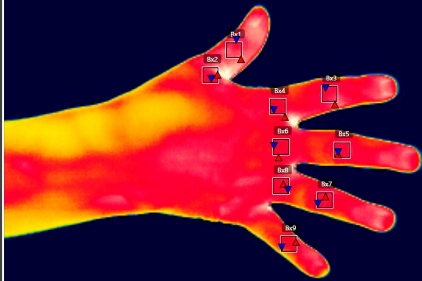


ARTIFICIAL
INTELLIGENCE-BASED
INFRARED THERMAL
IMAGE PROCESSING
AND ITS APPLICATIONS



U. Snehalatha
K. Palani Thanaraj
Kurt Ammer



September 2022: 6 x 9: 246pp 63
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U. Snehalatha, K. Palani Thanaraj, and Kurt Ammer

Infrared thermography is a fast and non-invasive technology that provides a map of the temperature distribution on the body's surface. This book provides a description of designing and developing a computer assisted diagnosis (CAD) system based on thermography for diagnosing some of the common ailments such as Rheumatoid Arthritis (RA), diabetes complications and fever. It also introduces applications of machine and deep learning methods in the development of CAD system. Recent technologies such as convolutional neural networks and its application in CAD is explained. This book is aimed at researchers and graduate students in biomedical engineering, medicine, image processing, and CAD.

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