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«Новосибирский государственный технический университет»

Кафедра иностранных языков технических факультетов

**реферат**

по дисциплине «Иностранный язык»

Тема: Overview of advanced computer vision systems for skin lesions characterization

Рецензия:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Реферат**

The headline of the article is «Overview of advanced computer vision systems for skin lesions characterization». It is published in the journal «IEEE. Transactions on Information Technology in Biomedicine. 2015». The authors of the article are Ilias Maglogiannis and Charalampos Doukas.

The purpose of the article is to present the installation, the visual features used lesion classification, and the methods for defining them. The authors show the most prominent techniques for skin lesion classification.

The first part focuses on the interest of the biomedical scientific community for computer-supported skin lesion during the last years. First authors write that skin cancer is among the most frequent types of cancer and one of the most malignant tumors.

convolutional networks are generally used for classification tasks where

the output data is a single class label. However, many visual tasks require the

output result to contain a class label for each pixel. So, Ciresan et al. proposed their

own method of using a convolutional network which involves training the network

in the sliding-window mode to predict the class label of each pixel. Unfortunately,

this strategy has several drawbacks