

1. Record Nr.	UNINA9910561292803321
Titolo	XXVII Brazilian Congress on Biomedical Engineering : Proceedings of CBEB 2020, October 26–30, 2020, Vitória, Brazil // edited by Teodiano Freire Bastos-Filho, Eliete Maria de Oliveira Caldeira, Anselmo Frizera-Neto
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-030-70601-X
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (2274 pages)
Collana	IFMBE Proceedings, , 1433-9277 ; ; 83
Disciplina	610.28
Soggetti	Biomedical engineering Biomechanics Biomaterials Medical and Health Technologies Biomechanical Analysis and Modeling Biomedical Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Analysis of the Acoustic Power Emitted by a Physiotherapeutic Ultrasound Equipment Used at the Brazilian Air Force Academy -- Synthesis And Antibacterial Activity of Maleimides -- Study of the Effect of Bioceramic Compressive Socks on Leg Edema -- Analysis of the Electric Field Behavior on a Stimulation Chamber Applying The Superposition Principle -- Development of a Non-Rigid Model Representing The Venous System of a Specific Patient -- Comparative Study of Rheological Models For Pulsatile Blood Flow In Realistic Aortic Arch Aneurysm Geometry By Numerical Computer Simulation -- The Influence of Cardiac Ablation on The Electrophysiological Characterization of Rat Isolated Atrium: Preliminary Analysis -- Evaluation of The Surface of Dental Implants After Mechanical Removal of Biofilm: A Comparative Study of Several Protocols -- Comparison of Hemodynamic Effects During Alveolar Recruitment Maneuvers In Spontaneously Hypertensive Rats Treated And Non-Treated With

Hydralazine -- Preliminary Results of Structural Optimization In Dental Prosthesis Using Finite Element Method.

Sommario/riassunto

This book presents cutting-edge research and developments in the field of Biomedical Engineering. It describes both fundamental and clinically-oriented findings, highlighting advantages and challenges of innovative methods and technologies, such as artificial intelligence, wearable devices and neuroengineering, important issues related to health technology management and human factors in health, and new findings in biomechanical analysis and modeling. Gathering the proceedings of the XXVII Brazilian Congress on Biomedical Engineering, CBEB 2020, held on October 26-30, 2020, in Vitória, Brazil, and promoted by the Brazilian Society of Biomedical Engineering – SBEB, this book gives emphasis to research and developments carried out by Brazilian scientists, institutions and professionals. It offers an extensive overview on new trends and clinical implementation of technologies, and it is intended to foster communication and collaboration between medical scientists, engineers, and researchers inside and outside the country. .