Dongdong CHEN

Curriculum Vitae

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Education

09/2014– **PhD of Engineering in Information and Communication Engineering**, *University of Science*
06/2019 *and Technology of China*, Hefei, China.

09/2010– **Bachelor of Electronic Engineering and Information Science**, *University of Science and*
06/2014 *Technology of China*, Hefei, China, *GPA − 3.98/4.3*.

Experience

05/2019– **Senior Researcher**, *Microsoft Research*, Asia, China.
present Member of the Computer Vision Science Team. Research in computer vision related tasks.

04/2018– **Research Intern**, *Microsoft Research*, Redmond, United States.
09/2018 Member of the Computer Vision group, supervised by Gang Hua. Research in text detection and recognition, low-level vision.

11/2015– **Research Intern**, *Microsoft Research Asia*, Beijing, China.
03/2018 Member of the Visual Computing group, supervised by Jian Sun, Gang Hua, Lu Yuan. Research in text and logo detection, neural style transfer, color transfer, and general image generation tasks.

07/2015– **Product Manager Intern**, *Alibaba Group*, Beijing, China.
10/2015 Member of the Yushanfang Group. Design a business intelligence platform to help to increase the return of e-commerce customers.

06/2014– **Research Intern**, *Microsoft Research Asia*, Beijing, China.
08/2014 Member of the Visual Computing Group, supervised by Yi Ma. Research in 3D Streetview maps building, moving points removal.

Publications

★ Ziyu Wan*, **Dongdong Chen***, Yan Li, Xingguang Yan, Junge Zhang, Yizhou Yu, Jing Liao, Transductive Zero-Shot Learning with Visual Structure Constraint, *Thirty-third Conference on Neural Information Processing Systems (NeurIPS 2019)*, (*joint first author)

★ Jiangfan Han, Xiaoyi Dong, Ruimao Zhang, **Dongdong Chen**, Weiming Zhang, Nenghai Yu, Ping Luo, Xiaogang Wang, Once a MAN: Towards Multi-Target Attack via Learning Multi-Target Adversarial Network Once, *Proceedings of the IEEE International Conference on Computer Vision (ICCV 2019)*

★ Qingnan Fan*, **Dongdong Chen***, Lu Yuan, Gang Hua, Nenghai Yu, Baoquan Chen, A General Decoupled Learning Framework for Parameterized Image Operators, *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI 2019)*, (*joint first author)

- ⋆ Dongdong Hou, Weiming Zhang, Jiayang Liu, Siyan Zhou, **Dongdong Chen**, Nenghai Yu, Emerging Applications of Reversible Data Hiding, *International Conference on Image and Graphics Processing (ICIGP 2019)*

- ⋆ **Dongdong Chen**, Mingming He, Qingnan Fan, Jing Liao, Liheng Zhang, Dongdong Hou, Lu Yuan, Gua Hua, Gated Context Aggregation Network for Image Dehazing and Deraining, *IEEE Winter Conf. on Applications of Computer Vision (WACV 2019)*.

- ⋆ Dongdong Hou, Weiming Zhang, Jiayang Liu, Siyan Zhou, **Dongdong Chen**, Nenghai Yu, Emerging Applications of Reversible Data Hiding, *International Conference on Image and Graphics Processing (ICIGP 2019)*.

- ⋆ Mingming He, Jing Liao, Lu Yuan, **Dongdong Chen**, Pedro V. Sander, Progressive Color Transfer with Dense Semantic Correspondences, *ACM Transactions on Graphics 2018*.

- ⋆ Qingnan Fan*, **Dongdong Chen***, Lu Yuan, Gang Hua, Nenghai Yu, Baoquan Chen, Decouple Learning for Parameterized Image Operators, *European Conference on Computer Vision (ECCV 2018).*, (*joint first author)

- ⋆ Mingming He*, **Dongdong Chen***, Jing Liao, Pedro V. Sander, Lu Yuan, Deep Exemplar-based Colorization, *ACM Transactions on Graphics (Siggraph 2018).*, (*joint first author)

- ⋆ **Dongdong Chen**, Lu Yuan, Jing Liao, Nenghai Yu, Gang Hua, Stereoscopic Neural Style Transfer, *Computer Vision and Pattern Recognition Conference (CVPR 2018)*.

- ⋆ **Dongdong Chen**, Jing Liao, Lu Yuan, Nenghai Yu, Gang Hua, Coherent Online Video Style Transfer, *International Conference on Computer Vision (ICCV 2017)*.

- ⋆ **Dongdong Chen**, Lu Yuan, Jing Liao, Nenghai Yu, Gang Hua, StyleBank: An Explicit Representation for Neural Image Style Transfer, *Computer Vision and Pattern Recognition Conference (CVPR 2017)*.

- ⋆ Jizhou Yan, **Dongdong Chen**, Heesoo Myeong, Takaaki Shiratori, Yi Ma, Automatic Extraction of Moving Objects from Image and LIDAR Sequences , *International Conference on 3D Vision 2014 (3DV 2014)*.

Patents

- ⋆ Image stylization based on learning network (WO2018111786A1)
- ⋆ Visual Stylization on Stereoscopic Images (WO2019139858A1)
- ⋆ Image Colorization Based on Reference Information (filed, but kept confidential under processing)

Services

- ⋆ Reviewer for AAAI 2018, AAAI 2019
- ⋆ Reviewer for PRCV 2019, ICME 2019, ICIG 2019
- ⋆ Reviewer for ACCV 2018
- ⋆ Reviewer for CVPR 2018, CVPR 2019

★ Reviewer for IEEE Transactions on Pattern Analysis and Machine Intelligence(TPAMI)

★ Reviewer for International Journal of Comuter Vision(IJCV)

★ Reviewer for IEEE Transactions on Image Processing(TIP)

★ Reviewer for IEEE Transactions on MultiMedia(TMM)

★ Reviewer for IEEE Transactions on Circuits and Systems for Video Technology(TCSVT)

★ Reviewer for Machine Vision and Applications(MVAP)

★ Reviewer for Journal of Selected Topics in Signal Processing(JSTSP)

★ Reviewer for Public Library of Science (PLOS ONE)

Awards & Honors

2019 Chinese Academy of Sciences President Award (Special)

2018 National Scholarship for Graduate Students, University of Science and Technology of China

2018 (3/2950 Teams) FashionAI Global Challenge—Attributes Recognition of Apparel

2018 (7/2322 Teams) FashionAI Global Challenge—Key Points Detection of Apparel

2018 Excellence Award of Stars of Tomorrow Internship Program, Microsoft Research Asia

2016 Best Demo Prize (4/7661 Teams)of Di-Tech Algorithm Contest of Big Data

2016 Top 5 in Tianyi Algorithm Contest of Big Data

2015 Grand Prize (1/1438 teams) in CCF National Youth Innovation Contest of Big Data 2015

2013 National Scholarship (2/133), University of Science and Technology of China

2012 National Scholarship (2/133), University of Science and Technology of China