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ISBN	3-030-64610-6
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Descrizione fisica	1 online resource (XXV, 1172 p. 495 illus., 405 illus. in color.)
Collana	IFMBE Proceedings, , 1680-0737 ; ; 80
Disciplina	345.04
Soggetti	Medical technology Biomedical engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	A MATLAB App to Assess the Reliability of New Methods Compared to their Benchmarks -- A Novel Convolutional Neural Network for Continuous Blood Pressure Estimation -- A Novel Validation Framework to Assess Segmentation Accuracy of Inertial Sensor Data for Rehabilitation Exercises -- A Retrospective Observational Study of Health Facility Ownership Type and Performance on HIV Indicator Data Reporting in Kenya -- An Alternative Way to Measure Tidal Volumes -- Analysis and Measurement of Cardiac Output based on Pulmonary Artery Thermodilution in Laboratory Conditions -- Anisotropic Iteratively Re-Weighted TV Regularized Reconstruction for Linear Tomosynthesis -- Anti-tumor Effectiveness of Calcium Electroporation in Subcutaneous Murine Tumor Models is Dose Dependent -- Application of SOFA Framework for Physics-Based Simulation of Deformable Human Anatomy of Nasal Cavity -- Automatic Detection of Real and Imaginary Parts of Electrical Impedance with Single Synchronous Demodulation Channel.
Sommario/riassunto	This book aims at informing on new trends, challenges and solutions, in the multidisciplinary field of biomedical engineering. It covers traditional biomedical engineering topics, as well as innovative applications such as artificial intelligence in health care, tissue engineering , neurotechnology and wearable devices. Further topics

include mobile health and electroporation-based technologies, as well as new treatments in medicine. Gathering the proceedings of the 8th European Medical and Biological Engineering Conference (EMBEC 2020), held on November 29 - December 3, 2020, in Portorož, Slovenia, this book bridges fundamental and clinically-oriented research, emphasizing the role of education, translational research and commercialization of new ideas in biomedical engineering. It aims at inspiring and fostering communication and collaboration between engineers, physicists, biologists, physicians and other professionals dealing with cutting-edge themes in and advanced technologies serving the broad field of biomedical engineering. .
