Advanced Database Technologies in a Diabetic Healthcare System

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Overview of RETINA

- Retina Electronic Medical Record
- ‘Live’ retinal image capture
- Retinal Image Analysis
- Risk profiling using K-trees (RKNN)
- Sub-population targeting using CHive
Risk assessment of each patient

List of significant sub-populations to be further investigated

 Retina-EMR

Retinal Image Analysis

Risk Profiling using K-trees

Sub-population Targeting using CHive

RETINA
Retinal Image Analysis

BROWSE RETINA IMAGES
First Previous Record 1 of 1 Next Last
Name: XXX XXXXX
NRIC: XXXXXXXX
Date Screened: 16/8/2002
CUP/DISC:
Center.X: 248
Center.Y: 580
Radius.X: 52
Radius.Y: 52
Size.X.Ratio: 0.557692
Size.Y.Ratio: 0.596154
Exudates:
Haemorrhages:
Vessel:

Right Eye
View

Click to View Full Size
Risk Profiling (K-trees)
Sub-population (CHive)