



SHAO-HUANG 'SEAN' LU

PERSONAL PROFILE

I am a M.S. student in Robotics at NCTU, I am interested in manipulation, especially building an intelligent system that can automatically put products on the shelf and checkout in retail industry!

CONTACT

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EDUCATION

MS of Graduate Degree Program
of Robotics, Nation Chiao Tung
University
2018-Present

SKILLS

- Develop Tools
 - ROS (Robot Operating System)
 - PyTorch
- Programming
 - C/C++
 - Python
 - Matlab
- Language
 - Chinese
 - English

PROJECTS AND PROFESSIONAL EXPERIENCE

- **PICK AND PLACE SYSTEM**
 - We are aimed to building a system which can automatically pick the object and place it in the shelf with the cue of brand name. We used brandname-based fully convolutional network to find the affordance of the product. The system consists of two robot arms, one with suction gripper and the other with parallel-jaw gripper, the former can pick the target from cluttered environment and the latter is for putting target on the shelf.
 - In the team, I am responsible for **manipulation of dual robot arms**.
- **DARPA SUBTERRANEAN CHALLENGE, 2019**
 - The "SubT" Challenge aimed to seeks a novel approaches to rapidly map, navigate, and search in underground environment automatically.
 - In the team, I am responsible for **navigation of AGV**.

RECENT PUBLICATION

Y.-S. Su, **S.-H. Lu**, P.-S. Ser., W.-T. Hsu, W.-C. Lai, B. Xie, H.-M. Huang, T.-Y. Lee, H.-W. Chen, L.-F. Yu, H.-C. Wang, "Pose-aware Placement with Semantic Labels - Brandname-based Affordance Prediction and Cooperative Dual-Arm Active Manipulation", Accepted by IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS, 2019)"