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Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (XIII, 439 p. 204 illus., 151 illus. in color.)
Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 784
Disciplina	610.28
Soggetti	Biomedical engineering Signal processing Computer vision Pattern recognition systems Radiology Biomedical Engineering and Bioengineering Digital and Analog Signal Processing Computer Vision Automated Pattern Recognition
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Medical Imaging -- Computer Aided Detection/Diagnosis -- Machine learning and Deep learning -- Others.
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. Also there will be a special track on computer-aided diagnosis on COVID-19 by CT and X-rays images. 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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