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Automated Detection of Retinal Disease using Deep Learning

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Abstract

Vision is one of the most important and precious treasure for a person to perform his day-to-day activities without any hindrance. Retinal disease plays a major role that causes blindness where there have been more than 260 disease identified around the world. Although there are various treatments for these diseases that could cure, many people fail to identify at the initial stage. The major problem is that there aren't enough number of medical staffs and equipment to diagnose at the correct time. This system which is automated to diagnose retinal diseases will be able to predict the disease within a short time of period by just giving the fundus image as the input. The main purpose of this system is to serve the maximum number of people and to detect the disease at the correct time, especially in developing countries where there isn't much medical support.

Keywords: Deep learning, Convolutional Neural Network