

Method for the recovery of images in databases of skin cancer

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Abstract

Deep learning is widely used for the classification of images since the ImageNet competition in 2012 (Zaharia et al. in *Common ACM* 59(11):56–65, 2016, [1]; Tajbakhsh et al. in *IEEE Trans Med Imaging* 35(5):1299–1312, 2016, [2]). This image classification is very useful in the field of medicine, in which there is a growing interest in the use of data mining techniques in recent years. In this paper, a deep learning network was selected and trained for the analysis of a set of skin cancer data, obtaining very satisfactory results, as the model surpassed the classification results of trained dermatologists using a dermatoscope, other automatic learning techniques, and other deep learning techniques.

Palabras clave:

Deep learning, Medical images, Clinical data analysis.