Chan-Wei Hu

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Research Interest

Learning to control, reinforcement learning on robotics, human robot interaction and computer vision. My ultimate objective is to build a robot to efficiently interact with human in messy and unstructured environments.

Education

National Tsing Hua University   Hsinchu, Taiwan
M.S. Degree of Electrical Engineering   *Sep. 2017-Present*
Adviced by Prof. Wei-Yu Chiu

National Tsing Hua University   Hsinchu, Taiwan
B.S. Degree of Electrical Engineering   *Sep. 2013-Jun. 2017*
Adviced by Prof. Min Sun

Publication

Omnidirectional CNN for Visual Place Recognition and Navigation   *ICRA 2018*
Tsun-Hsuan Wang, Hung-Jui Huang, Juan-Ting Lin, <u>Chan-Wei Hu</u>, Kuo-Hao Zeng, Min Sun

Liquid Pouring Monitoring via Rich Sensory Inputs   *ECCV 2018*
Tz-Ying Wu, Juan-Ting Lin, Tsun-Hsuan Wang, <u>Chan-Wei Hu</u>, Juan Carlos Niebles, Min Sun

Anticipating Daily Intention Using On-wrist Motion Triggered Sensing   *ICCV 2017*
Tz-Ying Wu, Ting-An Chien, Cheng-Sheng Chan, <u>Chan-Wei Hu</u>, Min Sun

Experience

Academia Sinica   Taipei, Taiwan
Full-Time Research Assistant   *Jul. 2017 - Aug. 2017*
○ Focus on robot navigation and place recognition.

Industrial Technology Research Institute   Hsinchu, Taiwan
Software Engineer   *Jul. 2016 - Dec. 2016*
○ Designed and built the code for speech recognition using deep learning techniques.

Awards

Best Paper Award, *Computer Vision, Graphics, and Image Processing Conference*   *Aug. 2017*

Relevant Courses

○ National Tsing-Hua University:
  - (graduate-level) machine learning, the cutting edge of deep learning, pattern recognition, computer vision, linear system theory, sensing intelligent system, system theory, parallel programming

- (undergraduate-level) design and analysis of algorithms, operating systems, feedback control system, probability, data structure, linear algebra.

Teaching Experience

Teaching Assistant, *Digital Signal Processing Lab*, National Tsing-Hua University   *Fall 2017*
Head Teaching Assistant, *Signal and System*, National Tsing-Hua University   *Spring 2017*
Teaching Assistant, *Computer Vision*, National Tsing-Hua University   *Fall 2018*
Head Teaching Assistant, *System Theory*, National Tsing-Hua University   *Spring 2018*

Skills

- Proficient in Python (Tensorflow, Pytorch, OpenCV), C, Robot Operation System (ROS).
- Comfortable with C++, Java, Matlab