NING-HSU WANG

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ABOUT ME

A master/research student at NTHU, Vision Science Lab (VSLab) advised by Prof. Min Sun.
Research Interest: Computer Vision, Machine Learning, Deep Learning
Current Research Topics: Computer Vision, Stereo Matching, Depth Estimation, 3D Reconstruction

EDUCATION

National Tsing Hua University *January 2018 - Present*
Master in Electrical Engineering
GPA: 4.3/4.3

National Chiao Tung University *Sep 2013 - June 2017*
Bachelor in Mechanical Engineering
GPA: 3.41/4.0, Last 60: 3.67/4.0, Ranking: 13/49, 25/99

PUBLICATIONS

360SD-Net: 360° Stereo Depth Estimation with Learnable Cost Volume
- **Ning-Hsu Wang**, Bolivar Solarte, Yi-Hsuan Tsai, Wei-Chen Chiu, Min Sun
- International Conf. on Computer Vision 2019 (ICCV 2019) Workshop, **Spotlight**

EXPERIENCE

Vision Science Lab, National Tsing Hua University *January 2018 - Present*
Research Student
- 360° Stereo Depth Estimation

Young Entrepreneurs of the Future, Epoch Foundation *January 2018 - July 2018*
Participant
- YEF Garage Party (Second Place), YEF Elevator Pitch, YEF Workshop

Atos *August 2017*
On-site Engineer
- Internet System Maintenance

Tokyo Electron Limited Robot Combat *2017*
Participant

Programming Education Product Sales *2014 - 2016*
Part Time Sales
- Taipei International Automation Exhibition Sales
- Department Store Clerk

NCKU Badminton Open *2015, 2017, 2018*

CSL (College Sports League) Badminton Competition, Mechanical Engineering 2014-2016

CSL Badminton Competition, Mechanical Engineering, Northern Taiwan *2013-2016*

Hsinchu District Badminton Competition *2015*
Umpire and Service Judge

University System of Taiwan, Badminton Invitation Competition *2014*
Website Management and Promotion

NCTU Department Badminton Team *2013-2017*

NCTU Piano Club *2014-2017*

NCTU Guitar Club *2013*

PROJECTS

360° Stereo Depth Estimation and 3D Reconstruction *January 2018 - Present*
- Python
- Deep Learning Application on Pytorch

Design of Logistic UAV (Unmanned Aerial Vehicle)
- UAV Surveillance *2017*
- Wireless Unloading Motor Control
- Unloading Mechanism Design
- Body Design

Implementation of *The Lambda Method for Integer Ambiguity Estimation* *2016*
- Matlab Simulation

Object Searching Robot Design *2016*
- Labview
- Ultrasonic Avoidance Design
- Image Processing
- Motor Control

ABILITIES AND CERTIFICATIONS

Programming	**Python, C/C++, Assembly, HTML, CSS**
DL Framework	**Pytorch, TensorFlow**
Software & Tools	Industrial Control & Simulation: **Labview**
	Mathematics Simulation: **Matlab**
	Electrical Circuit Simulation: **LTSpice**
	Computational Fluid Dynamics Simulation: **ANSYS-Fluent**
	Computer-aided Design Drafting Software: **AutoCAD, Solidworks**
Hardware	**Arduino, 8051**
Misc.	**OpenCV, Github, Vim, Linux, LaTeX**
Language	**Fluent in Mandarin (Native)**
	Proficient in English, TOEIC Golden Certification (Score: 900)
	Elementary Proficiency in Japanese (4 semester)

AWARDS

International Conf. on Computer Vision 2019 (ICCV 2019) 360 PI Workshop *2019*
- ***Spotlight Paper***
- **360SD-Net: 360° Stereo Depth Estimation with Learnable Cost Volume**

Young Entrepreneurs of the Future Garage Party, Epoch Foundation *2018*
- *Second Place*

CSL Badminton Competition, Mechanical Engineering *2016*
- *Team Competition, Third Place*

CSL Badminton Competition, Mechanical Engineering, Northern Taiwan *2015*
- *Team Competition, Third Place*

NCTU Sports Competition, Shot put *2016*
- *Fourth Place*

The Best High School Service Team of Taipei *2012*