

Springer

1st
edition1st ed. 2019, XV, 132 p. 65
illus., 42 illus. in color.**Printed book**

Hardcover

Printed book

Hardcover

ISBN 978-3-030-06069-5

\$ 179,99

Available

Discount group

Professional Books (2)

Product category

Contributed volume

SeriesAdvances in Experimental Medicine and
Biology

Biomedicine : Biomedical Engineering/Biotechnology

Rea, Paul M. (Ed.)

Biomedical Visualisation

Volume 1

- Showcases unique ways to use computing technology to visualise data from a wide variety of fields from the biomedical and life sciences
- Presents methodologies which will enable the reader to easily reproduce related materials for their courses, specialty, or to engage a wider audience
- Provides visually engaging material from many specialties that will appeal to a wide audience

This edited volume explores the use of technology to enable us to visualise the life sciences in a more meaningful and engaging way. It will enable those interested in visualisation techniques to gain a better understanding of the applications that can be used in imaging and analysis, education, engagement and training. The reader will be able to explore the utilisation of technologies from a number of fields to enable an engaging and meaningful visual representation of the life sciences. This use of technology-enhanced learning will be of benefit for the learner, trainer, in patient care and the wider field of education and engagement. By examining a range of techniques in image capture (photogrammetry, stereophotogrammetry, microphotogrammetry and autostereoscopy), this book will showcase the wide range of tools we can use. Researchers in this field will be able to find something suitable to apply to their work to enhance user engagement through improved visual means using the technologies we have available to us today. It will highlight the uses of these technologies to examine many aspects of the human body, and enable improved ways to enhance visual and tactile learning, including 3D printing. By demonstrating co-design processes, working directly with the end-stage users (including patients), it will also highlight successes in adopting tools like hand motion tracking rehabilitation for patients with conditions like multiple sclerosis. The book will also discuss the applications of immersive environments including virtual, augmented and mixed reality. The ultimate aim is to show how, by using these tools, we can enhance communication, mobile applications, health literacy and illustration of both normal and pathological processes in the body.

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

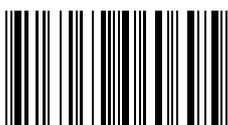
233 Spring Street

New York, NY 10013

USA

T: +1-800-SPRINGER NATURE

(777-4643) or 212-460-1500

customerservice@springernature.com

ISBN 978-3-030-06069-5 / BIC: MQW / SPRINGER NATURE: SCB24000

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**