

Dongliang Chang

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EDUCATION

Beijing University of Posts and Telecommunications (BUPT), Beijing, China

- Ph.D. in Information and Communication Engineering Sep 2019 –
 - Adviser: Prof. Zhanyu Ma and Prof. Yi-Zhe Song
 - Focus: Fine-Grained Image classification, Deep Learning.
- Visiting Student Apr 2017 – Sep 2019
 - Adviser: Prof. Zhanyu Ma

Lanzhou University of Technology (LUT), Lanzhou, China

- M.E. in IOT Engineering Sep 2016 – Jun 2019
 - Adviser: Prof. Xiaoxu Li

Zhoukou Normal University (ZKNU), Zhoukou, China

- B.E. in Network Engineering Sep 2012 – Jun 2016
 - Adviser: Prof. Qi Wang

PUBLICATIONS

HIGHLIGHTS

- [3] Dongliang Chang, Kaiyu Pang, Yixiao Zheng, Zhanyu Ma*, Yi-Zhe Song, Jun Guo, “Your “Flamingo” is My “Bird”: Fine-Grained, or Not,” in *Computer Vision and Pattern Recognition (CVPR), Oral*, 2021.
- [2] Dongliang Chang, Yifeng Ding, Jiyang Xie, Ayan Kumar Bhunia, Xiaoxu Li, Zhanyu Ma*, Ming Wu, Jun Guo, and Yi-Zhe Song, “The Devil is in the Channels: Mutual-Channel Loss for Fine-Grained Image Classification,” *IEEE Transactions on Image Processing*, vol. 29, pp. 19572–19578, 2020.
- [1] Dongliang Chang, Aneeshan Sain, Zhanyu Ma, Yi-Zhe Song, Jun Guo, “Mind the Gap: Enlarging the Domain Gap in Open Set Domain Adaptation,” *arXiv preprint arXiv:2003.03787 [Under Review (TPAMI)]*, 2020.

INTERNATIONAL JOURNAL

- [8] Yifeng Ding, Zhanyu Ma*, Shaoguo Wen, Jiyang Xie, Dongliang Chang, Zhongwei Si, Ming Wu, and Haibin Ling, “AP-CNN: Weakly Supervised Attention Pyramid Convolutional Neural Network for Fine-Grained Visual Classification,” *IEEE Transactions on Image Processing*, 2021.
- [7] Xiaoxu Li, Dongliang Chang, Zhanyu Ma*, Zheng-Hua Tan, Jing-Hao Xue, Jie Cao, and Jun Guo, “Deep InterBoost Networks for Small-sample Image Classification,” *NEUROCOMPUTING*, 2020.
- [6] Xiaoxu Li, Dongliang Chang, Zhanyu Ma*, Zheng-Hua Tan, Jing-Hao Xue, Jie Cao, Jingyi Yu, Jun Guo, “OSLNet: Deep Small-Sample Classification with an Orthogonal Softmax Layer,” *IEEE Transactions on Image Processing*, vol. 29, pp. 6482–6495, 2020.
- [5] Dongliang Chang, Yifeng Ding, Jiyang Xie, Ayan Kumar Bhunia, Xiaoxu Li, Zhanyu Ma*, Ming Wu, Jun Guo, and Yi-Zhe Song, “The Devil is in the Channels: Mutual-Channel Loss for Fine-Grained Image Classification,” *IEEE Transactions on Image Processing*, vol. 29, pp. 19572–19578, 2020.
- [4] Xiaoxu Li*, Dongliang Chang, Tao Tian, and Jie Cao, “Large-margin Regularized Softmax Cross-Entropy Loss,” *IEEE Access*, vol. 12, pp. 330–352, 2019.
- [3] Zhanyu Ma*, Dongliang Chang, Jiyang Xie, Yifeng Ding, Shaoguo Wen, Xiao-Xu Li, Zhongwei Si, and Jun Guo, “Fine-Grained Vehicle Classification with Channel Max Pooling Modified CNNs,” *IEEE Transactions on Vehicular Technology*, vol. 68, pp. 3224–3233, Apr 2019.
- [2] Xiaoxu Li*, Liyun Yu, Dongliang Chang, Zhanyu Ma*, and Jie Cao, “Dual Cross-Entropy Loss for Small-Sample Fine-Grained Vehicle Classification,” *IEEE Transactions on Vehicular Technology*, vol. 68, pp. 4204–4212, May 2019.
- [1] Luyao Liu, Yi Zhao, Dongliang Chang, Jiyang Xie, Zhanyu Ma*, Qie Sun*, Hongyi Yin*, and Ronald Wennersten, “Prediction of short-term PV power output and uncertainty analysis,” *Applied Energy*, vol. 228, pp. 700–711, Oct 2018.

