Yuli Wu

Contour Refinement of Leukocyte Segmentations in Scans of Stained Bone Marrow

Lehrstuhl für
Bildverarbeitung

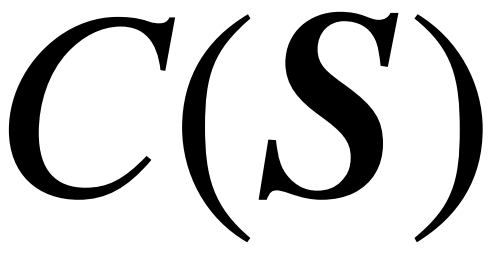
RWTH AACHEN
UNIVERSITY

L0 Gradient Minimisation

18

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

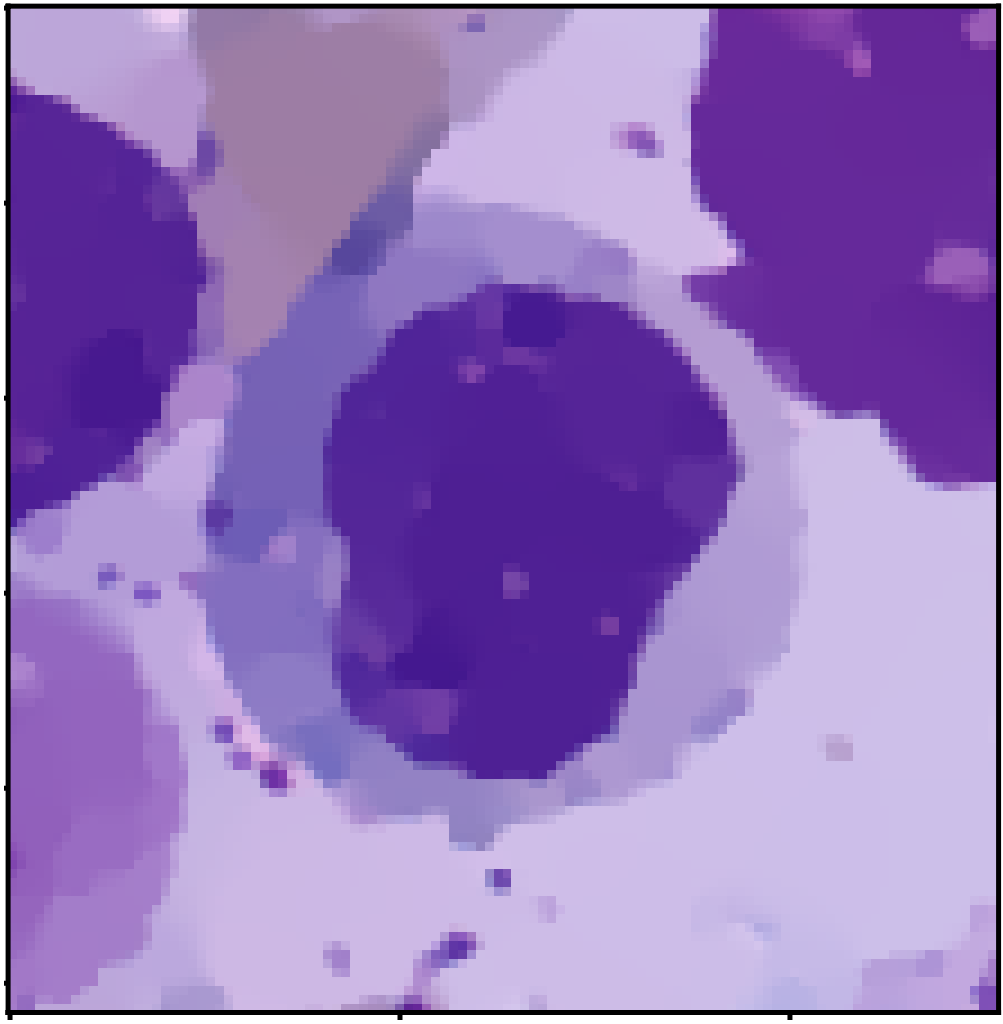
- Given I to find S


C(S)

