Jinyang **Guo**

Second year Ph.D. student · Computer Vision · Machine Learning · Pattern Recognition

Unit417 17 Grandstand pde, zetland, NSW, Australia, 2017

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Education

The University of Sydney — *Sydney, Australia*

Ph.D. in Electrical and Information Engineering — *Mar. 2018 - Exp. Aug. 2021*

- Supervisor: Dong Xu

The University of New South Wales — *Sydney, Australia*

B.E.(Hons) in Electrical Engineering — *Jul. 2014 - Dec. 2017*

- Achieved first class honour

Publication

[1] **Jinyang Guo**, Weichen Zhang, Dong Xu, "Model Compression using Progressive Channel Pruning." **IJCV** (under review).

[2] **Jinyang Guo**, Wanli Ouyang, Dong Xu, "Domain Adaptive Channel Pruning." **ICCV2019** (under review).

Experience

Electrical Engineer Assistant — *Beijing, China*

Beijing Shengjiajie Electrical Design Pty. Ltd. — *Dec. 2016 - Mar. 2017*

- Communicated with customer to follow the requirements of projects.

Selected Projects

Progressive Channel Pruning — *Sydney, Australia*

The University of Sydney — *Mar. 2018 - Nov. 2018*

- The pruned network architecture is usually determined by heuristic design. This project uses a three step attempting-selecting-pruning pipeline to compress and accelerate the Convolutional Neural Network by using channel pruning technology without the requirement of heuristic design. It achieve 0.6% accuracy drop on ImageNet dataset for VGG-16 model with 4×acceleration rate under supervised learning setting. Achieve almost no accuracy drop on Office-31 dataset for ResNet-50 model with 2×acceleration rate under unsupervised domain adaptation setting.

Domain Adaptive Channel Pruning — *Sydney, Australia*

The University of Sydney — *Dec. 2018 - Mar. 2019*

- Conventional channel pruning methods are designed under the supervised learning setting. This project compress and accelerate the Convolutional Neural Network by using channel pruning technology specifically for unsupervised domain adaptation task. It take the significant domain gap into consideration during the pruning process. This is the first work to compress model specifically designed for unsupervised domain adaptation task.

Skills

Programming Languages	Python, C/C++, Matlab, LaTeX
Machine Learning Frameworks	Caffe, PyTorch, TensorFlow, NumPy, sk-learn
Languages	English, Mandarin

Extracurricular Activity

USYD Computer Vision Group — *Sydney*

Core Member — *Mar. 2018 - PRESENT*

- Gained strong presentation skill through presenting newest research results to group members each week.
- Organize team building event once per year, including hiking, skiing trip. Gained strong communication skills.