03 Eye fundus image classification

Context

Millions of people suffer from diabetic retinopathy, the leading cause of blindness among working aged adults. Aravind Eye Hospital in India hopes to detect and prevent this disease among people living in rural areas where medical screening is difficult to conduct.

Dataset and data description (kaggle competition)

https://www.kaggle.com/c/aptos2019-blindness-detection/overview

Related publications

1. Zhou et al., "A foundation model for generalizable disease detection from retinal images", *Nature*, 2023.

2. Tsinakis, et al. " Deep learning for diabetic retinopathy detection and classification based on fundus images: A review" *Comp. in Biology and Medicine*, 2021.