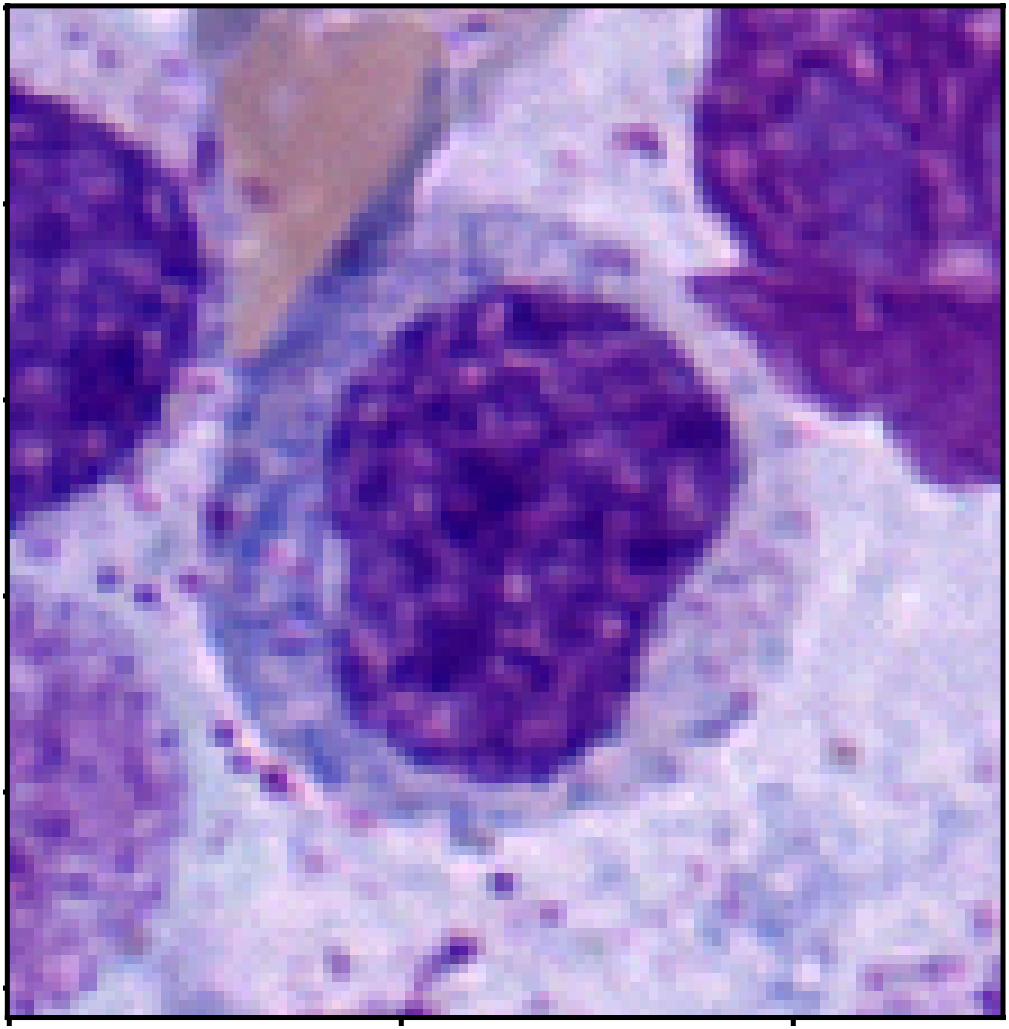
- Counting function non-zero gradients:

- Constraint:

