

Yuchao Gu

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Education

- **Nankai University** **Tianjin, China**
Master Student in Computer Science *Sep 2019 – Present*
 - Advisor: Prof. Ming-Ming Cheng
- **Beijing University of Chemical Technology** **Beijing, China**
B.Eng. in Computer Science *Sep. 2015 - June. 2019*
 - GPA 3.8/4.33, Rank 6/173

Research Interests

My research interests mainly lie in Efficient Deep Learning, but also include neural architecture search and network pruning. Indeed, my works focus on generalization analysis of those areas and building efficient frameworks for downstream computer vision applications.

Publications

- DOTS: Decoupling Operation and Topology in Differentiable Architecture Search
Yu-Chao Gu, Li-Juan Wang, Yun Liu, Yi Yang, Yu-Huan Wu, Shao-Ping Lu, and Ming-Ming Cheng
In IEEE Conference on Computer Vision and Pattern Recognition (**CVPR 2021**)
- Pyramid Constrained Self-Attention Network for Fast Video Salient Object Detection
Yu-Chao Gu, Li-Juan Wang, Zi-Qin Wang, Yun Liu, Ming-Ming Cheng, Shao-Ping Lu
In AAAI Conference on Artificial Intelligence (**AAAI 2020**)
- Lightweight Salient Object Detection via Hierarchical Visual Perception Learning
Yun Liu, **Yu-Chao Gu**, Xin-Yu Zhang, Wei-Wei Wang, Ming-Ming Cheng
In IEEE Transactions on Cybernetics (**TCYB 2020**)

Preprints

- iNAS: Integral NAS for Device-Aware Salient Object Detection
Yu-Chao Gu, Shang-Hua Gao, Xu-Sheng Cao, Shao-Ping Lu, Peng Du, Ming-Ming Cheng
Submission in ICCV 2021