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Education

2011–2017: M.S. and Ph.D. in Computer Science, University of Massachusetts, Amherst, MA.

2005–2011: B.S. and M.S. in Mathematics, Zhejiang University, Hangzhou, China.

Work Experience

Senior Staff Research Scientist @ Kuaishou Technology, 2019.11-Present

Research Scientist @ Megvii/Face++ Research, 2017.10- 2019.11

Research Experience

Computer Graphics

3D Computer vision

Computational Photography

Tech Transfers

Neural Face Style Transfer: Efficient solution for real time face style transfer on mobile devices (Kuaishou 2020-2021)

Super Night Shot: Revolutionary low-light imaging solution on Android devices (Megvii 2019)

Selected Publications

[30] Yuxin Zhang, Fan Tang, Weiming Dong, **Haibin Huang**, Chongyang Ma, Tong-Yee Lee, Changsheng Xu "Domain Enhanced Arbitrary Image Style Transfer via Contrastive Learning ", SIGGRAPH 2022

[29] Ziwei Luo, **Haibin Huang**, Lei Yu, Youwei Li, Haoqiang Fan, Shuaicheng Liu "Deep Constrained Least Squares for Blind Image Super-Resolution ", CVPR 2022

[28] Yiqun Lin, Lichang Chen, **Haibin Huang**, Chongyang Ma, Xiaoguang Han, Shuguang Cui "Task-Aware Sampling Layer for Point-Wise Analysis ", TVCG 2022

[27] Zejia Su, **Haibin Huang**, Chongyang Ma, Hui Huang, Ruizhen Hu "Point cloud completion on structured feature map with feedback network ", CVMJ 2022

[26] Luanmin Chen, Juzhan Xu, Chuan Wang, **Haibin Huang**, Hui Huang and Ruizhen Hu "UprightRL: Upright Orientation Estimation of 3D Shapes via Reinforcement Learning ", PG 2021

[25] Siming Yan, Zhenpei Yang, Chongyang Ma, **Haibin Huang**, Etienne Vouga, Qixing Huang "HPNet: Deep Primitive Segmentation Using Hybrid Representations ", ICCV 2021

[24] Haitao Yang, Zaiwei Zhang, Siming Yan, **Haibin Huang**, Chongyang Ma, Yi Zheng, Chandrajit Bajaj, Qixing Huang "Scene Synthesis via Uncertainty-Driven Attribute Synchronization ", ICCV 2021

[23] Yisheng He, **Haibin Huang**, Haoqiang Fan, Qifeng Chen, Jian Sun "FFB6D: A Full Flow Bidirectional Fusion Network for 6D Pose Estimation ", CVPR 2021

[22] Shen Cheng, Yuzhi Wang, **Haibin Huang**, Donghao Liu, Haoqiang Fan, Shuaicheng Liu "NBNet: Noise Basis Learning for Image Denoising with Subspace Projection ", CVPR 2021

[21] Yingying Deng, Fan Tang, Weiming Dong, **Haibin Huang**, Chongyang Ma, Changsheng Xu "Arbitrary Video Style Transfer via Multi-Channel Correlation ", AAAI 2021

[20] Albert Zhao, Tong He, Yitao Liang, **Haibin Huang**, Guy Van den Broeck, Stefano Soatto "SAM: Squeeze-and-Mimic Networks for Conditional Visual Driving Policy Learning ", CoRL 2020

[19] Yuzhi Wang, **Haibin Huang**, Qin Xu, Jiaming Liu, Yiqun Liu, Jue Wang "Practical Deep Raw Image Denoising on Mobile Devices", ECCV 2020

[18] Yiqun Lin, Zizheng Yan, **Haibin Huang**, Dong Du, Ligang Liu, Shuguang Cui, Xiaoguang Han "FPConv: Learning Local Flattening for Point Convolution ", CVPR 2020

