Supplemental Material: Deep Retinal Image Understanding (ID #398)

This document contains more qualitative examples, at a bigger size to be easier to observe:

- Pages 1-2: DRIVE qualitative examples of blood vessel segmentation.
- Pages 3-4: STARE qualitative examples of blood vessel segmentation.
- Pages 5-6: DRIONS-DB qualitative examples of optic disc segmentation. DRIU results are plotted in blue, human annotation 1 in green (used as gold standard) and human annotation 2 in cyan.
- Pages 7-9: RIM-ONE qualitative examples of optic disc segmentation. DRIU results are plotted in blue, human annotation 1 in green (used as gold standard) and human annotation 2 in cyan.

DRIVE qualitative examples 1

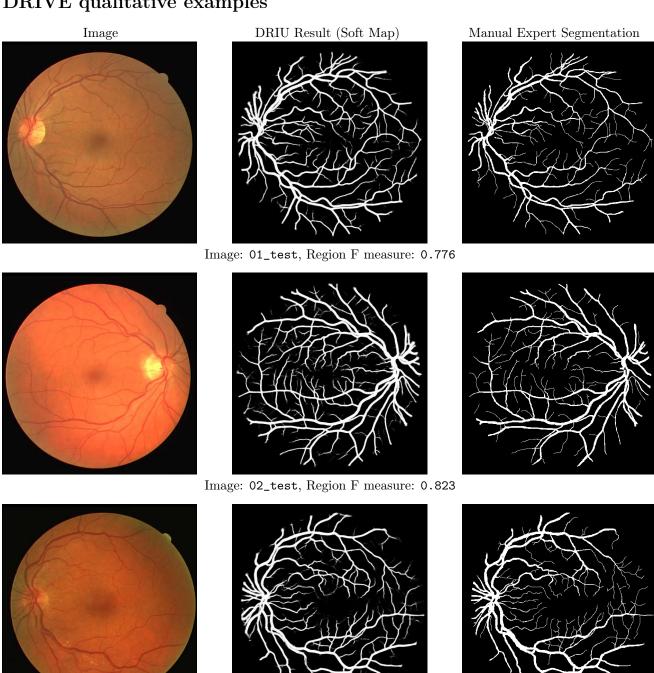


Image: 03_test, Region F measure: 0.838

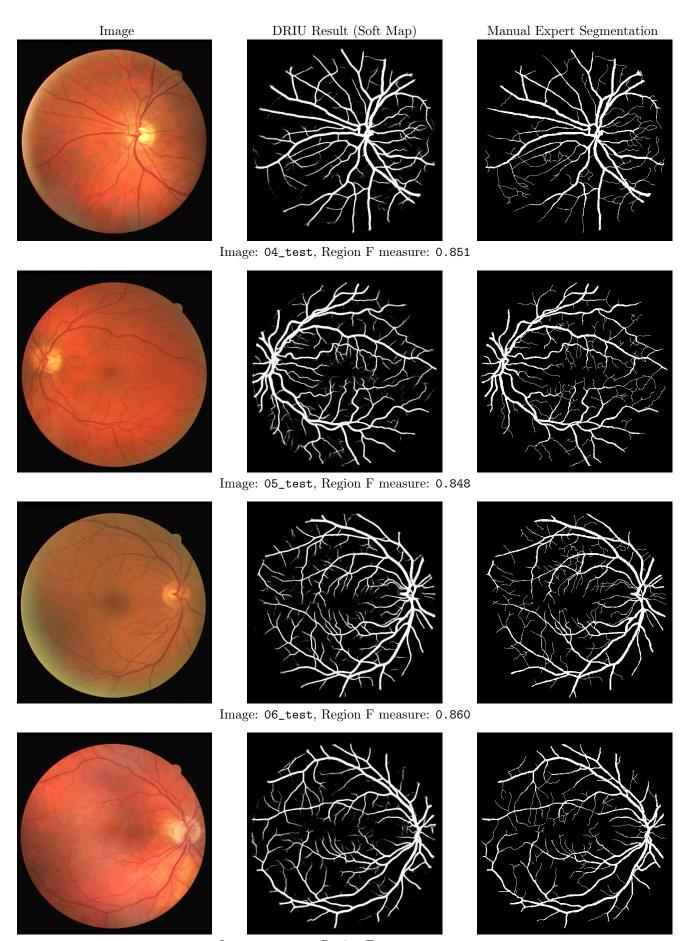


