1. Record Nr.   UNINA9910855376403321

   Autore   Triwiyanto Triwiyanto

   Titolo   Proceedings of the 4th International Conference on Electronics, Biomedical Engineering, and Health Informatics : ICEBEHI 2023, 4–5 October, Surabaya, Indonesia / / edited by Triwiyanto Triwiyanto, Achmad Rizal, Wahyu Caesarendra

   Pubbl/distr/stampa Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024

   ISBN   9789819714636
                     981971463X

   Edizione   [1st ed. 2024.]

   Descrizione fisica 1 online resource (690 pages)

   Collana   Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 1182

   Altri autori (Persone) RizalAchmad
                     CaesarendraWahyu

   Disciplina   621,381

   Soggetti   Electronics
                     Biomedical engineering
                     Medical informatics
                     Electronics and Microelectronics, Instrumentation
                     Biomedical Engineering and Bioengineering
                     Health Informatics

   Lingua di pubblicazione Inglese

   Formato   Materiale a stampa

   Livello bibliografico Monografia

   Nota di contenuto Multi Socket Transmission System Application with Advanced Encryption Standard Algorithm to Support Confidential Medical Data Security -- The Application of Virtual Reality Using Kinect Sensor in Biomedical and Healthcare Environment: A Review -- Automated Taekwondo Kick Classification using SVM and IMU Sensor on Arduino Nano 33 BLE -- Classification EEG Signal using Texture Analysis and Artificial Neural Network for Alcoholic Detection -- CC1101 Network for Healthcare Cyber Physical System on Air Quality Data Acquisition -- Modelling of Solar Irradiance for Optimal Solar-Powered Car Performance at EPIC Solar Farm Pathway -- Revolutionizing Transportation: Analyzing Solar Car Efficiency at EPIC Solar Farm -- Mathematical Modelling of Electromagnetic Transduction for Optimal Power Harvesting from Induction Motors -- Comparison of CNN and KNN Methods for Cataract Classification and Detection Based on

Fundus Images -- Design of Photoplethysmography (PPG)-based Respiratory Rate Measuring Device Through Peak Calculations -- Automatic Obstructive Sleep Apnea Identification using First Order Statistics Features of Electrocardiogram and Machine Learning -- The Power Use of Power Spectrum Density for Measures of Cognitive Performance Based on Electroencephalography: Systematic Literature Review -- Enhancing Rice Leaf Disease Classification: A Combined Algorithm Approach for Improved Accuracy and Robustness -- Improving Unbalanced Security X-Ray Image Classification using VGG16 and AlexNet with Z-Score Normalization and Augmentation.

Sommario/riassunto	This book presents high-quality peer-reviewed papers from the International Conference on Electronics, Biomedical Engineering, and Health Informatics (ICEBEHI 2023, October 4–5, Surabaya, Indonesia). The contents are broadly divided into three main topics (a) Electronics, (b) Biomedical Engineering, and (c) Health Informatics. The major focus is on emerging technologies and their applications in the domain of biomedical engineering. It includes papers based on original theoretical, practical, and experimental simulations, development, applications, measurements, and testing. Featuring the latest advances in the field of biomedical engineering applications, this book serves as a definitive reference resource for researchers, professors, and practitioners interested in exploring advanced techniques in the field of electronics, biomedical engineering, and health informatics. The applications and solutions discussed here provide excellent reference material for future product development.