**Existing Methods** 

## Introduction

- Detection + Segmentation
  - Mask R-CNN: The Paradigm
- Semantic based
  - Deep Contour<sup>[1]</sup>, etc.

[1] Chen, H., Qi, X., Yu, L., & Heng, P. A. DCAN: Deep Contour-Aware Networks for Accurate Gland Segmentation.





## Chapter 2

Deep Pixel Embedding



