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LIST OF SYMBOLS AND ABBREVIATIONS

AHE	-	Adaptive histogram equalization
AMD	-	Age related macular degeneration
AUC	-	Area under the ROC curve
B	-	Blue color channel in RGB image
$B(x, y)$	-	Blue component pixel value in RGB image
CCD	-	Charged-coupled device
CAD	-	Computer-aided detection or diagnosis
CLAHE	-	Contrast limited adaptive histogram equalization
CDF	-	Cumulative density function
ROC	-	database Retinopathy online challenge database
DR	-	Diabetic retinopathy
DR	-	Diabetic Retinopathy
DIARETDB0	-	Diabetic retinopathy image database 0
DIARETDB1	-	Diabetic retinopathy image database 1
DRIVE	-	Digital retinal images for vessel extraction
$f(x, y)$	-	Discrete digital image
$f_{green}(x, y)$	-	Discrete green color channel (G)
$f_{red}(x, y)$	-	Discrete red color channel (R)
$e(x, y)$	-	Estimation function
Fnr	-	False negative rate
Fpr	-	False positive rate
FROC	-	Free-response receiver operating characteristics curve
G	-	Green color channel in RGB image
$G(x, y)$	-	Green component pixel value in RGB image

<i>GT</i>	-	Ground truth $I(x, y)$ Intensity value at image point (x, y)
HA	-	Haemorrhage(s)
HE	-	Hard exudate(s)
HE	-	Histogram equalization
	-	in the field of retinal ophthalmology
LSB	-	Least significant bit
$r(x, y)$	-	Light received by the pixel coordinate (x, y)
$p(x, y)$	-	Local property of a pixel
MD	-	macular degeneration
MM	-	Mathematical Morphology
MESSIDOR	-	Methods to evaluate segmentation and indexing techniques
MA	-	Microaneurysm(s)
•	-	Morphological closing
⊕	-	Morphological dilation
⊖	-	Morphological erosion
◦	-	Morphological opening
MSB	-	Most significant bit
NPDR	-	Non Proliferative Diabetic Retinopathy
F_n	-	Number of false negatives
F_p	-	Number of false positives
T_n	-	Number of true negatives
T_p	-	Number of true positives
OD	-	Optic Disc
OD	-	Optic Disc
PPV	-	Positive predictive value
PDF	-	Probability density function
$g(x, y)$	-	Processed image
PDR	-	Proliferative Diabetic Retinopathy

ROC	- Receiver operator characteristics
RGB	- Red (R), green (G) and blue (B) colour space
R	- Red color channel in RGB image
$R(x, y)$	- Red component pixel value in RGB image
$rgreen(x, y)$	- Reflectance component for green color channel
Sn	- Sensitivity
SE	- Soft exudate(s) also known as cotton wool spots
$i(x, y)$	- Source illumination
Sp	- Specificity
STARE	- Structured analysis of the retina
Tnr	- True negative rate
Tpr	- True positive rate