Chuanxia Zheng

Curriculum Vitae

Institute of Media Innovation
Nanyang Technological University
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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. Agilegan: 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**), Major 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

IEEE Transactions on Pattern Analysis and Machine Intelligence

IEEE Transactions on Image Processing

IEEE Transactions on Multimedia

IEEE Transactions on Circuits and Systems for Video Technology

Computer Vision and Image Understanding

The Visual Computer

Conference Reviewer

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

Awards & Honors

2017	NTU Research Scholarship
2015,2016	First Prize Scholarship for Excellent Student
2014	Outstanding Graduate in 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

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

Teaching

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