Melanoma Skin Cancer Detection Using Improved Fuzzy Neural Network

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Melanoma is a very dangerous melanocytic tumors that arise uncoordinated dark pigments and if left untreated transmitted through blood circulation to all parts of the body. In this work, proposed two system for classification.in the first system, we used the asymmetric, edge and color features. These feature vectors are input for a multi-layer perceptron neural network and the output of the MLP as input for an ANFIS classifier and at the end 80.66% accuracy was achieved. In the second system, diameter feature added to the feature vector and in this system 91.6% accuracy was achieved.

Keywords : Melanoma, Medical Image Processing, ANFIS, Canny Edge Detection