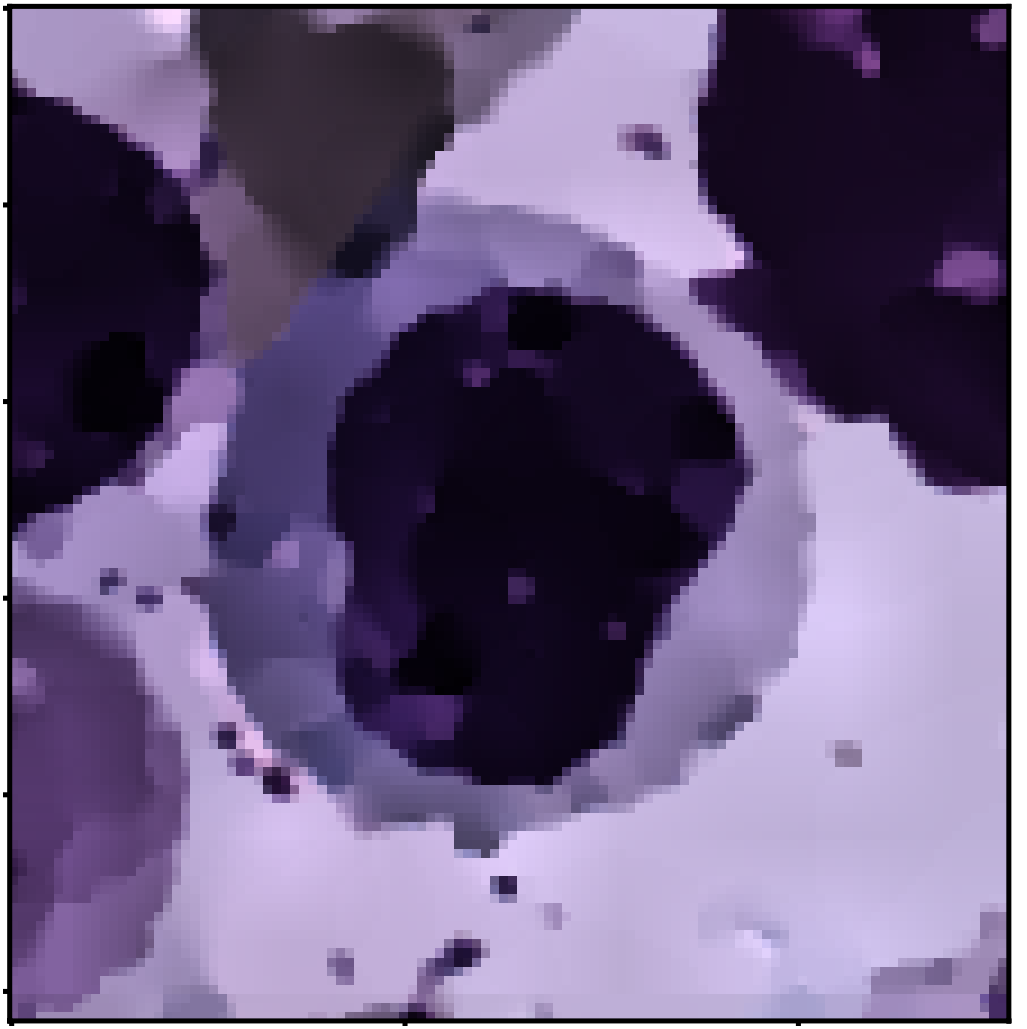
L0 Smoothing



Original Image

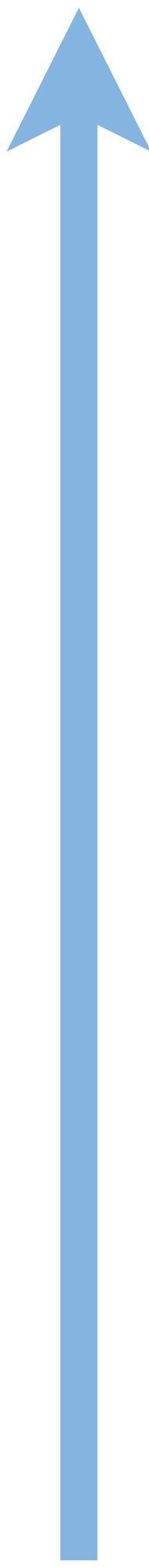


CLAHE of L0



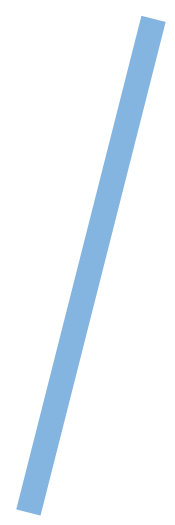
