Vessel segment

1

Profiles | Plot | Delete

1 (1240,106)	8.45 px	
2 (1240,107)	8.44 px	
3 (1240,108)	8.44 px	
4 (1239,109)	8.43 px	
5 (1239,110)	8.44 px	
6 (1239,111)	8.47 px	
7 (1239,112)	8.51 px	
8 (1238,113)	8.57 px	
9 (1238,114)	8.66 px	
10 (1238,115)	8.77 px	
11 (1238,116)	8.90 px	
12 (1238,117)	9.04 px	
13 (1237,118)	9.19 px	
14 (1237,118)	9.31 px	
15 (1237,119)	9.40 px	

Include | Exclude | Select all

No. diameters	341
Mean diameter	10.4208 px
Std. dev. diameters	0.7541 px
Min. diameter	8.4325 px
Max. diameter	11.9026 px
Segment length	340.2... px
Diameter / length	0.0306
Tortuosity	1.0070

Visualisation

☑ Centre ☑ Diameters
☑ Edges ☑ Selected
☐ Labels ☑ Optic disc

Image

◉ Colored Image

◯ Green Channel Image

Image Analysis

Close

Vessel segment

1 ▼

[Profiles] [Plot] [Delete]

```
 1 (1617,303)  8.36 px
 2 (1616,304)  8.37 px
 3 (1615,304)  8.38 px
 4 (1614,305)  8.38 px
 5 (1613,305)  8.38 px
 6 (1612,306)  8.35 px
 7 (1612,306)  8.30 px
 8 (1611,307)  8.23 px
 9 (1610,307)  8.15 px
10 (1609,308)  8.06 px
11 (1608,308)  7.99 px
12 (1607,308)  7.93 px
13 (1606,309)  7.88 px
14 (1605,310)  7.85 px
15 (1604,310)  7.82 px
```

[Include] [Exclude] [Select all]

