

Contents

Voice Privacy in Biometrics	1
Priyanka Gupta, Shrishti Singh, Gauri P. Prajapati, and Hemant A. Patil	
Histopathology Whole Slide Image Analysis for Breast Cancer Detection	31
Pushap Deep Singh, Arnav Bhavsar, and K. K. Harinarayanan	
Lung Classification for COVID-19	57
Norliza Mohd. Noor and Muhammad Samer Sallam	
GRU-Based Parameter-Efficient Epileptic Seizure Detection	73
Ojas A. Ramwala, Chirag N. Paunwala, and Mita C. Paunwala	
An Object Aware Hybrid U-Net for Breast Tumour Annotation	87
Suvidha Tripathi and Satish Kumar Singh	
VLSI Implementation of sEMG Based Classification for Muscle Activity Control	107
Amit M. Joshi, Natasha Singh, and Sri Teja	
Content-Based Image Retrieval Techniques and Their Applications in Medical Science	123
Mayank R. Kapadia and Chirag N. Paunwala	
Data Analytics on Medical Images with Deep Learning Approach	153
S. Saravanan, K. Surendheran, and K. Krishnakumar	
Analysis and Classification Dysarthric Speech	167
Siddhant Gupta and Hemant A. Patil	
Skin Cancer Detection and Classification Using DWT-GLCM with Probabilistic Neural Networks	183
J. Pandu, Umadevi Kudtala, and B. Prabhakar	
Manufacturing of Medical Devices Using Artificial Intelligence-Based Troubleshooters	195
Akbar Doctor	

Enhanced Hierarchical Prediction for Lossless Medical Image Compression in the Field of Telemedicine Application	207
Ketki C. Pathak, Jignesh N. Sarvaiya, and Anand D. Darji	
LBP-Based CAD System Designs for Breast Tumor Characterization	231
Kriti, Jitendra Virmani, and Ravinder Agarwal	
Detection of Fetal Abnormality Using ANN Techniques.....	259
Vidhi Rawat, Vibhakar Shrimali, Alok Jain, and Abhishek Rawat	
Machine Learning and Deep Learning-Based Framework for Detection and Classification of Diabetic Retinopathy	271
V. Purna Chandra Reddy and Kiran Kumar Gurralla	
Applications of Artificial Intelligence in Medical Images Analysis	287
Pushpanjali Gupta and Prasan Kumar Sahoo	
Intelligent Image Segmentation Methods Using Deep Convolutional Neural Network	309
Mekhla Sarkar and Prasan Kumar Sahoo	
Artificial Intelligence Assisted Cardiac Signal Analysis for Heart Disease Prediction	337
Prasan Kumar Sahoo, Sulagna Mohapatra, and Hiren Kumar Thakkar	
Early Lung Cancer Detection by Using Artificial Intelligence System	373
Fatma Taher	
An Optimal Model Selection for COVID 19 Disease Classification	399
Pramod Gaur, Vatsal Malaviya, Abhay Gupta, Gautam Bhatia, Bharavi Mishra, Ram Bilas Pachori, and Divyesh Sharma	
Index	417