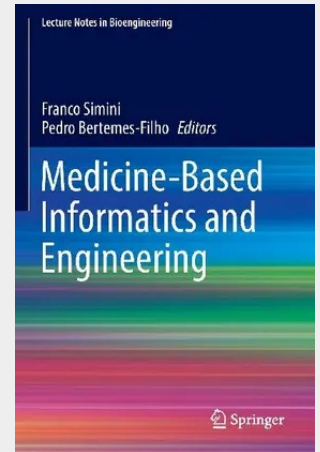


Medicine-Based Informatics and Engineering

This book originates from the idea to adapt biomedical engineering and medical informatics to current clinical needs and proposes a paradigm shift in medical engineering, where the limitations of technology should no longer be the starting point of design, but rather the development of biomedical devices, software, and systems should stem from clinical needs and wishes. Gathering chapters written by authoritative researchers, working the interface between medicine and engineering, this book presents successful attempts of conceiving technology based on clinical practice. It reports on new strategies for medical diagnosis, rehabilitation, and eHealth, focusing on solutions to foster better quality of life through technology, with an emphasis on patients' and clinical needs, and vulnerable populations. All in all, the book offers a reference guide and a source of inspiration for biomedical engineers, clinical scientists, physicians, and computer scientists. Yet, it also includes practical information for personnel using biomedical equipment, as well as timely insights that are expected to help health agencies and software firms in their decision-making processes.

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139,09 €

129,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783030878474

Medium: Buch

ISBN: 978-3-030-87847-4

Verlag: Springer

Erscheinungstermin: 09.12.2022

Sprache(n): Englisch

Auflage: 1. Auflage 2022

Serie: Lecture Notes in Bioengineering

Produktform: Kartoniert

Gewicht: 341 g

Seiten: 201

Format (B x H): 155 x 235 mm

