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Nota di contenuto	-- A Novel Approach for Diabetic Retinopathy Detection with Class Imbalanced Datasets. -- 3D Modeling and Analysis in OCT-Angiography: Enhancing Diabetic Retinopathy Diagnosis and Vascular Assessment. -- A Novel Framework for ECG Signal Analysis. -- A Review of the Dissolution Models for Drug-Encapsulated Polymers. -- A Study on Hemodynamics of Brain Prefrontal Cortex During Visuospatial. -- Advancing Virtual Reality as Assistive Technology for Dementia Care with Neural Radiance Fields. -- AI-Enabled Automated Strabismus Detection and Corneal Deviation. -- Arterial study of diabetic and healthy subjects using ECG and PPG signals. -- Assessment of arterial stiffness in type-2 diabetes using Photoplethysmogram signals. -- Attention-Driven U-Net Models for Accurate Brain Tumor Segmentation. -- Breast Cancer Detection Using

Metaheuristic Algorithms: A Comparative Study. -- Chemiluminescence Sensing with Smartphone for Bio Marker Detection in Biomedical Applications. -- Comparative Investigation of Ti-6Al-4V and CoCr Alloys Acetabular Shells on Stability during Routine Activities- A Computational Approach. -- Deep Insights in Brain Tumour Classification using Deep Learning and Explainable AI Tools. -- Deep Learning Based Framework for Medical Image Authentication and Tampering Detection. -- Deep Learning based Multi-Class Classification of Dental Diseases using OPG Images. -- Design of Orthosis for Ankle Inversion Injuries. -- Evaluation of Antitubercular Drug Release Kinetics from Polylactic Acid - Polyethylene Glycol Diblock Nano-Carriers. -- Eye Movement-Based Wheelchair Control with Emotion Detector and Obstacle Detection. -- Hydrogen Sensors: A Review. -- Is the Current GSR Dataset Sufficient for Learning for Visually Impaired Persons? A Physiological Perspective. -- Menger-based bone scaffold design and mechanical analysis. -- Multimodal Fusion Framework for Accurate Insomnia Detection. -- Neurodegenerative Diseases: Understanding Risk Factors, Preventive Measures and the Significance of Early Detection and Neurorehabilitation. -- Optimized DenseNet-Based Plant Disease Detection and Multiclass Classification. -- Optimizing MRI-Based Brain Tumor Classification: A Study on Model Efficiency and Accuracy. -- Organ-Specific Cancer Diagnosis: A Machine Learning-Based GUI Approach. -- Parkinson's Disease Detection using Transfer Learning based Autoencoder model. -- Prediction Of Liver Stiffness Using Elastographic Images Fibroscan. -- Principal Component Analysis for Pattern Recognition and Characterization of Homeopathy Dilutions. -- Protocol for Integrating VR Therapy in Post-Stroke Up-per Limb Rehabilitation. -- Review of a Sensor-Based Method for Monitoring Exhaled Methane for Gut Health Assessment. -- Utilizing Deep learning and Quantum techniques for precision Skin Cancer diagnosis using Histopathological and Genomic data. -- Design and Development of Robotic Arm for Tele-Surgical and Diagnostic Applications. -- Development Of Ultrasound-Mediated Transdermal Drug Delivery System. -- IoT-Integrated Ultrasonic Cleaning System for Enhanced Efficiency and Sustainability. -- Analysis of Ethnic Disparities in Autism Spectrum Disorder among Toddlers. -- Generating fECG using CGAN for improving performance of deep neural networks. -- Multi-Class Classification of Eye Disease Using Fundus Images. -- Multimodal Emotion and Stress Recognition Using EEG and ECG: A Machine Learning Approach with Explainable AI. -- Enhanced Multilingual Medical Knowledge Extraction and Disease Diagnosis with Optimized Large Language Models. -- Attention U-Net and CNN-Based Hybrid Models for Precise Brain Tumor Segmentation on BraTS. -- A Novel Wearable Neckband for Sleep Apnea Monitoring and Diagnosis. -- Enhancing COVID-19 Detection through Chest CT Imaging with Xception Deep Learning. -- Intravenous Bag Monitoring and Alert System - A Prototype. -- Voice Pathology Detection Using Phonation. -- A.I.D: An Experiment to assist clinicians in evidence-based treatment plans. -- Development of 3D Printed Life Size Replica of a Bone from CT Scan Data. -- Investigation of human hepatotoxicity linked to the environ-mental contaminant 4-MBC by network toxicology and mo-lecular docking methodologies. -- DWT based Classification of Children with Dyslexia from normal by using SVM classifier on EEG Signals. -- Deep Learning Approaches for Multi-Class Gastrointestinal Disease Detection.

Technology, ICBEST 2025, held in Raipur, India, during April 10-11, 2025. The 51 full papers presented in this book were carefully reviewed and selected from 112 submissions. The papers focus on the following domains: artificial intelligence in healthcare, computational mechanics in healthcare, and health informatics.
