JINGJING JIANG

Email: jingjingjiang2017@gmail.com
Website: https://jingjing12110.github.io

EDUCATION

Xi'an Jiaotong University *Mar. 2019 - Present*
Ph.D. in Pattern Recognition and Computer Vision Advisor: Nanning Zheng
Institute of Artificial Intelligence and Robotics

Xi'an Jiaotong University *Sep. 2017 - Jan. 2019*
M.S in Control Science and Engineering Advisor: Nanning Zheng, Xuetao Zhang
Institute of Artificial Intelligence and Robotics

PUBLICATION

- **Jingjing Jiang**, Zhixiong Nan, Yifan Liu, and Nanning Zheng. Granularity-aware visual semantic reasoning for video question answering. (Submitted to CVPR2021)
- **Jingjing Jiang**, Zhixiong Nan, Hui Chen, and Nanning Zheng. Predicting short-term next-active-object through visual attention and hand position. *Neurocomputing*. (Accepted)
- Hui Chen, Zhixiong Nan, **Jingjing Jiang**, and Nanning Zheng. Learning to infer unseen attribute-object compositions. *IEEE TPAMI*. (Submitted)
- Zhixiong Nan, **Jingjing Jiang**, Xiaofeng Gao, Sanping Zhou, Pin Wei, and Nanning Zheng. Inferring Task-driven Attention via Integrating Bottom-up Stimulus and Top-down Guidance. *Pattern Recognition*. (Submitted)
- **Jingjing Jiang**, Peixin Xue, Shitao Chen, Ziyi Liu, Xuetao Zhang, and Nanning Zheng. Line feature based extrinsic calibration of LiDAR and camera. In *ICVES*, 2018.

PROJECTS

Human-Robot Interaction *Jan. 2019 - Jan. 2020*

- **Next-Active-Object Prediction**: proposed a two-stream network that integrates the cues from visual attention and hand positions to predict the next-active-object in human-robot interaction activities. We applied the model to our industrial robot.

Autonomous Driving: Perception *Sep. 2017 - Jan. 2019*

- **LiDAR-Camera Calibration**: proposed a line feature based LiDAR-Camera calibration and online rectification algorithm and used it for our autonomous driving platform.
- **Drivable Area Detection**: proposed an unsupervised approach for detecting drivable area using image and point cloud data and realized the cross-platform transplantation of the algorithm.
- **LiDAR-based Object Detection & Tracking**: proposed an object detection and tracking model based on multi-level enhancement of point cloud to alleviate the sparsity of point cloud and used it for our autonomous driving platform.

SKILLS

Programming: Python, C/C++, MATLAB, Shell
Framework: Pytorch, Tensorflow, Caffe, ROS