



Multimedia y Visión
por Computador



Retinal Images

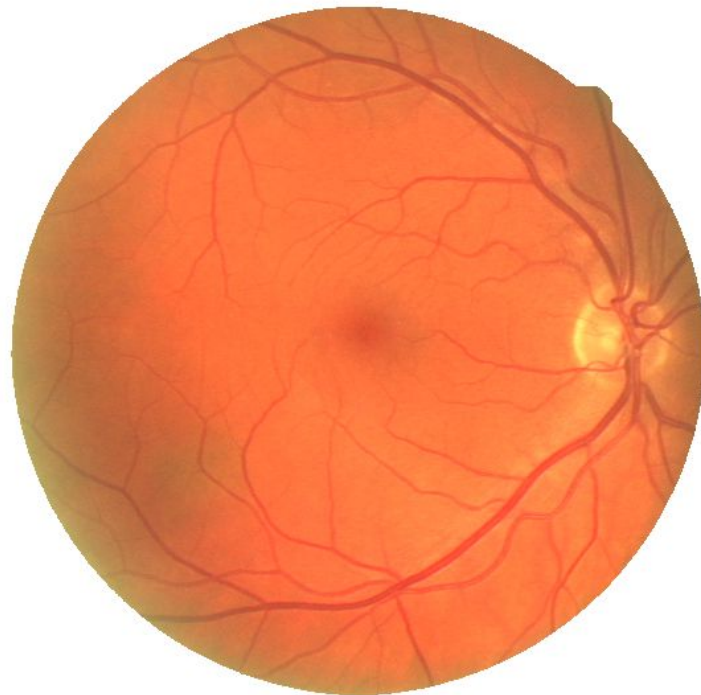
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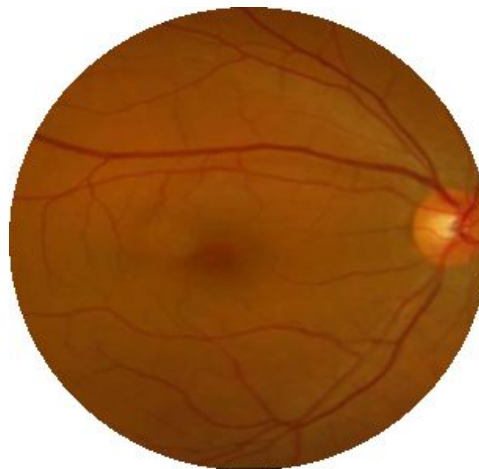
Problem Introduction

Retinal images play an important role in **understanding, diagnosing, and predicting** different eye pathologies as well as a variety of general diseases

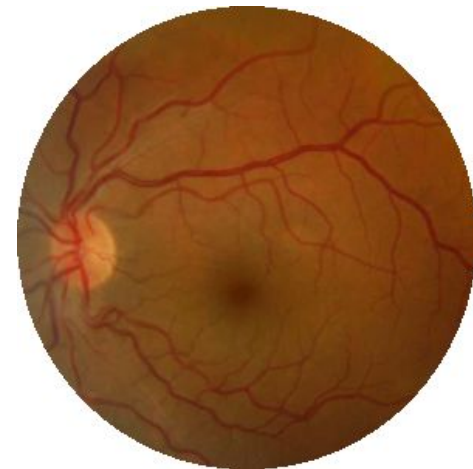


Problem Introduction (II)

Diseases characterised by retinal vascular tree changes that if not detected in time, represent **one of the most common causes of blindness**



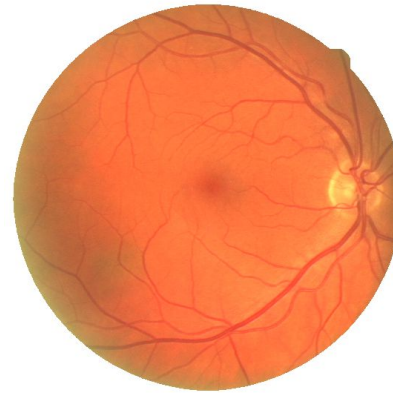
Normal tortuosity



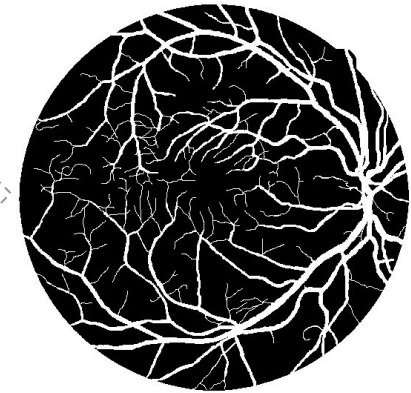
High tortuosity

Problem Introduction (III)

A manual detection of a vascular tree is a tedious time-consuming task that needs both **training** and **concentration** due to complex structures and image low contrast



Original Image



Manual
Detection



Thanks

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