Xiaofang Wang

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RESEARCH INTERESTS

Area: Computer Vision, Deep Learning, Machine Learning
Topic: Neural Architecture Search, Efficient Neural Networks, Network Compression, Video Classification, Image Hashing

EDUCATION

Carnegie Mellon University, Pittsburgh, PA, USA   *August 2017 - Present*
Ph.D. in Robotics
Advisor: Kris M. Kitani

Carnegie Mellon University, Pittsburgh, PA, USA   *August 2015 - May 2017*
M.S. in Robotics
Advisors: Kris M. Kitani, Martial Hebert

Peking University, School of EECS, Beijing, China   *August 2011- July 2015*
B.S. in Computer Science
Advisor: Ling-Yu Duan

INDUSTRY EXPERIENCE

Google Perception   *May 2020 - August 2020*
Research Intern
Mentors: Yair Alon, Elad Eban

Google Cloud AI   *May 2019 - August 2019*
Research Intern
Mentors: Xuehan Xiong, Maxim Neumann, Michael S. Ryoo, Anelia Angelova, Wei Hua

PUBLICATIONS & PREPRINTS

* indicates equal contribution.

[1] **Wisdom of Committees: An Overlooked Approach To Faster and More Accurate Models** [Link]
Xiaofang Wang, Dan Kondratyuk, Eric Christiansen, Kris M. Kitani, Yair Alon, Elad Eban
preprint

[2] **Neighborhood-Aware Neural Architecture Search** [Link]
Xiaofang Wang, Shengcao Cao, Mengtian Li, Kris M. Kitani
British Machine Vision Conference (BMVC), 2021

[3] **AttentionNAS: Spatiotemporal Attention Cell Search for Video Classification** [Link]
Xiaofang Wang, Xuehan Xiong, Maxim Neumann, AJ Piergiovanni, Michael S. Ryoo, Anelia Angelova, Kris M. Kitani, Wei Hua
European Conference on Computer Vision (ECCV), 2020

[4] **Learnable Embedding Space for Efficient Neural Architecture Compression** [Link]
Shengcao Cao*, **Xiaofang Wang***, Kris M. Kitani
International Conference on Learning Representations (ICLR), 2019

[5] **Error Correction Maximization for Deep Image Hashing** [Link]
Xiang Xu, **Xiaofang Wang**, Kris M. Kitani
British Machine Vision Conference (BMVC), 2018

[6] **Deep Supervised Hashing with Triplet Labels** [Link]
    Xiaofang Wang, Yi Shi, Kris M. Kitani
    Asian Conference on Computer Vision (ACCV), 2016 **Oral Presentation (5.6% acceptance rate)**

[7] **Hamming Compatible Quantization for Hashing** [Link]
    Zhe Wang, Ling-Yu Duan, Jie Lin, **Xiaofang Wang**, Tiejun Huang, Wen Gao
    International Joint Conference on Artificial Intelligence (IJCAI), 2015

SERVICES

- **Journal Reviewer**: IJCV, TIP, ACM Computing Surveys
- **Conference Reviewer**: CVPR, ICCV, ECCV, NeurIPS, ICML, ICLR
- **M.S. Admissions Committee**: CMU Robotics Institute 2017-2018
- **M.S. Thesis Committee**: Wen-Hsuan Chu, Sandy Sun, Junyu Nan, Shengcao Cao, Seunghwan Cha
- **Ph.D. Research Qualifier Committee**: Navyata Sanghvi

TEACHING

- **Teaching Assistant** for 16-385 **Computer Vision**, Fall 2019
  Instructors: Srinivasa Narasimhan, Kris M. Kitani
- **Teaching Assistant** for 16-822 **Geometry-based Methods in Vision**, Fall 2018
  Instructor: Martial Hebert

TECHNICAL SKILLS

- **Tools**: PyTorch, TensorFlow, Torch, Caffe, MatConvNet, VLFeat, OpenCV
- **Programming**: Python, C/C++, MATLAB, Lua

HONORS & AWARDS

- **Outstanding Reviewer**, CVPR 2021
- **Outstanding Undergraduate Thesis**, School of EECS, Peking University, 2015
- **8108 College Alumni Scholarship**, School of EECS, Peking University, 2014
- **Merit Student**, Peking University, 2013
- **May Fourth Scholarship**, Peking University, 2012