Melanoma Prediction using Convolutional Neural Networks

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Abstract

Melanoma is one of the most common types of skin cancer. Early detection of melanoma could prove to be the vital difference. The system proposes the use of neural networks to get a quick and accurate estimate and also determine the probability of skin cancer. The use of convolutional neural network as well as back propagation neural networks ensures that the system will have increased accuracy while the image processing techniques (RGB to grayscale, median filtering, segmentation) are in place to reduce the complexity and requirements of the system.

References

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Index Terms

Computer Science

Artificial Intelligence

Keywords

CNN-Convolutional Neural Network, BPNN-Back Propagation Neural Network, SVM-Support Vector Machines, Melanoma- a type of skin cancer that occurs in Melanocytes, Skin cancer-abnormal multiplication of skin cells, Melanocytes-skin cells that impart colour to the skin.