Shih-Han Chou

9F., No.186, Sec. 2, Liming Rd., Nantun Dist., Taichung City, Taiwan.

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Graduate student on electrical engineer.

Passionate about natural language processing, computer vision, robotics and artificial intelligence.

Education

Academic Qualifications.....

National Tsing Hua University

Electrical Engineering, Master student in ACS (automatic control and signal) Lab

GPA: 4.1/4.3

RWTH AACHEN University

• Electrical Engineering, An exchange student for one semester.

National Sun Yat-Sen University

Mechanical and Electromechanical Engineering, GPA: 3.8/4.0 (overall); 3.8/4.0 (major); 3.9/4.0 (last-60)

Rank: Top 7.4 (4th/54)

National Changhua University of Education

Mechatronics Engineering,

Transfer to National Sun Yet-Sen University at September 2011.

Hsinchu, Taiwan

2014-2017

Aachen, Germany

2016–2017

Kaohsiung, Taiwan

2011–2014

Changhua, Taiwan 2010–2011

Publications.....

Conference

- o **Shih-Han Chou**, Yi-Chun Chen, Kuo-Hao Zeng, Ho-Ning Hu, Jainlong Fu, Min Sun, "Self-view Grounding Given a Narrated 360° Video"., AAAI'18
- o Kuo-Hao Zeng, **Shih-Han Chou**, Fu-Hsiang Chan, Juan Carlos Niebles, Min Sun, "Agent-Centric Risk Assessment: Accident Anticipation and Risky Region Localization"., CVPR'17, **spotlight**.

Workshop

• **Shih-Han Chou**, Yi-Chun Chen, Kuo-Hao Zeng, Ho-Ning Hu, Jainlong Fu, Min Sun, "Self-view Grounding Given a Narrated 360° Video"., ICCV'17 - Workshop on Closing the Loop Between Vision and Language.

Master Thesis

o **Shih-Han Chou**, Wei-Yu Chen, Bor-Sen Chen, "Multiobjective Design for Joint Precoding and Equalization of MIMO OFDM Systems with simultaneous post-detection SINR Maximization and Power Consumption Minimization". *Master thesis (under submission)*

Research Experience.

Vision Science Lab

 360° Video grounding, storytelling (2017 - present) Accident anticipation (2017)

Automatic Control and Signal Lab

Robust control and $H\infty$ control in wireless communication (2014 - 2017)

o Bio-Medical Micro Electro Mechanical Systems Lab

The correlation between Heart Rate Variability and Apnea-Hypopnea Index is BMI dependent (2014) The relation between vertical ground reaction force and heart rate during treadmill running (2013 - 2014)

Notable Projects....

Computer Vision for Visual Effects Term Project

https://sites.google.com/site/computervisionvisual effects g11/home

o Image Processing Final Project

GUI for Image processing and Image Compression implementation.

Honors and Awards

o NSYSU Undergraduate Outstanding Reports of Special Project (2013)

Topic: Estimating the relation between vertical ground reaction force and heart rate with different exercising strength during treadmill running.

Previous Employment

Research Assistant

Vision Science Lab (National Tsing Hua University)

MediaTek Summer Intern

[○] MediaTek

HIWIN

HIWIN Summer Intern

Receptionist in The 43th International Symposium on Robotics

International Symposium on Robotics

HIWIN Summer Intern

Hsinchu, Taiwan

June 2017-present

Hsinchu, Taiwan

July 2014-August 2014

Taichung, Taiwan *July 2013–August 2013*

Taipei, Taiwan 28, August 2012–30, August 2012

Taichung, Taiwan July 2012–August 2012

Technical and Personal skills

- o Programming Languages: C, C++, Python, Matlab, LATEX
- o Machine (Deep) Learning Platform: PyTorch, Caffe, SciPy, OpenCV, LIBSVM

Interests

- Computer Vision + Machine Learning
- Computer Vision + Natural Language
- Computer Vision + Robotics