Xiangyu Li

lxycust@gmail.com · (+86) 188-456-10648

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Education

Harbin Institute of Technology (HIT), Harbin, China 2018 – Present

Ph.D. Candidate in Computer Science (CS).

Harbin Institute of Technology (HIT), Harbin, China 2016 – 2018

Master student in Optical Engineering.

Changchun University of Science and Technology (CUST), Changchun, China 2010 – 2014

B.S. student in Optoelectronic Information Engineering.

Research Interests

My research mainly focuses on deep learning-based medical image analysis, especially on learning with imperfect labels. Moreover, I am also super interested in uncertainty estimation of deep neural networks and its applications in medical image analysis.

Publications

1. **Xiangyu Li**, Xinjie Liang, Gongning Luo, Wei Wang, Kuanquan Wang and Shuo Li. "Ambiguity-aware breast tumor cellularity estimation via self-ensemble label distribution learning." in ***Medical Image Analysis*** 89(2023):102944. (***Top Journal; IF=10.9***)
2. **Xiangyu Li**, Gongning Luo, Wei Wang, Kuanquan Wang and Shuo Li. "Curriculum Label Distribution Learning for Imbalanced Medical Image Segmentation." in ***Medical Image Analysis*** 89(2023):102911. (***Top Journal; IF=10.9***)
3. **Xiangyu Li**, Gongning Luo, Wei Wang, Kuanquan Wang, Yue Gao, Shuo Li. "Hematoma Expansion Context Guided Intracranial HemorrhageSegmentation and Uncertainty Estimation," in ***IEEE Journal of Biomedical and Health Informatics***, 26(3): 1140-1151.(***Top Journal; IF=7.7***)
4. **Xiangyu Li**, Xinjie Liang, Gongning Luo, Wei Wang, Kuanquan Wang and Shuo Li. "ULTRA: Uncertainty-Aware Label Distribution Learning for BreastTumor Cellularity Assessment." Medical Image Computing and Computer-Assisted Intervention (***MICCAI***), pp. 303-312. Springer, Cham, 2022 (***Top conference***)
5. **Xiangyu Li**, Gongning Luo, Kuanquan Wang. "Multi-step cascaded networks for brain tumor segmentation." Medical Image Computing and Computer-Assisted Intervention (MICCAI)-BrainLes. pp.163-173 Springer, Cham, 2019.
6. **Xiangyu Li**, Gongning Luo, Kuanquan Wang, ... & Shuo Li. (2023). The state-of-the-art 3D anisotropic intracranial hemorrhage segmentation on non-contrast head CT: The INSTANCE challenge. arXiv preprint arXiv:2301.03281.

Honors and Awards

1. Excellent graduate student, Harbin Institute of Technology Jun. 2023
2. First Class of Academic Scholarship, Harbin Institute of Technology Sep. 2018
3. Second Class of Academic Scholarship, Harbin Institute of Technology Jun. 2017
4. Daheng Wang' scholarship, Changchun University of Science and Technology Jun. 2018
5. First Class of Academic Scholarship, Changchun University of Science and Technology Jun. 2012
6. First Class of Academic Scholarship, Changchun University of Science and Technology Jun. 2011

Skills

- Programming Languages: Python > C# > Matlab
- Platform: Pytorch, Tensorflow, Linux, 3D Slicer.

♡ Services

Reviewer: IEEE-JBHI, MedIA, MICCAI, TMI.