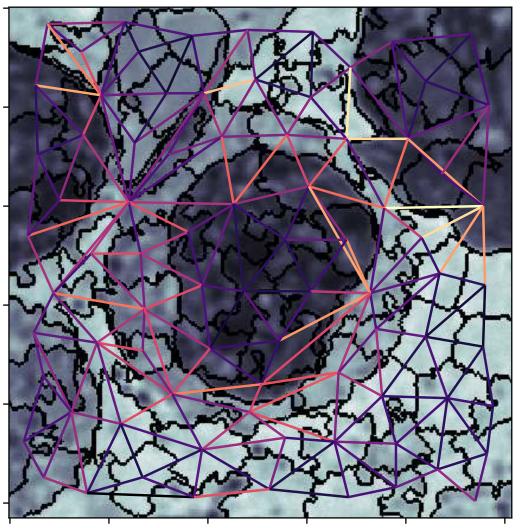
#### Yuli Wu Contour Refinement of Leukocyte Segmentations in Scans of Stained Bone Marrow

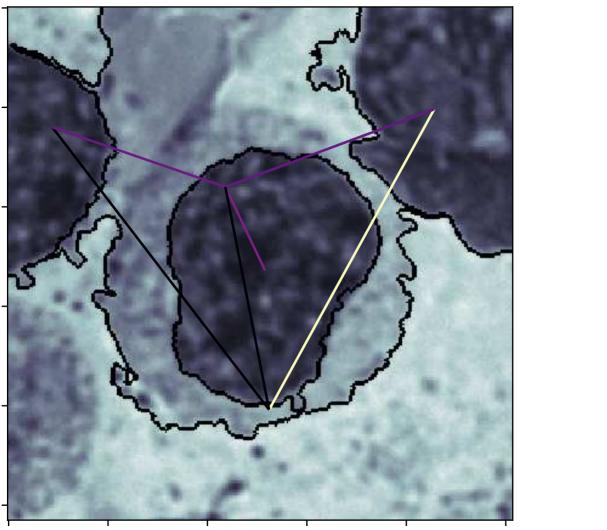


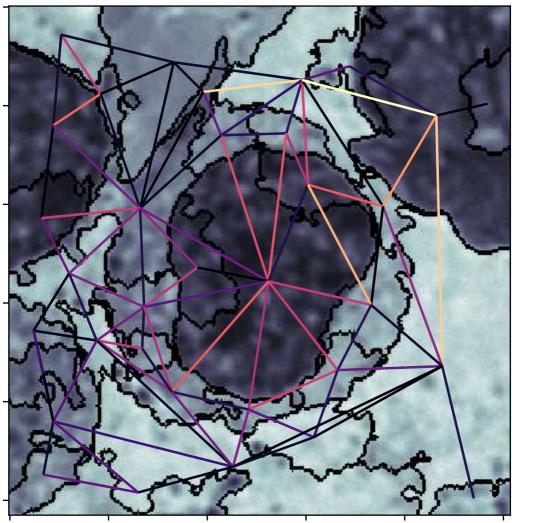
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# RNTHAACHEN

