

ABSTRACTRETINAL IMAGE ANALYSIS SYSTEMS AND METHODS

5 A platform is proposed for automated analysis of retinal images, for obtaining
from them information characterizing retinal blood vessels which may be useful
in forming a diagnosis of a medical condition. A first aspect of the invention
proposes that a plurality of characteristics of the retina are extracted, in order to
provide data which is useful for enabling an evaluation of cardiovascular risk
10 prediction, or even diagnosis of a cardiovascular condition. A second aspect
uses fractal analysis of retinal images to provide vascular disease risk prediction,
such as, but not limited to, diabetes and hypertension.

[FIG 1]

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