

techniques^[1].

dataset.

Instance Segmentation with Deep Spectral Clustering



Xuan Huang, 2022214400, Big Data Engineering, x-huang22@mails.tsinghua.edu.cn Jiatao Hu, 2022214230, Computer Technology, hjt22@mails.tsinghua.edu.cn



• To investigate whether Spectral Clustering with Deep Learning could work on high difficulty instance segmentation task.

Motivation

Abstract

Problem Formulation

- •Dataset : Train + Test = 78 + 52 labeled histology images containing glandular objects from digitized whole-slide images
- •Number of Class: 2(Glandular Objects or **Background**)
- •Task: Instance Segmentation

Reference

[1] Barnes M, Dubrawski A. "Deep Spectral Clustering for **Object Instance Segmentation"**, Workshop track - ICLR, 2018.

[2] Ulrike von Luxburg. "A tutorial on spectral clustering". Statistics and Computing, 17(4):395-416, 2007