Methodology

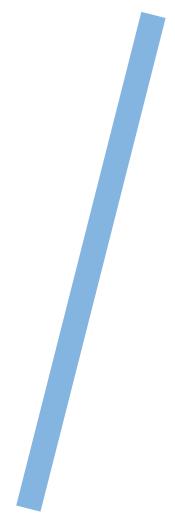
Normalisation

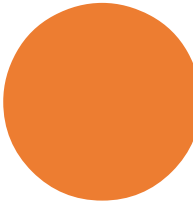


Preprocessing

Segmentation



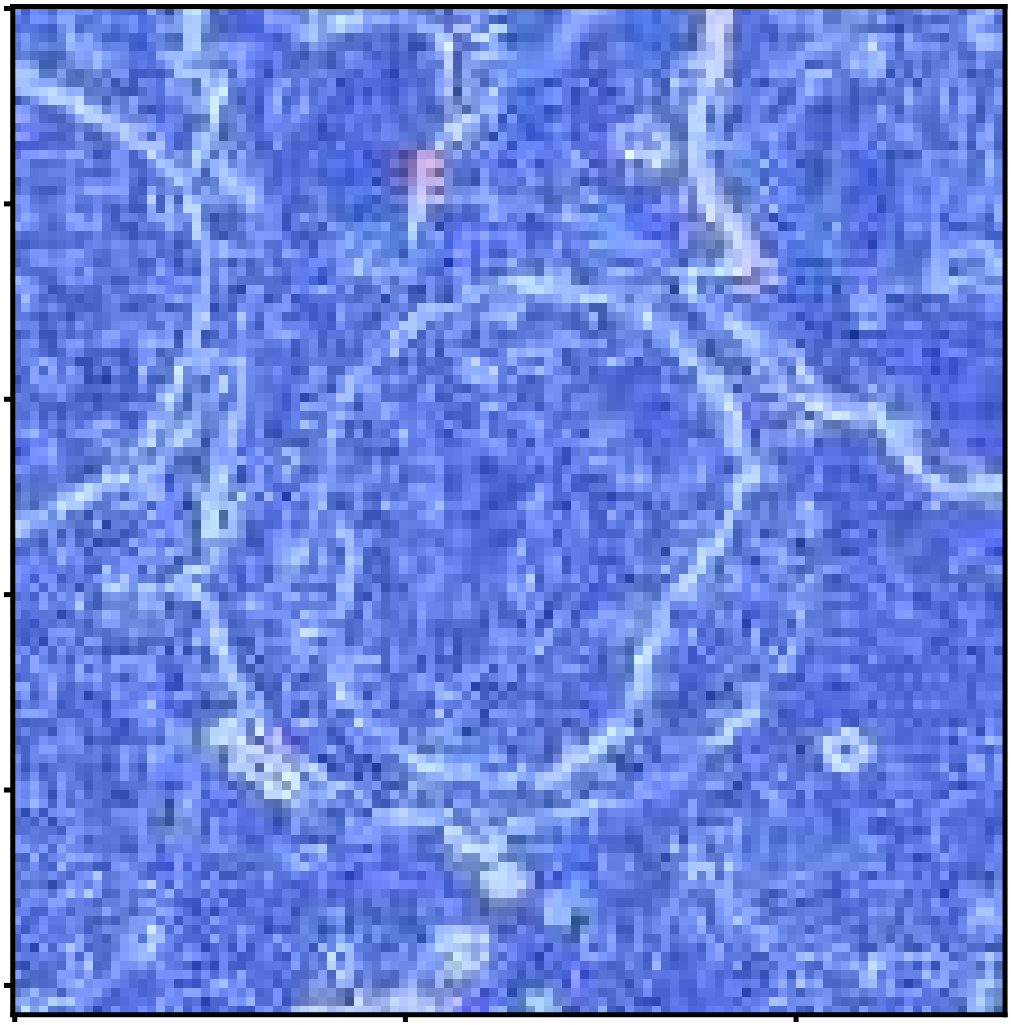




