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| Soggetti | Biomedical engineering<br>Artificial intelligence<br>Image processing - Digital techniques<br>Computer vision<br>Biophysics<br>Information storage and retrieval systems<br>Biomedical Engineering and Bioengineering<br>Artificial Intelligence<br>Computer Imaging, Vision, Pattern Recognition and Graphics<br>Bioanalysis and Bioimaging<br>Information Storage and Retrieval |
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| Nota di contenuto | Retinal Vessel Segmentation in Fundus Image using Low-Cost Multiple U-Net Architecture -- Imaging Radiomic-Driven Framework for Automated Cancer Investigation -- Computational image analysis of painful and pain free intervertebral disc -- Bio-medical image encryption using the modified chaotic image encryption method -- Stability of Feature Selection Algorithms -- A Database Application of Monitoring Covid-19 in India -- Walking Assistant for Vision Impaired by Using Deep Learning -- Detection of Coronavirus in Electron Microscope Imagery using Convolutional Neural Networks -- IoT & RFID based Smart Card System Integrated with Healthcare, Electricity, QR and Banking Sectors -- Face Mask Recognition Using Modular, Wavelet and |

Modular-Wavelet PCA -- Effective Overview of Different ML Models used for Prediction of COVID -19 Patients -- Hybrid CNN-SVM Model for Face Mask Detector to Protect from COVID -19 -- A Study on Various Medical Imaging Modalities and image fusion methods -- A Deep Learning Technique For Bi-fold Grading of an Eye Disorder DR-Diabetic Retinopathy -- Brain Tumor Detection Using Fine Tuned YOLO Model with Transfer Learning.

Sommario/riassunto

This book includes high-quality papers presented at the Second International Symposium on Computer Vision and Machine Intelligence in Medical Image Analysis (ISCMM 2021), organized by Computer Applications Department, SMIT in collaboration with Department of Pathology, SMIMS, Sikkim, India, and funded by Indian Council of Medical Research, during 11 – 12 November 2021. It discusses common research problems and challenges in medical image analysis, such as deep learning methods. It also discusses how these theories can be applied to a broad range of application areas, including lung and chest x-ray, breast CAD, microscopy and pathology. The studies included mainly focus on the detection of events from biomedical signals.