

1. Record Nr.	UNINA9910411936203321
Titolo	Medical Imaging and Computer-Aided Diagnosis : Proceeding of 2020 International Conference on Medical Imaging and Computer-Aided Diagnosis (MICAD 2020) // edited by Ruidan Su, Han Liu
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-5199-5
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XI, 244 p. 107 illus., 76 illus. in color.)
Collana	Lecture Notes in Electrical Engineering, , 1876-1100 ; ; 633
Disciplina	616.07540285
Soggetti	Biomedical engineering Signal processing Image processing Speech processing systems Optical data processing Pattern recognition Radiology Biomedical Engineering and Bioengineering Signal, Image and Speech Processing Image Processing and Computer Vision Pattern Recognition Diagnostic Radiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
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 -- Segmentation -- Pattern recognition -- Feature extraction -- Classifier design -- Machine learning including deep learning -- Radiomics -- CAD workstation design -- Human-computer interaction.
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. .
