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Soggetti	Biomedical engineering Nanotechnology Biomechanics Biomedical Devices and Instrumentation Nanoengineering Biomechanical Analysis and Modeling Medical and Health Technologies
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Pilot Study – Portable Evaporative Cooling System for Exercise-Induced Hyperthermia -- Meshless Method for Numerical Solution Fractional Pennes Bioheat Equation -- A Dynamic Finite Element Simulation of the Mitral Heart Valve Closure -- Choroid Segmentation in Optical Coherence Tomography Images Using Deep Learning -- Design Concept for an Automated Lower Extremity Dressing Aid for Monoplegic and Elderly People -- Obstacle Detector and Qibla Finder for Visually Impaired Muslim Community -- Rejecting Artifacts Based on Identification of Optimal Independent Components in an Electroencephalogram during Cognitive Tasks -- HydroGEV: Extracellular Vesicle-Laden Hydrogel for Wound Healing Applications.
Sommario/riassunto	This book gathers contributions presented at the 17th International Conference on Biomedical Engineering, held on December 9-12, 2019,

in Singapore. It continues the tradition of the previous conference proceedings, thus reporting on both fundamental and applied research. It includes a set of carefully selected chapters reporting on new models and algorithms and their applications in medical diagnosis or therapy. It also discusses advances in tele-health and assistive technologies, as well as applications of nanotechnologies. Organized jointly by the Department of Biomedical Engineering of the National University of Singapore and the Biomedical Engineering Society (Singapore), this book offers a timely snapshot of innovative research and technologies and a source of inspiration for future developments and collaborations in the field of biomedical engineering.

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