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   Titolo   Biomedical Signal and Image Processing / / edited by Yongxia Zhou

   Pubbl/distr/stampa   London, United Kingdom : , : IntechOpen, , 2021

   Descrizione fisica   1 online resource (122 pages) : illustrations

   Disciplina   616.0754

   Soggetti   Diagnostic imaging
                           Signal processing

   Lingua di pubblicazione Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Sommario/riassunto   This book examines the principles and applications of biomedical
                           imaging and signals processing as well as the advances of multimodal
                           imaging and multi-feature quantification for disease diagnosis and
                           treatments in ophthalmology, stroke, chemotherapy, and neurology.
                           Chapters cover such topics as image segmentation and registration,
                           feature selection for classification, micro-texture characterization,
                           simulation of tissue deformation, and high-level statistical analyses.
                           The chapters also discuss different imaging modalities including MRI
                           and EEG, confocal microscopy, and molecular imaging for improving
                           the accuracy of disease detection via higher spatiotemporal resolution
                           and better illustration. Overall, the book provides a comprehensive
                           review of biomedical imaging and signal processing, informing readers
                           with current and insightful knowledge in these fields.