ai4skin ™

...to be a step ahead...

AI4SKIN

AI4SKIN is an innovative solution designed to support doctors in early melanoma diagnosis.

It's a system of specialized algorithms for the automatic recognition of skin cancer for epiluminescence microscopy (ELM) images with the potential to be used in doctor's offices and other health care units for screening for early melanoma. Thanks to Artificial Intelligence and Machine Learning (Deep Learning) algorithms, it recognizes melanocytic nevi on the basis of photos taken with a videodermoscope.

AI4SKIN supports the doctor in image analysis, accelerates access to professional early diagnosis and eliminates the risk of incorrect image recognition by focusing on the methods of processing, analyzing and classifying images of skin melanocytic nevi with the use of 4 image assessment strategies.

Problem

70% — Steady increase morbidity and mortality of melanoma: from 30% after the age of 50 to even 70% after the age of 80

62% — The effectiveness of the diagnosis of melanoma by a general practitioner is 62%, while the correct diagnosis of non-threatening lesions is only 36%

90% — Early diagnosis allows 90% of cases to be cured

3 — Average waiting time for dermatologist within the National Health Fund is 1-3 months, in some clinics up to 6 months.

Solution

A diagnostic tool in the hands of a high-availability GP, dermatologist, surgeon or oncologist.

Creation of an anthology of melanocytic changes, enabling the formalization of expert knowledge of dermatologists

Automation of algorithms based on the commonly used methods, such as: Stolz algorithm (the so-called primary ABCD rule), the Argenziano strategy, the Menzies strategy, the pattern analysis algorithm (the so-called chaos and patterns algorithm)

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