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	Titolo	Application of Infrared to Biomedical Sciences [[electronic resource] /] / edited by Eddie YK Ng, Mahnaz Etehadtavakol
	Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2017
	ISBN	981-10-3147-9
	Edizione	[1st ed. 2017.]
	Descrizione fisica	1 online resource (XXIV, 552 p. 283 illus., 242 illus. in color.)
	Collana	Series in BioEngineering, , 2196-8861
	Disciplina	616.072
	Soggetti	Biomedical engineering
		Medical physics
		Radiation
		Radiology
		Regenerative medicine
		Tissue engineering
		Biomedical Engineering and Bioengineering
		Medical and Radiation Physics
		Diagnostic Radiology
		Biomedical Engineering/Biotechnology
		Regenerative Medicine/Tissue Engineering
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Breast Imaging -- Rheumatology -- Inflammation -- Controlling Temperature in Laser Therapy -- Thyroid Gland -- Sports Medicine -- Dentistry -- Diabetic Neuropathic Foot -- Skin Cancer Detection -- Detecting Fever -- Regional Anesthesia -- Plastic Surgery -- Determining the Functionality of Anti-allergy Medicine -- Injury -- Pain / Trauma -- Peripheral artery Disease -- Evaluation of Mental Work -- Scrotal imaging.
	Sommario/riassunto	The book covers the latest updates in the application of infrared to biomedical sciences, a non-invasive, contactless, safe and easy approach imaging of skin and tissue temperatures. Its diagnostic procedure allows practitioners to identify the locations of abnormal chemical and blood vessel activity such as angiogenesis in body tissue.

Its non-invasive approach works by applying the technology of the infrared camera and state-of-the-art software, where high-resolution digital infrared imaging technology benefits highly from enhanced image production, standardized image interpretation protocols, computerized comparison and storage, and sophisticated image enhancement and analysis. The book contains contributions from global prominent scientists in the area of infrared applications in biomedical studies. The target audience includes academics, practitioners, clinicians and students working in the area of infrared imaging in biomedicine.