Image: 07_test, Region F measure: 0.874

2 STARE qualitative examples

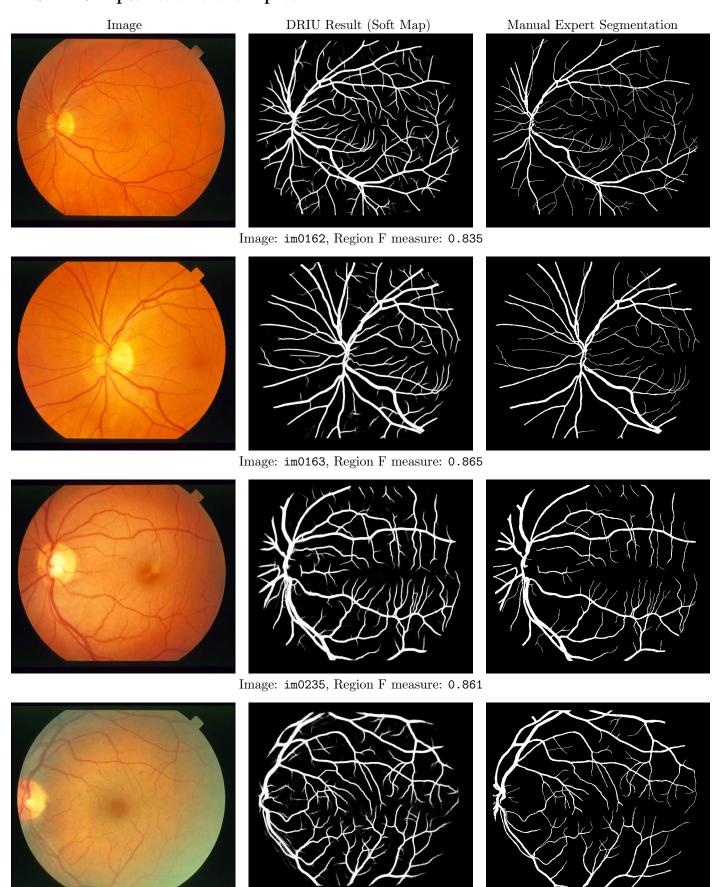


Image: im0239, Region F measure: 0.814

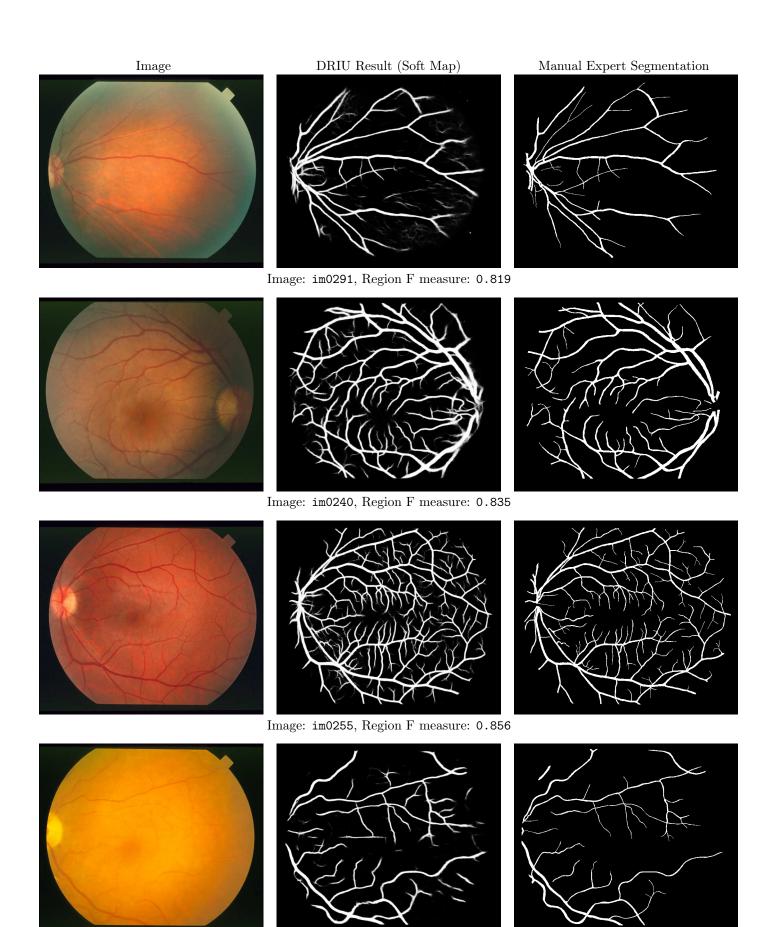
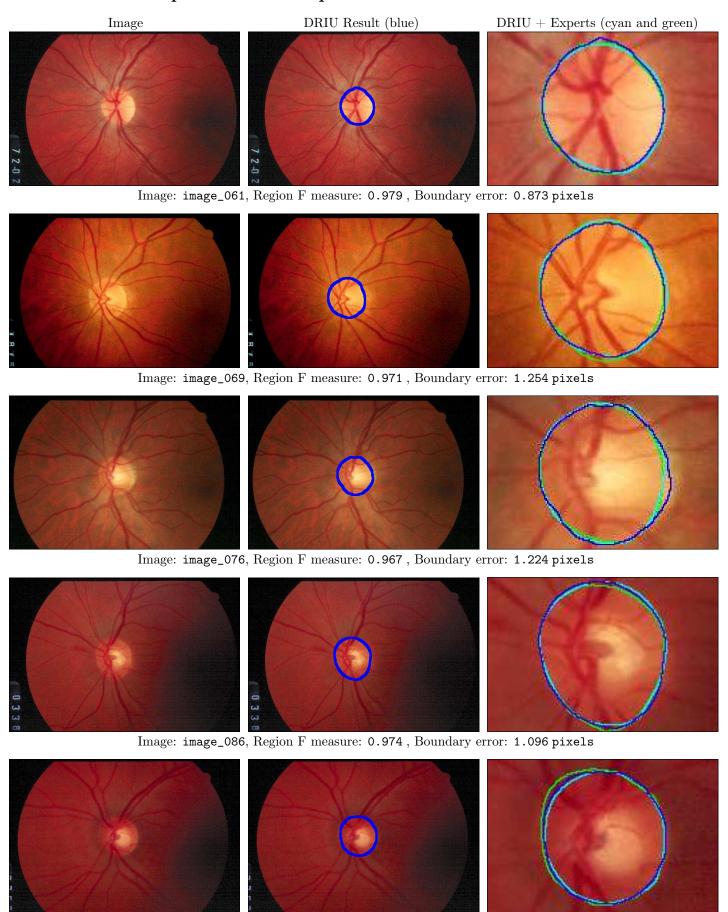


Image: im0319, Region F measure: 0.756

3 DRIONS-DB qualitative examples



 $Image: \verb|image_090|, Region F measure: 0.972|, Boundary error: 1.295| \verb|pixels||$