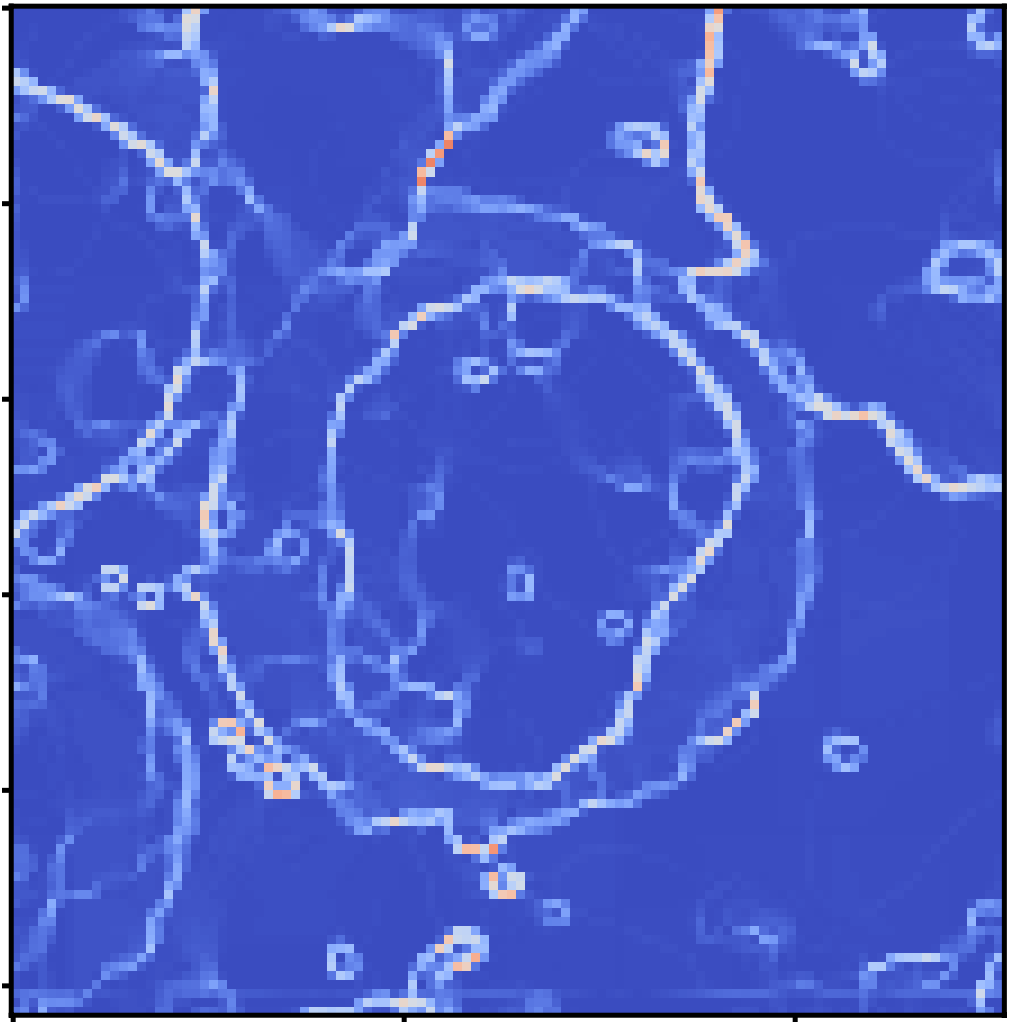
Yuli Wu

Contour Refinement of Leukocyte Segmentations in Scans of Stained Bone Marrow

Gradient (Original)

