

Claims:

1. A method of processing a non-stereo fundus image to identify whether a plurality of glaucoma indicators are present, the method comprising:
 - 5 performing a texture analysis by extracting numerical parameters from the fundus image;
determining whether the numerical parameters meet a quality criterion; and
only if the determination indicates that the numerical parameters meet the quality criterion, analyzing the fundus image by a plurality of image processing algorithms to
10 determine whether the glaucoma indicators are present.
2. The method according to claim 1 wherein the texture analysis comprises at least one of:
 - (i) a wavelet decomposition; or
15 (ii) measuring the degree to which the image contains a plurality of predetermined image features.
3. The method according to claim 1 in which the determining is performed using an adaptive model trained to perform the determination using training data comprising (i)
20 images which are known to either meet or not meet a quality criterion, and (ii) the corresponding numerical parameters.
4. The method according to claim 1, further comprising before performing the texture analysis, converting the fundus image into a predefined format if the image is not
25 already in that format.
5. The method according to claim 1 further comprising extracting further numerical parameters from the fundus image, said further numerical parameters being used as control parameters in one or more of the image processing algorithms.
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6. A computer system comprising:
 - a memory to store a non-stereo fundus image; and
a processor arranged to process the non-stereo fundus image to identify whether a plurality of glaucoma indicators are present, the processor to:

perform a texture analysis by extracting numerical parameters from the fundus image,

determine whether the numerical parameters meet a quality criterion, and

only if the determination indicates that the numerical parameters meet the

5 quality criterion, analyze the fundus image by a plurality of image processing algorithms to determine whether the glaucoma indicators are present.

7. A non transitory computer readable storage medium storing instructions, which when executed by a processor of a computer system, cause the processor to perform a
10 method, comprising:

performing a texture analysis by extracting numerical parameters from a fundus image,

determining whether the numerical parameters meet a quality criterion, and

only if the determination indicates that the numerical parameters meet the quality

15 criterion, analyzing the fundus image by a plurality of image processing algorithms to determine whether the glaucoma indicators are present.