1. Record Nr.   UNINA9910842494503321

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   Titolo   Proceedings of 2023 International Conference on Medical Imaging and Computer-Aided Diagnosis (MICAD 2023) [[electronic resource]] : Medical Imaging and Computer-Aided Diagnosis / / edited by Ruidan Su, Yu-Dong Zhang, Alejandro F. Frangi

   Pubbl/distr/stampa   Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024

   ISBN   981-9713-35-8

   Edizione   [1st ed. 2024.]

   Descrizione fisica   1 online resource (414 pages)

   Collana   Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 1166

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                        FrangiAlejandro F

   Disciplina   006

   Soggetti   Image processing - Digital techniques
                        Computer vision
                        Application software
                        Computer Imaging, Vision, Pattern Recognition and Graphics
                        Computer and Information Systems Applications

   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. This book includes the state-of-the-art research of computer-aided diagnosis systems with aritificial intelligence. 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.