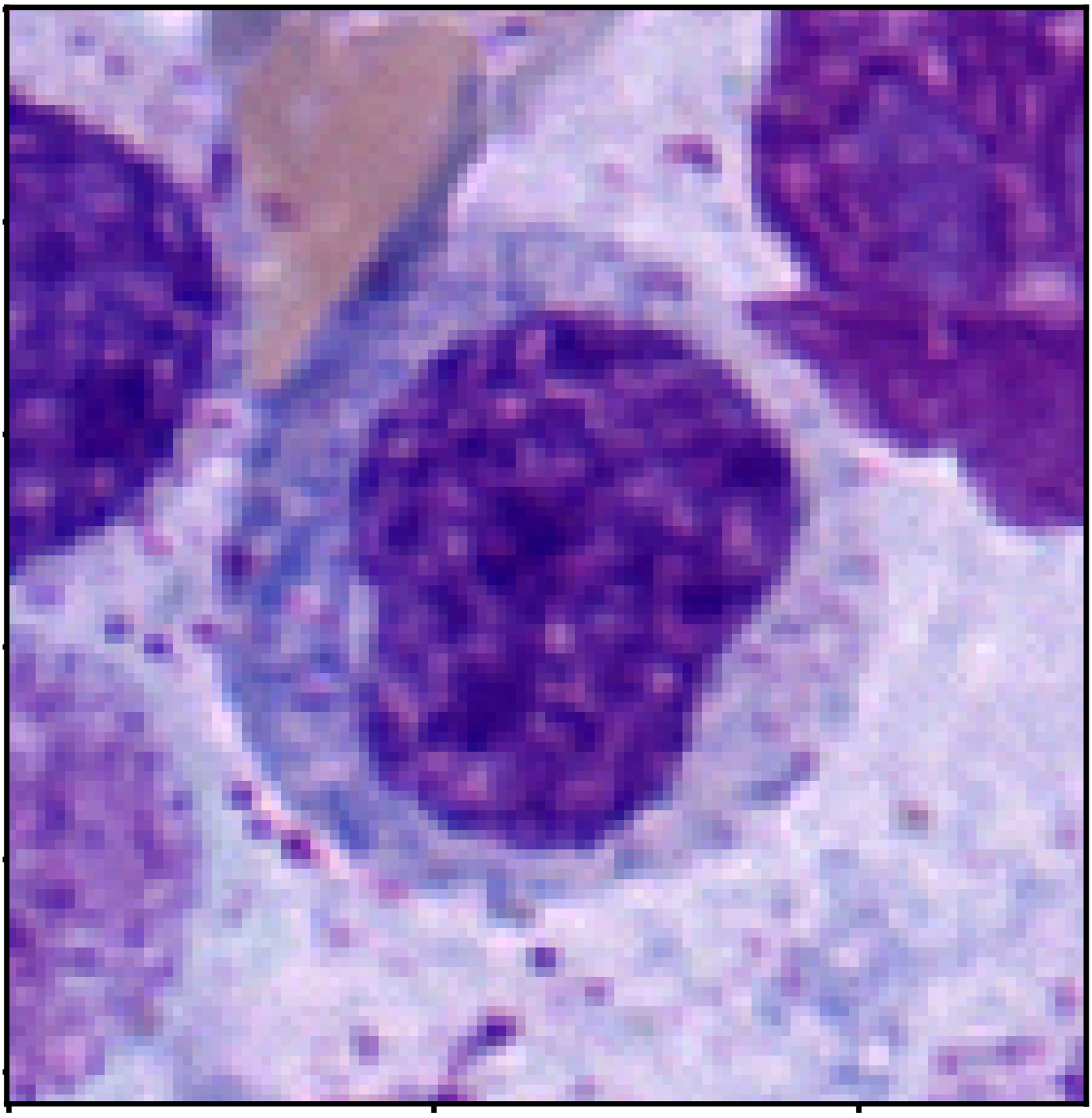
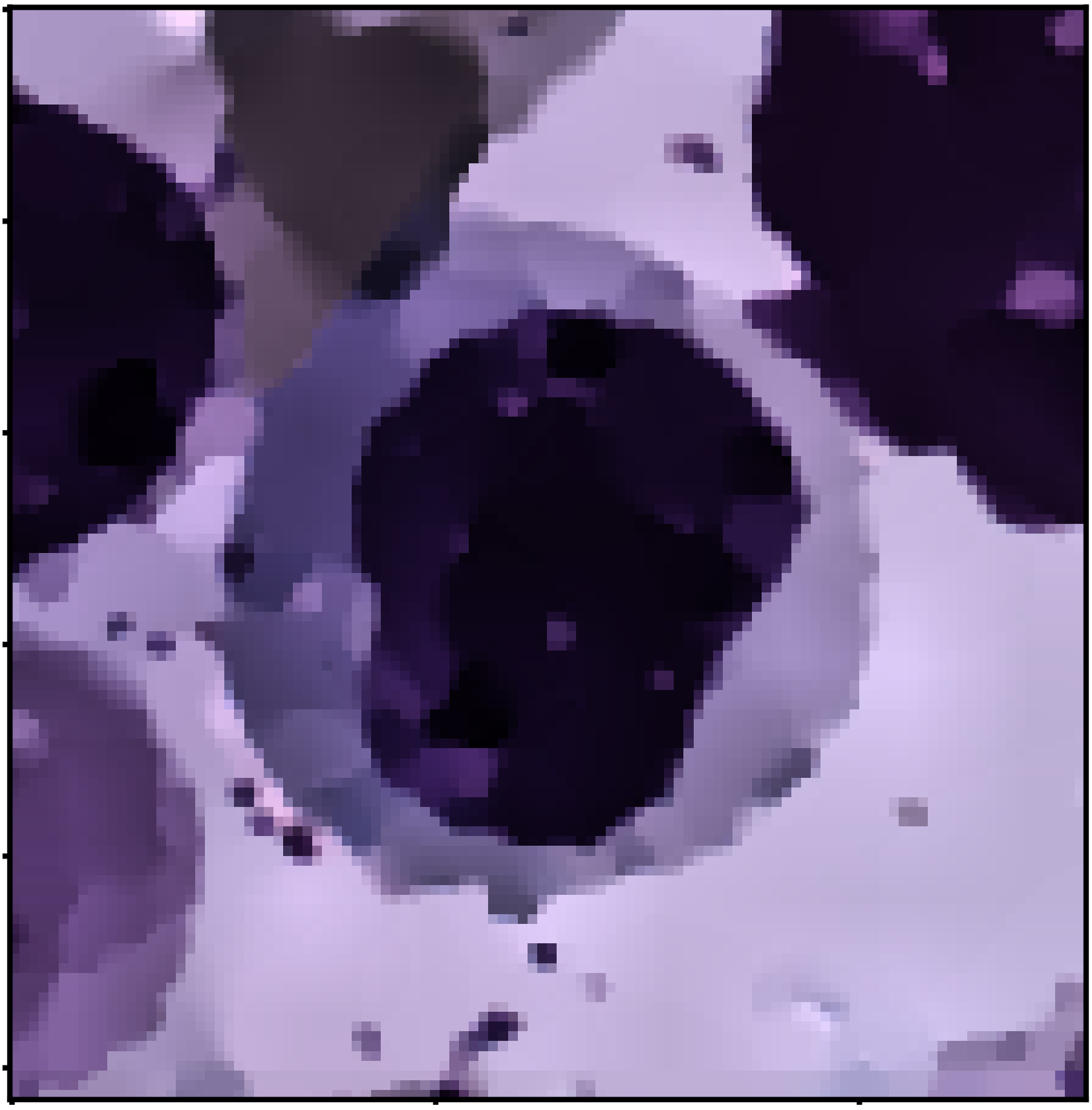


Gradient (CLAHE of L0)



19

Original Image



CLAHE of L0