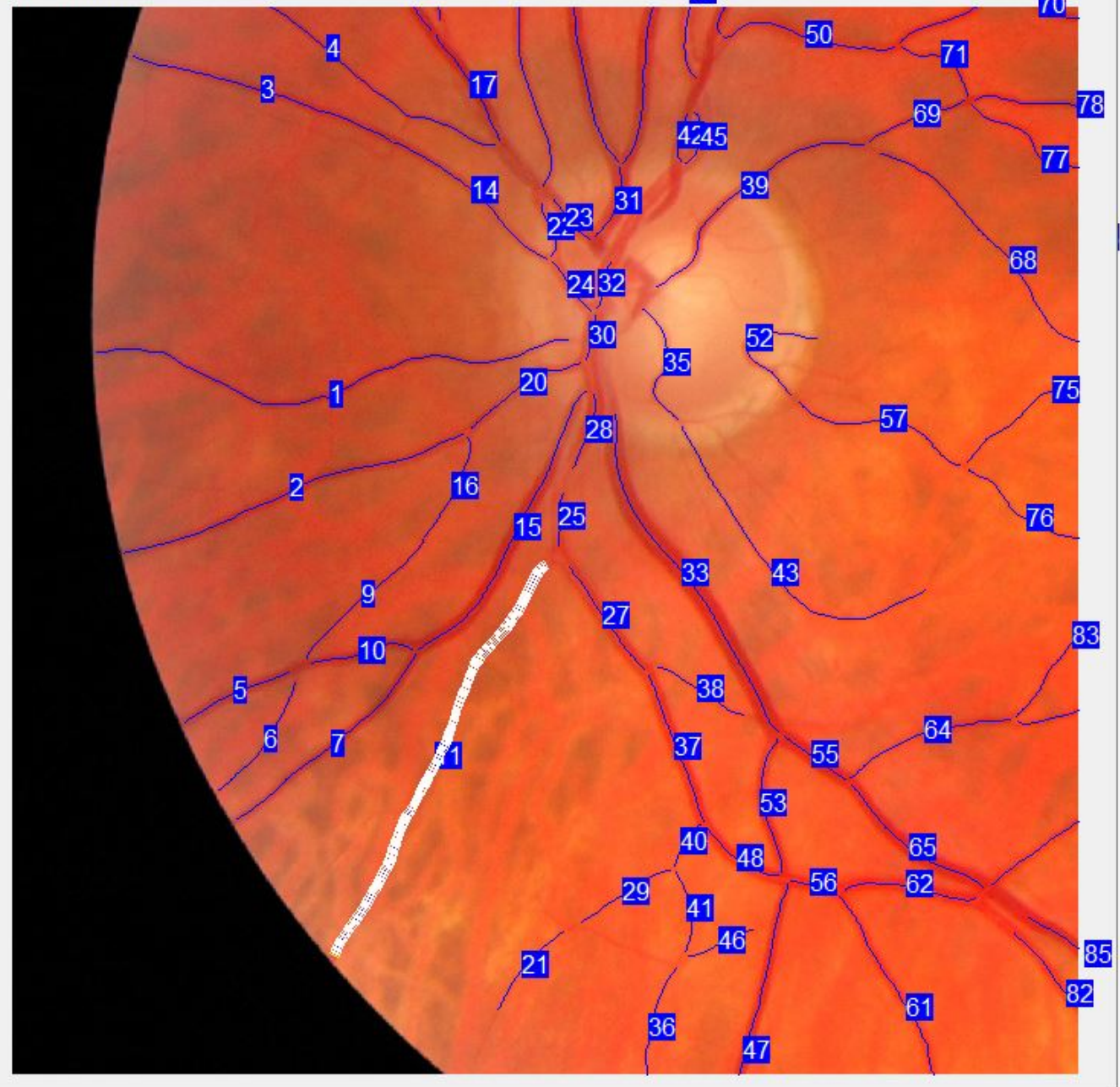|	
No. diameters	405
Mean diameter	8.2318 px
Std. dev. diameters	0.6709 px
Min. diameter	6.8000 px
Max. diameter	9.7546 px
Segment length	419.9... px
Diameter / length	0.0196
Tortuosity	1.0089

Visualisation

☑ Centre ☑ Diameters

☐ Edges ☑ Selected

☑ Labels ☑ Optic disc

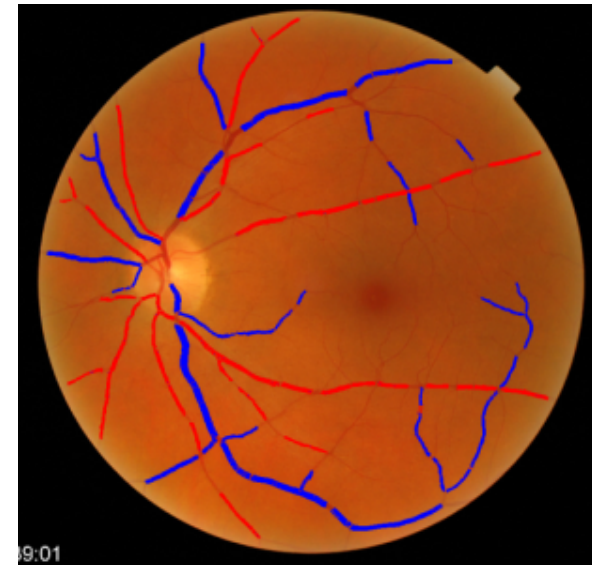### Image

◉ Colored Image

◯ Green Channel Image

Image Analysis

[Close]

Automated Arteriole and Venule Recognition in Retinal Images using Ensemble Classification

Automated system for measurement of A-V ratio and quantification of A-V nicking in retinal images, which may be of use in identifying those at high risk of cardiovascular events, in need of early intervention.

Test performance	Arterioles	Venules
Detection rate	91%	77%
False +ve rate	9%	23%

Fraz et al. VISAPP 2014