CMSC 630 Project part 2

Image segmentation

Project deadline: 19th April 2021 11:59pm UTC-05:00

Bartosz Krawczyk, Ph.D.
Department of Computer Science
School of Engineering
Virginia Commonwealth University

Image segmentation

- 1. Implement one selected edge detection algorithm.
- 2. Implement dilation and erosion operators.
- 4. Implement two segmentation techniques (they must be implemented by you, not API calls):
- + histogram thresholding single threshold that divides image into two segments: foreground (cells) and background (everything else).
- + clustering (k-means recommended, examine the effect of different values of k parameter on the segmentation)
- 5. In your project report, please present example results before and after edge detection / dilation / erosion /segmentation for each respective class of cells (seven in total)