Subject Abstract

1) Context: How and in what ways we can enhance skin cancer CNN model's performance.

2) Objective: To identify key points that could improve efficiency and lower the amount of losses happening in the skin cancer recognition model.

3) Method: By Reducing the image size to 20% of the original image size, Adjusting the training, validation and testing data sets sizes, changing batch size and epochs size and calling the call-back function Early-Stopping that connects all factors related to model.

4) Result: Accuracy of the model will enhance, and the model will always check while in every 3-epoch running, if the accuracy of last epoch was better, it will top at the last best accuracy or if while in every 5 epoch running, if the loss of last epoch would be less, it wills stop at the last smallest loss defining epoch and save and use the best model.

5) Novelty: Previous information described the model, technological aspects, and applications of skin cancer recognition, whereas this report focuses on early checking of running epochs so the best model can be used, also reducing size, and adjusting data sets sizes help enhancing model accuracy and reduce losses.