

1. Record Nr.	UNINA9910350221103321
Titolo	Medical Imaging Methods [[electronic resource] ] : Recent Trends // edited by Ashutosh Kumar Shukla
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-9121-1
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (147 pages)
Disciplina	616.0754
Soggetti	Medical physics Radiation Radiology Medical and Radiation Physics Diagnostic Radiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	X-ray imaging (CT, fluoroscopy and radiography) - benefits and risks -- Advances in ultrasound imaging -- Advances in magnetic resonance imaging (MRI) -- Magnetic resonance spectroscopic (MRS) analysis in brain tumors -- Optical stimulation of acoustic signals - photoacoustic imaging -- LASER light modulation by ultrasound - acousto-phonic imaging -- Advances in nuclear medicine imaging -- Electron paramagnetic resonance imaging - solo and orchestra -- Ethical issues in medical imaging methods.
Sommario/riassunto	This book provides insights into current radiology practices in diagnostic imaging, discussing specific features of individual imaging techniques, such as sensitivity, specificity and accuracy and signal-to-noise ratio. It includes chapters on various established imaging methods as well as emerging methods such as EPR imaging, and their applications in the diagnosis of skin cancer, brain tumors, oral diseases and kidney cysts. Adopting a bottom-up approach and presenting the recent trends in a simple manner with the help of examples, the book appeals to a wide audience, including academics, researchers, medical and nursing students, as well as healthcare professionals in the field of imaging and radiology.

