- Task: Pixelwise, instance-level, maybe multi-class

- Difficulties:

    - Object Feature + Spatial Information

    - #Instance unknown

    - Dense objects

- Detection + Segmentation

  - Mask R-CNN: The Paradigm

- Semantic based

  - Deep Contour[1], etc.

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

Yuli Wu
Instance Segmentation of Dense Objects via Deep Pixel Embedding