INTERNATIONAL CONFERENCE

- [13] Siqing Zhang, Ruoyi Du, Dongliang Chang, Zhanyu Ma*, Jun Guo, “Knowledge Transfer Based Fine-grained Visual Classification,” in *International Conference on Multimedia and Expo (ICME)*, 2021.
- [12] Dongliang Chang, Kaiyu Pang, Yixiao Zheng, Zhanyu Ma*, Yi-Zhe Song, Jun Guo, “Your “Flamingo” is My “Bird”: Fine-Grained, or Not,” in *Computer Vision and Pattern Recognition (CVPR), Oral*, 2021.
- [11] Zeyu Song, Dongliang Chang, Zhanyu Ma*, Xiaoxu Li, and Zheng-Hua Tan, “CC-Loss: Channel Correlation Loss for Image Classification,” in *International Conference on Pattern Recognition (ICPR)*, 2020.
- [10] Junhui Yin, Siqing Zhang, Dongliang Chang, Zhanyu Ma*, and Jun Guo, “Dual-attention Guided Dropblock Module for Weakly Supervised Object Localization,” in *International Conference on Pattern Recognition (ICPR)*, 2020.
- [9] Ruoyi Du, Dongliang Chang, Ayan Kumar Bhunia, Jiyang Xie, Yi-Zhe Song, Zhanyu Ma*, Jun Guo, “Fine-Grained Visual Classification via Progressive Multi-Granularity Training of Jigsaw Patches,” in *European Conference on Computer Vision (ECCV)*, 2020.
- [8] Yixiao Zheng, Dongliang Chang, Jiyang Xie, and Zhanyu Ma*, “IU-Module: Intersection and Union Module for Fine-Grained Visual Classification,” in *Proceedings of IEEE International Conference on Multimedia and Expo (ICME)*, 2020.
- [7] Xinran Wei, Dongliang Chang, Jiyang Xie, Yixiao Zheng, Chen Gong, Chuang Zhang, and Zhanyu Ma, “FICAL: Focal Inter-Class Angular Loss for Image Classification,” in *Proceedings of IEEE International Conference on Visual Communications and Image Processing (VCIP)*, 2019.
- [6] Lu Cheng, Dongliang Chang*, Jiyang Xie, Rongliang Ma, Chunsheng Wu, and Zhanyu Ma, “Channel Max Pooling for Image Classification,” in *Proceedings of International Conference on Intelligence Science and Big Data Engineering (IScIDE)*, 2019.
- [5] Jie Cao, Yinping Qiu, Dongliang Chang, Xiaoxu Li*, and Zhanyu Ma*, “Dynamic Attention Loss for Small-sample Image Classification,” in *Proceedings of The 11th Annual Conference Organized by Asia-Pacific Signal and Information Processing Association (APSIPA)*, 2019.
- [4] Xiaoxu Li, Jijie Wu, Dongliang Chang, Zhanyu Ma*, and Jie Cao*, “Mixed Attention Mechanism for Small-Sample Fine-grained Image Classification,” in *Proceedings of The 11th Annual Conference Organized by Asia-Pacific Signal and Information Processing Association (APSIPA)*, 2019.
- [3] Xiaoxu Li, Liyun Yu, Dongliang Chang, Zhanyu Ma*, and Jie Cao*, “Small-Sample Image Classification Method of Combining Prototype and Margin Learning,” in *Proceedings of The 11th Annual Conference Organized by Asia-Pacific Signal and Information Processing Association (APSIPA)*, 2019.
- [2] Dongliang Chang, Xiaoxu Li*, Jiyang Xie, Zhanyu Ma, Jun Guo, and Jie Cao, “SSE: A new selective initialization strategy for Snapshot Ensembling,” in *Proceedings of IEEE International Conference on Cloud Computing and Intelligence Systems (CCIS)*, 2018.
- [1] Jie Cao*, Zhe Su, Liyun Yu, Dongliang Chang, Xiaoxu Li, and Zhanyu Ma, “Softmax Cross Entropy Loss with Unbiased Decision Boundary for Image Classification,” in *Proceedings of Chinese Automation Congress(CAC)*, 2018.

AWARDS & SCHOLARSHIPS

- BUPT Excellent Ph.D. Students Reserve Scholarship (Rate = 32/342 = 9%) 2019
- BUPT Excellent Ph.D. Students Foundation (Rate = 21/342 = 6%) 2020
- China Scholarship Council Scholarship 2020
- Excellent PhD student of Beijing Association of Automation 2020

SERVICESS

Reviewer:

IEEE Transactions on Image Processing 2020-2021
IEEE Transactions on Neural Networks and Learning Systems 2020-2021
IEEE Transactions on Vehicular Technology 2019-2021
IEEE Transactions on Circuits and Systems for Video Technology 2020-2021
IEEE ACCESS 2021
NEUROCOMPUTING 2020-2021
Multimedia Systems 2020-2021
ICCV 2021
ICPR 2020-2021
APSIPA 2020-2021

[CV compiled on 2021-03-28]