Yi-Chun Chen

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EDUCATION

National Tsing Hua University (NTHU)   GPA: 3.48/4.3   Last60 GPA: 3.83/4.3   Hsinchu, Taiwan
Bachelor of Science in Power Mechanical Engineering   Sept. 2013 – June 2017
Research Interest: Robotics, Computer Vision, Artificial Intelligence, Dynamic System and Controls

WORKING EXPERIENCE

Dept. of Electrical Engineering, National Tsing Hua University   Hsinchu, Taiwan
Vision Science Laboratory Research Assistant   July 2017 – Present
● Developing a view selection algorithm for 360° videos with Pytorch.
● Integrating vision and natural language processing in 360° videos application.
HIWIN Technologies Corporation   Taichung, Taiwan
Production Management Department Summer Intern   Summer 2015
● Standardized operation procedures for manufacturing ballscrews for newcomers.

PUBLICATIONS

Conference
S.-H. Chou, **Yi-Chun Chen**, K.-H. Zeng, H.-N. Hu, J.-l. Fu, M. Sun, "Self-view Grounding Given a Narrated 360° Video", AAAI Conference on Artificial Intelligence, New Orleans, U.S.A., 2018.
Workshop
S.-H. Chou, **Yi-Chun Chen**, K.-H. Zeng, H.-N. Hu, J.-l. Fu, M. Sun, "Self-view Grounding Given a Narrated 360° Video", International Conference on Computer Vision (ICCV) – Workshop on Closing the Loop Between Vision and Language, Venice, Italy, 2017. ***Spotlight***

RESEARCH EXPERIENCE

Show and Tell in 360° Videos, NTHU   Sept. 2017 – Present
● Devising a model to automatically select salient viewpoints in 360° videos and generate corresponding descriptions.
Blind Grasping, NTHU   July 2017 – Present
● Inventing a grasping system using vision techniques and producing the wearable device for blind people.
Miniature Cell Sorter, NTHU   Oct. 2015 – Oct. 2016
● Constructed and manufactured a miniature flow cytometer using microfluidic chip.
● Designed real-rime recognition system to distinguish particles of 10uM and 15uM in size with OpenCV.

PROJECTS

Soccer Robot, 3rd Prize, NTHU   Feb. 2017 – June 2017
● Implemented A* algorithm with a camera on Matlab for a ROS-based robot's path planning and obstacle avoiding.
● Achieved accurate position control by designing PID controller for DC motors.
Task-oriented Self-driving Mobile Robot, NTHU   Feb. 2016 – June 2016
● Built automobile car with obstacle avoiding, line tracing, balancing, and communication functions.

SKILLS

Programming: Python, C/C++, Java	**Simulation Software**: MATLAB, LTSpice, COMSOL Multiphysics
Libraries: Pytorch, ROS, OpenCV	**3D Modeling**: Inventor, SolidWorks, AutoCAD