Intelligent Mirror: Detecting Skin Cancer (Melanoma) using Convolutional Neural Network with Augmented Reality Feedback

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Abstract

Human: Is that mole developing on the face leads to some risk towards the skin?
Mirror: Yes.
Human: I don’t know if I was not aware of the fact until now.
Mirror: Shall I go ahead and fix up an appointment with the dermatologist on this weekend: Saturday 11am?
Mirror: Sounds Good!
Please check your email the appointment confirmation.

In this paper we propose a system (a health mirror) an application of internet of health (IOH)
which monitors the sun exposed parts of the human body, pulls the attention of the user if it detects something and recommends to see the doctor and also has the capability to classify the type of skin cancer (if detected) using the current state-of-art convolutional neural network in deep learning.

References

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Index Terms

Computer Science Artifical Intelligence

Keywords

Convolutional Neural Network - CNN