# Region Adjacency Graphs







Similar adjacent superpixels are merged

Not effective

# Methodology

#### Normalisation





### Preprocessing

#### Segmentation





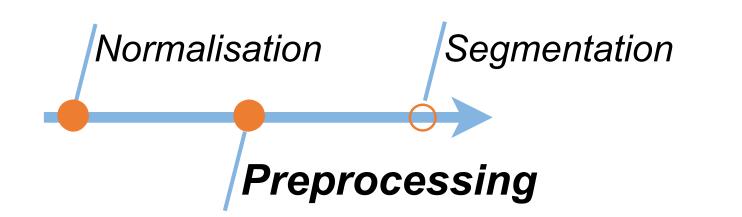




Threshold = 0.04

#### Threshold = 0.06

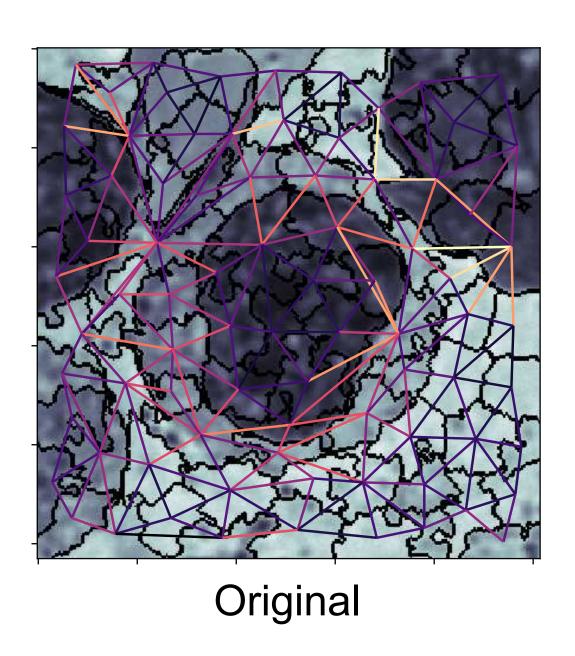
### Original

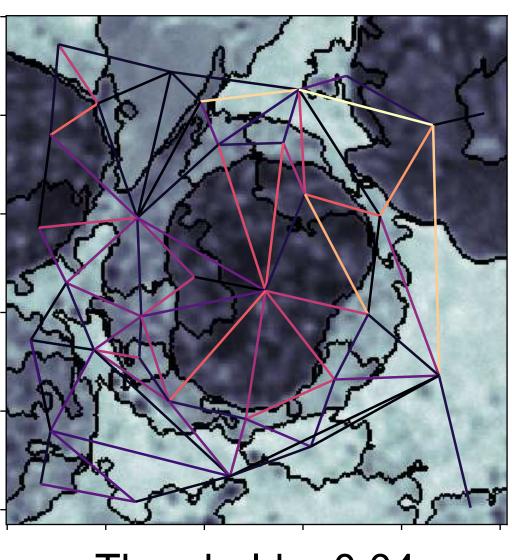


# Methodology

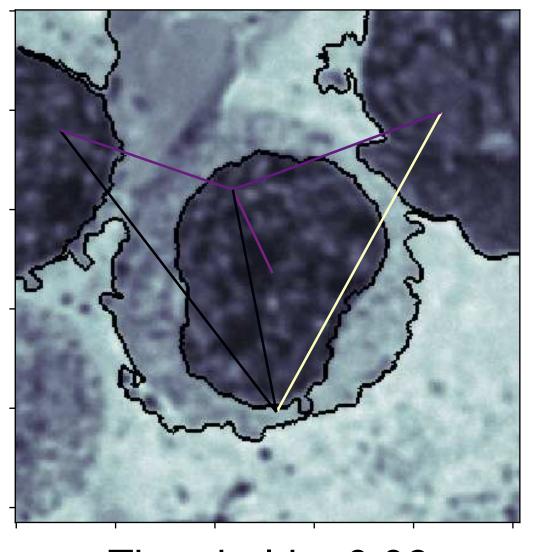
# Region Adjacency Graphs

- Similar adjacent superpixels are merged
- Not effective





Threshold = 0.04

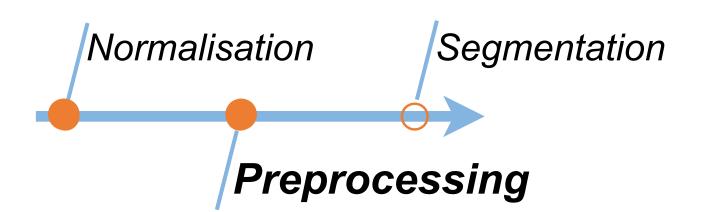


Threshold = 0.06





## **L0 Gradient Minimisation**



# Methodology

- Given I to find S
- Counting function non-zero gradients: C(S)
- Constraint:

$$\min \left\{ \sum (S - I)^2 + \lambda \cdot C(S) \right\}$$



