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(57) Abstract :

The present invention generally relates to a system for skin cancer prediction an acquisition unit for acquiring images from a camera; a pre-processing unit for removing noise and unwanted hair from the skin lesion thereby enhancing image parameters by removing and reducing the unwanted parts of the image or the background to intensify the image quality by increasing its visibility; a segmentation processing unit for separating the region of interest of the image by considering each pixel of the image with a similar attribute; a feature extraction unit for extracting a set of features from the skin lesions using Asymmetry, Border, Color, Diameter, (ABCD) and Grey Level Co-occurrence Matrix (GLCM) technique; and a control unit comprises a MSVM classifier for classifying the input images into one or more of a cancer, non-cancer, or early cancer stage of the image upon comparing the set of features with a pre-stored images and features values.

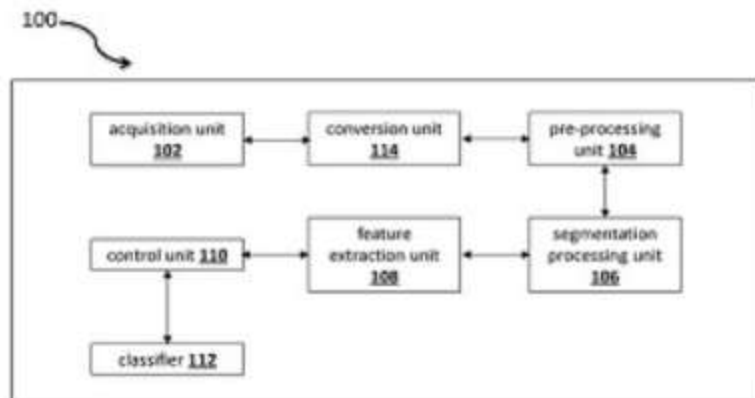


Figure 1