

Chuanxia Zheng

Curriculum Vitae

Institute of Media Innovation
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Education

- 2017–present **Nanyang Technological University.**
Ph.D. in Computer Science, SCSE
Advisor: Tat-Jen Cham and Jianfei Cai
- 2014–2017 **Beihang University.**
MA.E. in Automation Science
Thesis: *Context-based Indoor Scene Understanding for Mobile Robot*
Advisor: Jianhua Wang and Weihai Chen
- 2010–2014 **Beijing Jiaotong University.**
B.E. in Electronic and Information Engineering
Ranked 2nd out of 100, Class of 2014

Employment

- 2017 **Huawei Research.**
Research assistant at Noah's Ark Lab
Work on face recognition and generation
- 2016 **Tencent Research.**
Research Intern at Fundamental Research Center of Tencent
Work on news recommendation

Publications

- [1] Guoxian Song, Linjie Luo, Jing Liu, Chunpong Lai, **Chuanxia Zheng**, and Tat-Jen Cham. Agilelan: Stylizing portraits by inversion-consistent transfer learning. *ACM Transactions on Graphics (Proceedings of ACM SIGGRAPH)*, 2021.
- [2] **Chuanxia Zheng**, Tat-Jen Cham, and Jianfei Cai. The spatially-correlative loss for various image translation tasks. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021.
- [3] **Chuanxia Zheng**, Tat-Jen Cham, and Jianfei Cai. Pluralistic image completion. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, pages 1438–1447, 2019.
- [4] Tianyi Zhang, Jingyi Yang, **Chuanxia Zheng**, Guosheng Lin, Jianfei Cai, and Alex C Kot. Task-in-all domain adaptation for semantic segmentation. In *2019 IEEE Visual Communications and Image Processing (VCIP)*, pages 1–4. IEEE, 2019.
- [5] **Chuanxia Zheng**, Tat-Jen Cham, and Jianfei Cai. T2net: Synthetic-to-realistic translation for solving single-image depth estimation tasks. In *Proceedings of the European Conference on Computer Vision (ECCV)*, pages 767–783, 2018.
- [6] **Chuanxia Zheng**, Jianhua Wang, Weihai Chen, and Xingming Wu. Multi-class indoor semantic segmentation with deep structured model. *The Visual Computer (TVCJ)*, 34(5):735–747, 2018.
- [7] Jianhua Wang, **Chuanxia Zheng**, Weihai Chen, and Xingming Wu. Learning aggregated features and optimizing model for semantic labeling. *The Visual Computer (TVCJ)*, 33(12):1587–1600, 2017.
- [8] **Chuanxia Zheng**, Jianhua Wang, Weihai Chen, and Xingming Wu. Semantic segmentation based

on aggregated features and contextual information. In *2016 IEEE International Conference on Robotics and Biomimetics (ROBIO)*, pages 862–867. IEEE, 2016.

- [9] Jianhua Wang, **Chuanxia Zheng**, Weihai Chen, and Xingming Wu. Learning contextual information for indoor semantic segmentation. In *2016 IEEE 11th Conference on Industrial Electronics and Applications (ICIEA)*, pages 1639–1644. IEEE, 2016.

Preprints

- [10] **Chuanxia Zheng**, Tat-Jen Cham, and Jianfei Cai. Tfill: Image completion via a transformer-based architecture. *arXiv*.
- [11] **Chuanxia Zheng**, Tat-Jen Cham, and Jianfei Cai. Pluralistic free-form image completion. *Under review of International Journal of Computer Vision (IJCV)*, *Minor Revision*.
- [12] **Chuanxia Zheng**, Duy-Son Dao, Guoxian Song, , Tat-Jen Cham, and Jianfei Cai. Visiting the invisible: layer-by-layer completed scene decomposition. *Under review of International Journal of Computer Vision (IJCV)*, *Major Revision*.

Academic Services

Journal Reviewer

- TPAMI IEEE Transactions on Pattern Analysis and Machine Intelligence
- IJCV International Journal of Computer Vision — Special Issue on Generative Adversarial Networks for Computer Vision
- TIP IEEE Transactions on Image Processing
- TMM IEEE Transactions on Multimedia
- TCSVT IEEE Transactions on Circuits and Systems for Video Technology
- CVIU Computer Vision and Image Understanding
- TVCJ The Visual Computer

Conference Reviewer

- 2021 CVPR, ICCV, ICLR, ACM MM
- 2020 CVPR, ECCV
- 2019 ICCV

Awards & Honors

- 2017 NTU Research Scholarship
- 2015,2016 First Prize Scholarship for Excellent Student
- 2014 Outstanding Graduate of Beijing
- 2013 National Second Prize of the National Electronic Design Contest (Best one in Beijing)
- 2012 Hanergy Special Scholarship (**Top 1%**)
- 2011 Siemens Special Scholarship (**Top 1%**)

Talks

- 2019 **Pluralistic Image Completion**, *Institute of Media Innovation*, NTU.
- 2018 **Depth Estimation from Single 2D Image**, *Institute of Media Innovation*, NTU.

Teaching

- 2018–2020 **Teaching Assistant**, *Advanced Digital Image Processing*, NTU.
- 2018–2020 **Teaching Assistant**, *Human-Computer Interaction*, NTU.