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Autore	Wang Guangzhi
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Altri autori (Persone)	YaoDezhong GuZhongze PengYi TongShanbao LiuChengyu
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Nota di contenuto	A Risk Probability Prediction Model for Sudden Cardiac Death Based on Heart Rate Variability Metrics -- A Faster Single-channel SSVEP-based Speller Using Peak Filter Extended Canonical Correlation Analysis -- Respiratory Function Monitor Based on Surface Diaphragm Electromyography -- Aortic Pressure Waveform Estimation Based on Variational Mode Decomposition and Gated Recurrent Unit -- Research on Intelligent Calibration Test Fault Diagnosis Model of Automatic Chemiluminescence Immunoassay Analyzer -- Evaluation of Cerebral Autoregulation Function Based on TCD Signal -- Effect of Promoter G- quadruplex on Gene Expression and Its Interaction with Transcription Factor -- Dielectric Properties for Identification of Gliomas and Normal

Brain Tissues with Open-ended Coaxial Probe -- Research on GMI Probe Performance in Biomagnetic Field Range in Unshielded Environments -- A Single-channel EEG Automatic Artifact Rejection Framework Based on Hybrid Approach -- AGCN: Adaptive Graph Convolution Network with Hemibrain Differences of Resting-state EEG for Identifying Autism in Children -- Recognition of VR Motion Sickness Level Based on EEG and Functional Brain Network -- SRSA-Net: Separable ResUnit and Self-attention Optimized Network for Simultaneous Nuclei Segmentation and Classification in Histology Images -- Developmental Pattern of Individual Morphometric Similarity Network in the Human Fetal Brain -- Automatic Segmentation of Liver Tumor from Multi-phase Contrast-enhanced CT Images Using Cross-phase Fusion Transformer.

Sommario/riassunto

This book presents cutting-edge research and developments in the field of medical and biological engineering, which a special emphasis on activities carried out in the Asian-Pacific region. Gathering the proceedings of the 12th Asian-Pacific Conference on Medical and Biological Engineering (APCMBE 2023), held on May 18–21, 2023, in Suzhou, China, this first volume of a two-volume set focuses on biomedical imaging and signal processing, biomedical sensing and wearables, and rehabilitation and neural engineering. All in all, this book offers extensive information on the state-of-the-art solutions and challenges in biomedical and clinical engineering, addressing a broad audience of medical scientists, engineers, physicists and other researchers and professionals.
