

1. Record Nr.	UNINA9910799496703321
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Titolo	MEDICON'23 and CMBEBIH'23 [[electronic resource]] : Proceedings of the Mediterranean Conference on Medical and Biological Engineering and Computing (MEDICON) and International Conference on Medical and Biological Engineering (CMBEBIH), September 14–16, 2023, Sarajevo, Bosnia and Herzegovina—Volume 1: Imaging, Engineering and Artificial Intelligence in Healthcare // edited by Almir Badnjevi, Lejla Gurbeta Pokvi
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	3-031-49062-2
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (923 pages)
Collana	IFMBE Proceedings, , 1433-9277 ; ; 93
Altri autori (Persone)	Gurbeta PokviLejla
Disciplina	610.28
Soggetti	Biomedical engineering Biophysics Signal processing Biomedical Devices and Instrumentation Bioanalysis and Bioimaging Signal, Speech and Image Processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Multimodal Registration Algorithm of Plantar Pressure Images and Digital Scanner for the Characterization of the Diabetic Foot in the BASPI/FootLab Laboratory -- Semi-automated Calculation of Baroreflex Sensitivity (BRS) Indices -- Preliminary Assessment of the Samsung Galaxy Watch 5 Accuracy for the Monitoring of Heart Rate and Heart Rate Variability Parameters -- EEG Microstate Clustering to Evaluate Acoustic Stimulation Phase-locked Targeting of Slow Wave Sleep Activity -- Development of an Interpretable Model for Improving Differential Diagnosis in Subjects with a Left Ventricular Ejection Fraction Ranging from 40 to 55% -- Fractal Characteristics of Retinal Microvascular Network in Alzheimer's Disease and Colon Cancer in Automatically Segmented Fundus Images from the UK Biobank Database -- Classification of Atrial Fibrillation ECG Signals Using 2d

CNN -- Feature Selection for Arrhythmia Classification Using Statistical
-- Investigating the Physiology Behind Nose Thermal Response to
Stress: A Cross-mapping Approach -- Comparing Valence-arousal and
Positive-negative Affect Models of Affect: A Nonlinear Analysis of
Continuously Annotated Emotion Ratings -- Postprandial Peak
Identification from Continuous Glucose Monitoring Time Series --
Emotional State Evaluation in Driving Simulations: Pc Vs Virtual Theater
-- Classification of Physiological States Through Machine Learning
Algorithms Applied to Ultra-short-term Heart Rate and Pulse Rate
Variability Indices on a Single-feature Basis -- Decomposition of
HDsEMG Signals Recorded from a Forearm Extensor Muscle Based on
Blind Source Separation -- Exploring the Predictability of EEG Signals
Timed with the Heartbeat: A Model-based Approach for the Temporal
and Spatial Characterization of the Brain Dynamics.

Sommario/riassunto

This book presents cutting-edge research and developments in the broad field of medical, biological engineering and computing. This is the first volume of the joint proceedings of the Mediterranean Conference on Medical and Biological Engineering and Computing (MEDICON) and the International Conference on Medical and Biological Engineering (CMBEBIH), which were held together on September 14-16, 2023, in Sarajevo, Bosnia and Herzegovina. Contributions report on advances in biomedical signal processing and bioimaging, medical physics, and pharmaceutical engineering. Further, they cover applications of artificial intelligence and machine learning in healthcare.