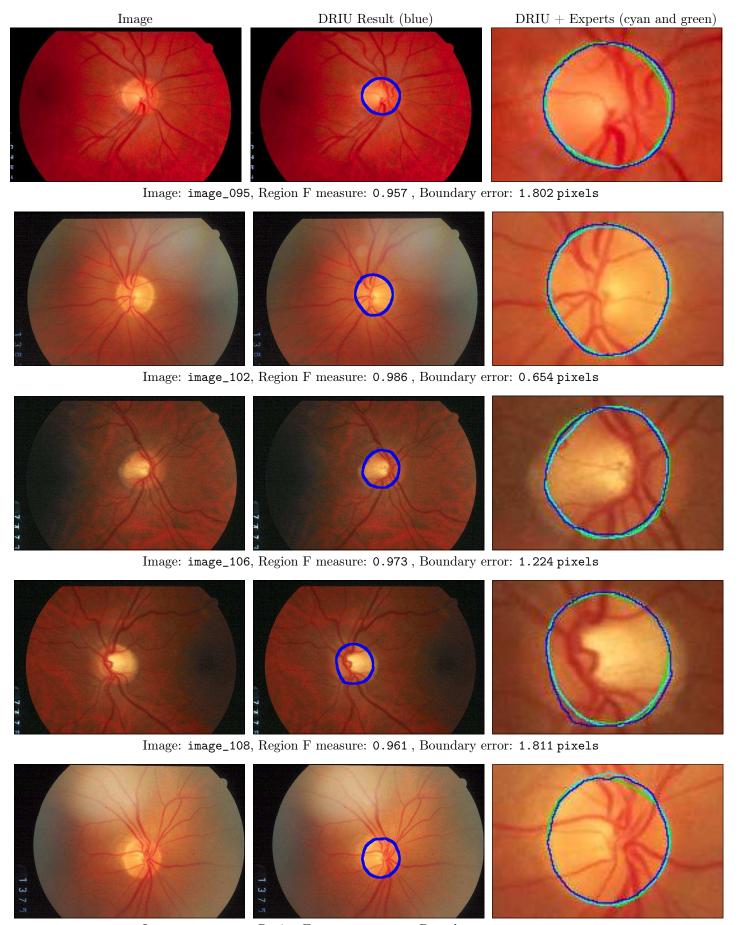
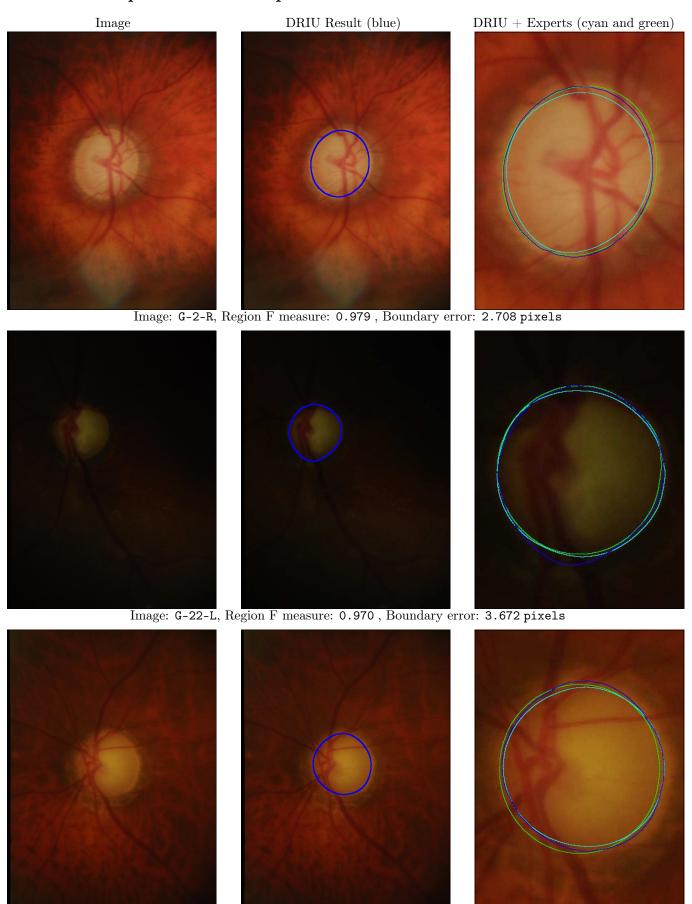


