

Xiaodong Cun

University of Macau, Macau, China

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Education

University of Macau

M.S. IN COMPUTER SCIENCE

Macau China

Sep. 2015 - Exp. June 2018

- GPA:3.4/4
- Image Processing and Pattern Recognition Laboratory
- Supervisor: Chi-Man Pun, Hao Gao

Xidian University

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Xi'an China

Sep. 2010 - Aug. 2015

- Class monitor of 100 students class in full four years.
- Organizing all the activity of students in four years.

Research work

Depth Assisted Full Resolution Network for Single Image-based View Synthesis.

Macau

[HTTPS://ARXIV.ORG/ABS/1711.06620](https://arxiv.org/abs/1711.06620)

Mar. 2017 - Sep. 2017

- Worked with Feng Xu (Tsinghua University), Chi-Man Pun (University of Macau), Hao Gao(Nanjing University of Posts and Telecommunications.)
- 1. We proposed a deep learning based technique for Light Filed reconstruction from a single image, which is the first paper to address this problem.
- 2. Our network firstly utilized the pre-trained depth model as the prior feature of single image-based network, achieving the states-of-the-art performance among other methods.

Image Splicing via Semi-Global Network and Fully Connected CRFs

Macau

SUBMITTED TO ECCV 2018 (UNDER REVIEW)

Nov. 2017 - Mar. 2018

- Worked with Chi-Man Pun (University of Macau)
- 1. We proposed a novel network structure for Image Splicing by comparing the local patch with global image.
- 2. We firstly adopted Fully Connected CRFs in image splicing as the post-processing technique.
- 3. our method achieve state-of-the-art performance among many relevant methods.

Second Order Entropy Image for Multi-modal Image Registration

Macau

SIGNAL PROCESSING: IMAGE COMMUNICATION (SCI)

May. 2016 - Sep. 2016

- Worked with Chi-Man Pun (University of Macau) and Hao Gao (Nanjing University of Posts and Telecommunications)
- By analyzing the traditional local descriptor, we propose a new local descriptor for robust image registration.

Intern Experience

Alibaba Corp.

Hangzhou, China

SOFTWARE ENGINEER INTERN

Jul. 2014 - Sep. 2014

- Participating in the development of new PC version of Taobao Moive website.
- Maintaining the mobile version of Taobao Movie.
- Best creative prize in Wechuang cup of JuHuaSuan department.

Honors & Awards

2013 **Excellence Award**, University's College Students' Innovative Entrepreneurship Competition

Xi'an China

2012 **Third Prize Scholarship**, Annually prize for class representative

Xi'an China

2014 **Best Innovation Award**, We Chuang Programming Contest during intern

Hangzhou China

2018 **Scholarship**, Teaching/Researching Assistant (2015.9 - 2018.3)

Macau China

Teaching Activates

2017 Aut. **CISB112 Introduce to Computer Science**, Teaching Assistant for C++ programming

Macau China

2017 Spr. **CISB121 Digital System**, Teaching Assistant

Macau China

2016 Spr. **CISB335 Computer Graphics**, Teaching Assistant

Macau China

Self Porjects

'JinGe' – Sharing website of original Chinese clothes

Xi'an, China

CORE MEMBER & PROGRAMMER

Sep. 2013 - June 2014

- we build a instgram-like website for sharing the original Chinese clothes.
- This project is for sharing the culture of traditional Chinese clothes. This project aims to create a better UX/UI experience of users in original clothes area.
- This project is a CURD based web framework. We build this project by PHP+MYSQL+APACHE.

Racpider

Xi'an, China

PROGRAMMER

Mar. 2015 - May 2015

- The final year project of bachelor study.
- This is a HTTP-based web spider framework based on python.
- Gain much more experience in organizing the code and how to build complex software.

YAIA's Poster

Macau, China

DESIGNER

Sep. 2015 - June 2016

- An online collection of my posters can be found online: <https://github.com/vinthony/vinthony.github.io>
- Basic knowledge about color matching.
- Basic usage of tools for UI design: PS/AI/Sketch

Deep Learning for Depth Estimation/Deep Learning for Novel View Synthesis

Macau, China

PROGRAMMER

Mar. 2017 - Sep. 2017

- During Deep Learning research, I implement many relative works in depth estimation and novel view synthesis, I'll open-source these codes soon:
- Torch implementation of Learning based method for Light Field Reconstruction (SIGGRAPH ASIA 2016)
- Torch implementation of Appearance Flow (ECCV 2016)
- Torch implementation of Deep3D (ECCV 2016)
- Torch implementation of FCRN (3DV 2016)

Programming Skill

Programming Language: Python, C++, Matlab, JavaScript

Deep Learning Toolkits: Torch, PyTorch, TensorFlow

Design Software: Adobe PhotoShop, Sketch, Adobe Illustrator

Programming: Image Processing, Computer Vision, Computer Graphics, Web Programming, Mobile Programming

Others: Latex, Linux/OS X