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Autore	Ballina Fernando Emilio
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Altri autori (Persone)	ArmentanoRicardo AcevedoRubén Carlos MeschinoGustavo Javier
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Nota di contenuto	Implementation of Generative Adversarial Neural Networks for Lung Ultrasound Image Synthesis: Quality-based Optimal Latent Space Dimension Selection Using Fid Score -- An Automatized Online Platform for Left Ventricular Behavior Assessment Based on Echocardiographic Recordings -- Emotion Recognition Based on Galvanic Skin Response and Photoplethysmography Signals Using Artificial Intelligence Algorithms -- A Machine Learning Approach for Atrial Fibrillation Detection in Telemonitored Patients -- Web Application for Strategic Location of Ambulances in San Miguel De Tucumán -- Comparison of Machine Learning Algorithms for Seizure Detection on EEG -- Handwritten Text Recognition Algorithm -- Automatic Segmentation Technique for Lumbar Spine Muscle Evaluation

from MRI Images -- Transfer Learning Between fMRI-based Predictors of Treatment Outcome with Psilocybin and Escitalopram in Patients with Major Depression -- Predictive Modeling of Parkinson's Disease Progression Through Proteomic and Peptidomic Analysis -- Optimizing Biomedical Equipment Management Through a Business Intelligence Platform -- Automatic GO Annotation of Gene Products in SARS-CoV-2 -- Characterization of a Quartz Crystal Microbalance with Dissipation Monitoring Prototype Utilizing Human Tears -- Arterial Pulse Wave Velocity: Prototype Device Based on Photoplethysmography -- A Simplified Two-wired Biopotential Active Electrode Topology.

Sommario/riassunto

This book offers a timely snapshot of research, technologies and best practices in the broad area of bioengineering and clinical engineering. It reports on advances in biomechanics, biomedical image processing, biomaterials and tissue engineering. Further, it covers applications of artificial intelligence in biology and medicine, and instrumentation. Gathering the first volume of the proceedings of the XXIV Argentinian Congress of Bioengineering (SABI 2023), held on October 3–6, 2023, in Buenos Aires, Argentina - and organised by the Sociedad Argentina de Bioingeniería, this book provides an extensive source of information for both researchers and professionals in biomedical and clinical engineering.
