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	ISBN	3-030-14136-5
	Edizione	[1st ed. 2019.]
	Descrizione fisica	1 online resource (XI, 145 p. 120 illus., 73 illus. in color.)
	Disciplina	610.28 617.60757
	Soggetti	Biomedical engineering Dentistry Signal processing Image processing Speech processing systems Radiology Optical data processing Biomedical Engineering and Bioengineering Signal, Image and Speech Processing Diagnostic Radiology Image Processing and Computer Vision
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	Introduction -- Domain Study and Literature Review -- Enhancement and Segmentation of Dental Radiographs Using Morphological Operations -- Segmentation of Dental Radiographs Using Active Contour Model -- Multiphase Level Set Segmentation for Roi Extraction from Dental Radiographs -- Clustering Techniques for Dental Image Analysis -- Conclusion and Further Enhancements.
	Sommario/riassunto	This book provides an overview of computational approaches to medical image examination and analysis in oral radiology utilizing dental radiograph to detect and diagnose dental caries in cases of decayed teeth. Coverage includes basic image processing techniques;

approaches for Region of Interest extraction and analysis; and the role of computational clustering techniques for segmentation of teeth and dental caries. The book also presents a novel multiphase level set method for automatic segmentation of dental radiographs.