

BAI Fan

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Education

- **The Chinese University of Hong Kong, PhD candidate;**
Electronic Engineering; 2020.08-2024.07
Supervisor: Prof. Max Q.-H. Meng;
- **Northeastern University, Bachelor;**
Faculty of Robot Science and Engineering, Robot Engineering; 2016.09-2020.07
GPA: 92/100, Rank: 1/60, 3 National Scholarships and First-class Scholarships;

Research and Interest

The theory and application of active learning, weakly/self-/un-/semi-supervised learning. Such as image, point cloud, video, object detection, and semantic segmentation and other tasks that are difficult to label.

Academic Experience

- **Discrepancy-based Active Learning for Weakly Supervised Bleeding Segmentation in Wireless Capsule Endoscopy Images (Under Review)** MICCAI 2022
•Fan Bai, Xiaohan Xing, Yutian Shen, Han Ma, Max Q.-H. Meng
- **Task-relevant Feature Replenishment for Cross-centre Polyp Segmentation (Under Review)** MICCAI 2022
•Yutian Shen, Ye Lu, Xiao Jia, Fan Bai, Max Q.-H. Meng
- **LGPNet: Alleviating A Few Labeled Data and Large-Scale Network Dilemmas in Grasping Detection (Under Review)** IROS 2022
•Tianhe Wu, Hongbo Chu, Fan Bai, Wenxing Liu, Dan Wang
- **Hierarchical Policy with Deep Reinforcement Learning for Non-prehensile Multi-object Rearrangement (Under Review)** Biomimetic Intelligence and Robotics
•Fan Bai, Fei Meng, Jianbang Liu, Jiankun Wang, Max Q.-H. Meng
- **Active Semi-supervised Grasp Pose Detection with Geometric Consistency** ROBIO 2022
•Fan Bai, Delong Zhu, Hu Cheng, Peng Xu, and Max Q.-H. Meng
- **Shape Tracking of Flexible Morphing Matters From Depth Images** IEEE Sensors Journal
•L. Seenivasan, Fan Bai, Ming Ji, Xiaoyi Gu, Zion Tsz Ho Tse, Hongliang Ren
- **Robotic Grasp Pose Estimation Oriented Deep Learning Algorithm Based on Residual Network** ISCSIC 2019
•Fan Bai, Renjie Yao, Maoning Chen, Zhexin Cui
- **Point Cloud Semantic Segmentation Based on Fusion of Points and Sparse Voxels** Outstanding Undergraduate Thesis

Other Awards

- ◆ Won The Meritorious Winner in International Mathematical Contest in Modeling for 2 times
- ◆ National Excellent Project for College Students' Innovation Training Program (Leader)
- ◆ CUHK Vice-Chancellor's PhD Scholarship, Liaoning General Higher Education Outstanding Graduate, Excellent College Students in Shenyang, Shenyang Mayor Scholarship, Top Ten Undergraduates in Northeastern University
- ◆ Github 200★ [awesome-acitve-learning paper list](#)

Skills

- Python, MATLAB, C/C++, Pytorch, Tensorflow, Keras, Robot Operating System (ROS)