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Titolo	Medical Imaging and Computer-Aided Diagnosis [[electronic resource] ] : Proceedings of 2022 International Conference on Medical Imaging and Computer-Aided Diagnosis (MICAD 2022) // edited by Ruidan Su, Yudong Zhang, Han Liu, Alejandro F Frangi
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	9789811667756
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (567 pages)
Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 810
Altri autori (Persone)	ZhangYudong LiuHan F FrangiAlejandro
Disciplina	616.0754
Soggetti	Biomedical engineering Signal processing Computer vision Biomedical Engineering and Bioengineering Digital and Analog Signal Processing Computer Vision
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Optical and Photo-acoustic Imaging -- Image Analysis and Signal Processing -- Shape Representation and Analysis -- Image Reconstruction -- Imaging and Genomics -- Image Guided Surgery -- Image-Guided Interventions and Surgery -- COVID-19 image processing -- Segmentation -- Pattern recognition -- Feature extraction -- Classifier design -- Machine learning including deep learning -- Radiomics -- CAD workstation design -- Human-computer interaction -- Computer Aided Diagnosis on COVID-19.
Sommario/riassunto	This book covers virtually all aspects of image formation in medical imaging, including systems based on ionizing radiation (x-rays, gamma rays) and non-ionizing techniques (ultrasound, optical, thermal, magnetic resonance, and magnetic particle imaging) alike. In addition, it discusses the development and application of computer-aided detection and diagnosis (CAD) systems in medical imaging. Given its

coverage, the book provides both a forum and valuable resource for researchers involved in image formation, experimental methods, image performance, segmentation, pattern recognition, feature extraction, classifier design, machine learning / deep learning, radiomics, CAD workstation design, human–computer interaction, databases, and performance evaluation. .

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