

Computational and Experimental Biomedical Sciences: Methods and Applications

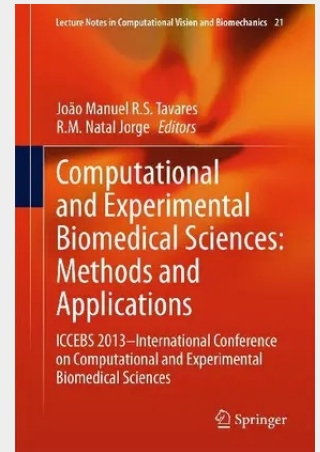
ICCEBS 2013 -- International Conference on Computational and Experimental Biomedical Sciences

This book contains the full papers presented at ICCEBS 2013 – the 1st International Conference on Computational and Experimental Biomedical Sciences, which was organized in Azores, in October 2013.

The included papers present and discuss new trends in those fields, using several methods and techniques, including active shape models, constitutive models, isogeometric elements, genetic algorithms, level sets, material models, neural networks, optimization and the finite element method, in order to address more efficiently different and timely applications involving biofluids, computer simulation, computational biomechanics, image based diagnosis, image processing and analysis, image segmentation, image registration, scaffolds, simulation and surgical planning.

The main audience for this book consists of researchers, Ph.D students and graduate students with multidisciplinary interests related to the areas of artificial intelligence, bioengineering, biology, biomechanics, computational fluid dynamics, computational mechanics, computational vision, histology, human motion, imagiology, applied mathematics, medical image, medicine, orthopaedics, rehabilitation, speech production and tissue engineering.

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53,49 €
49,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783319157986
Medium: Buch
ISBN: 978-3-319-15798-6
Verlag: Springer
Erscheinungstermin: 26.03.2015
Sprache(n): Englisch
Auflage: 2015
Serie: Lecture Notes in Computational Vision and Biomechanics
Produktform: Gebunden
Gewicht: 5384 g
Seiten: 259
Format (B x H): 160 x 241 mm

