Record Nr. UNINA9910299713703321 Computer vision techniques for the diagnosis of skin cancer / / Jacob **Titolo** Scharcanski, M. Emre Celebi, editors Pubbl/distr/stampa Heidelberg [Germany]:,: Springer,, 2014 **ISBN** 3-642-39608-9 Edizione [1st ed. 2014.] 1 online resource (x, 282 pages): illustrations (chiefly color) Descrizione fisica Collana Series in BioEngineering, , 2196-8861 Disciplina 620 Soggetti Skin - Cancer - Diagnosis Diagnostic imaging Melanoma - Diagnosis Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia "ISSN: 2196-8861." Note generali "ISSN: 2196-887X (electronic)." Nota di bibliografia Includes bibliographical references. Enhancement of skin images -- Registration of skin images --Nota di contenuto Segmentation of skin images -- Feature extraction from skin images --Classification of skin images. The goal of this volume is to summarize the state-of-the-art in the Sommario/riassunto utilization of computer vision techniques in the diagnosis of skin cancer. Malignant melanoma is one of the most rapidly increasing cancers in the world. Early diagnosis is particularly important since melanoma can be cured with a simple excision if detected early. In recent years, dermoscopy has proved valuable in visualizing the morphological structures in pigmented lesions. However, it has also been shown that dermoscopy is difficult to learn and subjective. Newer technologies such as infrared imaging, multispectral imaging, and confocal microscopy, have recently come to the forefront in providing greater diagnostic accuracy. These imaging technologies presented in this book can serve as an adjunct to physicians and provide automated

patients with multiple atypical nevi.

skin cancer screening. Although computerized techniques cannot as yet provide a definitive diagnosis, they can be used to improve biopsy decision-making as well as early melanoma detection, especially for