XIANGYI ZHANG

Computer Vision, Deep Learning

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EDUCATION

ShanghaiTech University   *Shanghai, China*
School of Information Science and Technology, M.S. in Computer Science   *Sep. 2018 - Present*
Advisor: Xuming He, Major in Computer Vision and Machine Learning

Yunnan University   *Yunnan, China*
National Pilot School of Software, B.S. in Information Security.   *Sep. 2014 - Jun. 2018*

SKILL

Research Interest: Few-shot Semantic Segmentation, Biological Image Segmentation, Interactive Segmentation.
Programming: Python, Matlab. **Framework:** Pytorch
Courses: Deep Learning(A), Computer Vision(A).

WORK EXPERIENCE

ShanghaiTech University *School of Information Science and Technology*   *Shanghai, China*
Deep Learning Teaching Assistant   *Sep. 2019 - Jan. 2019*
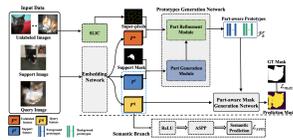
PUBLICATIONS

Part-aware Prototype Network for Few-shot Semantic Segmentation
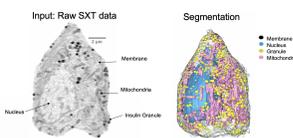*Xiangyi Zhang*, Yongfei Liu*, Songyang Zhang, Xuming He*
European Conference on Computer Vision (ECCV), 2020

RESEARCH EXPERIENCE

Part-aware Prototype Network for Few-shot Semantic Segmentation
- Part-based prototype representation reserves more detailed information.
- Unlabeled data helps to capture object appearance variations.
- Add semantic branch for learning a better visual representation.
- Our method outperforms the SOTA with a sizable margin of 3.32% and 3.30% for 1-shot and 5-shot setting.

Auto-segmentation of Soft X-Ray Images reveals beta cell architectural variances during Glucose and Ex-4 stimulation
- Propose a novel spatio-temporal segmentation cell model of Pancreatic β-cells.
- Developed a strategy with biological analysis to present the organelles interactive behaviors under drugs stimulations in a systematic way.
- Generate a correlative model from multi biological modalities.

HONORS & AWARDS

Award of Scholarship, Yunnan University.
Award of Excellent Student Cadre, Yunnan University.