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

2013

Bachelor in Mechanical Engineering

GPA: 3.41/4.0, Last 60: 3.67/4.0, Ranking: 13/49, 25/99

PUBLICATIONS

$360 \mathrm{SD}\text{-Net: } 360^\circ$ 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

NCTU Guitar Club

Vision Science Lab, National Tsing Hua University Research Student	January 2018 - Present
- 360° Stereo Depth Estimation	
Young Entrepreneurs of the Future, Epoch Foundation $Participant$	January 2018 - July 2018
- YEF Garage Party (Second Place), YEF Elevator Pitch, YEF Worksl	nop
Atos	August 2017
On-site Engineer	3
- 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, Mechanic	cal Engineering 2014-2016
CSL Badminton Competition, Mechanical Engineering, Northern	n 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

360° Stereo Depth Estimation and 3D Reconstruction

- 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** C/C++, Python, Assembly, HTML, CSS Pytorch, TensorFlow **DL Framework** 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 Fluent in Mandarin (Native) Language 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

January 2018 - Present