Image: image_110, Region F measure: 0.968, Boundary error: 1.416 pixels

4 RIM-ONE qualitative examples



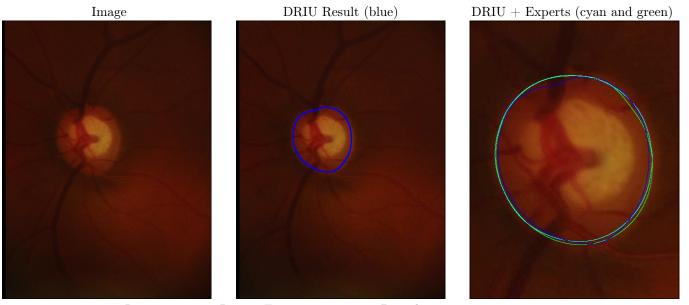


Image: N-51-L, Region F measure: ${\tt 0.968}$, Boundary error: ${\tt 4.880}\,{\tt pixels}$

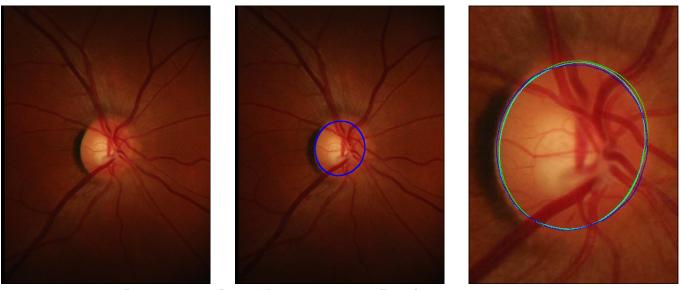


Image: N-18-R, Region F measure: ${\tt 0.969}$, Boundary error: ${\tt 4.058}\,{\tt pixels}$



Image: N-32-R, Region F measure: ${\tt 0.977}$, Boundary error: ${\tt 3.105}\,{\tt pixels}$

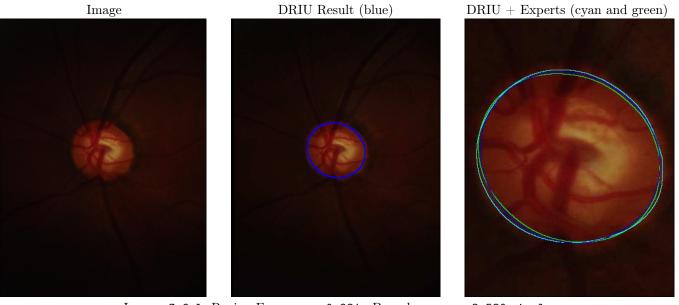


Image: S-9-L, Region F measure: 0.981, Boundary error: 2.580 pixels

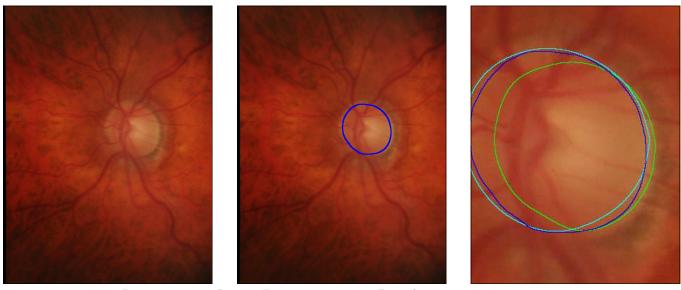


Image: S-34-L, Region F measure: 0.860 , Boundary error: $17.264 \, \text{pixels}$

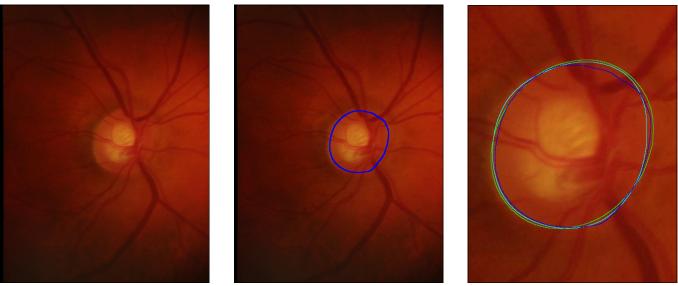


Image: S-35-R, Region F measure: ${\tt 0.961}$, Boundary error: ${\tt 5.381}\,{\tt pixels}$