Abstract

Melanoma is the most dangerous skin cancer. It should be diagnosed early because of its aggressiveness. To diagnose melanoma earlier, skin lesion should be segmented accurately. To reduce the cost for specialists to screen every patient, there is a need of automated melanoma prescreening system to diagnose melanoma using images acquired in digital cameras. In this frame work, an automated melanoma prescreening system is proposed to diagnose melanoma skin cancer using Modified TDLS algorithm and SVM classifier. Representative texture distributions are obtained from texture vectors. The segmentation accuracy is improved by modification in TDLS algorithm. TD metric is calculated with lesion
Detection of Melanoma Skin Cancer using Segmentation and Classification Algorithms

The entire system is tested using MATLAB software.

References

- Jeffrey Glaister and David A. Clausi, Senior Member, "Segmentation of Skin Lesions From Digital Images Using Joint Statistical Texture Distinctiveness" IEEE Transactions on Biomedical Engineering, Vol. 61, No. 4, pp. 1220-230, April 2014.

Index Terms

Computer Science

Image Processing
Keywords
Melanoma  Skin Lesion  Tdls  Svm  Dermatoscope