[17] Yisheng He, Wei Sun, **Haibin Huang**, Jianran Liu, Haoqiang Fan, Jian Sun "PVN3D: A Deep Point-wise 3D Keypoints Voting Network for 6DoF Pose Estimation ", CVPR 2020

[16] Yuqian Zhou, Jianbo Jiao, **Haibin Huang**, Yang Wang, Jue Wang, Honghui Shi, Thomas Huang "hen AWGN-based Denoiser Meets Real Noises ", AAAI 2020

[15] Shaofan Cai, Xiaoshuai Zhang, Haoqiang Fan, **Haibin Huang**, Jiangyu Liu, Jiaming Liu, Jiaying Liu, Jue Wang, Jian Sun "Disentangled Image Matting ", ICCV 2019

[14] Yi He, Jiayuan Shi, Chuan Wang, **Haibin Huang**, Jiaming Liu, Guanbin Li, Risheng Liu, Jue Wang "Semi-supervised Skin Detection by Network with Mutual Guidance ", ICCV 2019

[13] Yang Wang, **Haibin Huang**, Chuan Wang, Tong He, Jue Wang, Minh Hoai "GIF2Video: Color Dequantization and Temporal Interpolation of GIF images ", CVPR 2019

[12] Tong He, **Haibin Huang**, Li Yi, Yuqian Zhou, Chihao Wu, Jue Wang, Stefano Soatto "GeoNet: Deep Geodesic Networks for Point Cloud Analysis ", CVPR 2019

[11] Chuan Wang, **Haibin Huang**, Xiaoguang Han, Jue Wang "Video Inpainting by Jointly Learning Temporal Structure and Spatial Details", AAAI 2019

[10] Li Yi, **Haibin Huang**, Difan Liu, Evangelos Kalogerakis, Hao Su, Leonidas Guibas "Deep Part Induction from Articulated Object Pairs", SIGGRAPH ASIA 2018

[9] Hao Wang, Nadav Schor, Ruizhen Hu, **Haibin Huang**, Daniel Cohen-Or, Hui Huang "Global-to-Local Generative Model for 3D Shapes ", SIGGRAPH ASIA 2018

[8] **Haibin Huang**, Evangelos Kalogerakis, Siddhartha Chaudhuri, Duygu Ceylan, Vladimir G. Kim, M. Ersin Yumer"Learning Local Shape Descriptors from Part Correspondences With Multi-view Convolutional Networks ", TOG 2018

[7] ZhaoLiang Lun, Changqing Zou, **Haibin Huang**, Evangelos Kalogerakis, Ping Tan, Marie-Paule Cani, Hao Zhang "Learning to Group Discrete Graphical Patterns ", SIGGRAPH ASIA 2017

[6] Xiaoguang Han, Zhen Li, **Haibin Huang**, Evangelos Kalogerakis, Yizhou Yu "High Resolution Shape Completion Using Deep Neural Networks for Global Structure and Local Geometry Inference ", ICCV 2017

[5] Amir Arsalan Soltani, **Haibin Huang**, Jiajun Wu, Tejas Kulkarni, Joshua Tenenbaum "Synthesizing 3D Shapes via Modeling Multi-View Depth Maps and Silhouettes with Deep Generative Networks ", CVPR 2017

[4] **Haibin Huang**, Evangelos Kalogerakis, M. Ersin Yumer , Radomír Měch "Shape Synthesis from Sketches via Procedural Models and Convolutional Networks ", TVCG 2017

[3] **Haibin Huang**, Evangelos Kalogerakis, Benjamin Marlin "Analysis and synthesis of 3D shape families via deep-learned generative models of surfaces ", SGP 2015

[2] Chongyang Ma, **Haibin Huang**, Alla Sheffer, Evangelos Kalogerakis, Rui Wang "Analogy-Driven 3D Style Transfer ", Eurographics 2014

[1] Yahan Zhou, **Haibin Huang**, Li-Yi Wei and Rui Wang, "Point Sampling with General Noise Spectrum", SIGGRAPH 2012