Haozhe Xie
Research Fellow at Nanyang Technological University
Academic Block North, 61 Nanyang Dr, Singapore 637335
root@haozhexie.com | haozhexie.com | Haozhe Xie | hzxie | hzxie

Highlights
- StackOverflow Reputation: 3438
- Google Scholar Citations: 1683
- GitHub Followers: 369

Experience

MMLab@NTU
Research Fellow, working with Prof. Ziwei Liu
Mar. 2023 - present
Singapore

Tencent AI Lab
Senior Research Scientist with Outstanding Contributor (2022H1) and Excellent Individual (2022H2)
Aug. 2021 - Feb. 2023
Shenzhen, China

SenseTime Research
Research Intern with Outstanding Intern (2020H2)
Mar. 2019 - Nov. 2020
Shenzhen, China

Education

Harbin Institute of Technology
Ph.D. in Computer Science; Supervised by Prof. Hongxun Yao in Visual Intelligence Lab
Sept. 2017 - Jun. 2021
Harbin, China

Harbin Institute of Technology
M.E. in Computer Science; Supervised by Prof. Jie Li in Bioinformatics Lab (MOE Key Laboratory)
Sept. 2015 - Jun. 2017
Harbin, China

Hefei University of Technology
B.E. in Software Engineering; Supervised by Prof. Ning An in Gerontechnology Lab
Sept. 2011 - Jun. 2015
Hefei, China

Representative Publications

Spatio-Temporal Deformable Attention Network for Video Deblurring
Huicong Zhang, Haozhe Xie, Hongxun Yao
ECCV 2022

Long-Range Feature Propagating for Natural Image Matting
Qinglin Liu, Haozhe Xie, Shengping Zhang, Bineng Zhong, Rongrong Ji
ACM Multimedia 2021

Efficient Regional Memory Network for Video Object Segmentation
Haozhe Xie, Hongxun Yao, Shangchen Zhou, Shengping Zhang, Wenxiu Sun
CVPR 2021

GRNet: Gridding Residual Network for Dense Point Cloud Completion
Haozhe Xie, Hongxun Yao, Shangchen Zhou, Jiageng Mao, Shengping Zhang, Wenxiu Sun
ECCV 2020

Pix2Vox++: Multi-scale Context-aware 3D Object Reconstruction from Single and Multiple Images
Haozhe Xie, Hongxun Yao, Shengping Zhang, Shangchen Zhou, Wenxiu Sun
Int. Journal of Computer Vision (IJCV) 28(12): 2919-2935 (2020)

Pix2Vox: Context-aware 3D Reconstruction from Single and Multi-view Images
Haozhe Xie, Hongxun Yao, Xiaoshuai Sun, Shangchen Zhou, Shengping Zhang
ICCV 2019

Spatio-Temporal Filter Adaptive Network for Video Deblurring
Shangchen Zhou, Jiawei Zhang, Jinshan Pan, Haozhe Xie, Wangmeng Zuo, Jimmy Ren
ICCV 2019

DAVANet: Stereo Deblurring with View Aggregation
Shangchen Zhou, Jiawei Zhang, Wangmeng Zuo, Haozhe Xie, Jinshan Pan, Jimmy Ren
CVPR 2019

SEPTEMBER 5, 2023
Haozhe Xie · Curriculum Vitae

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Projects

**TinyDNN**

*Top 10 Contributors*

It is a deep learning library implemented with C++14, which is suitable for deep learning on IoT devices with limited computational resources. In this project, I added the implementation for transposed convolutional layers and Single Shot MultiBox Detector (SSD) for object detection.

**PyTorch Points 3D**

*Top 5 Contributors*

It is a framework for running deep learning models for point cloud analysis tasks against classic benchmarks. In this project, I created the framework for point cloud completion and added the implementation of GRNet.

**DataNinja**

*Project Owner*

It is a web application based on the Flask and MMDetection frameworks, which allows users to label datasets as well as design, train, and test deep neural networks for object detection. Related Patent: CN111709522A.

**Verwandlung Online Judge**

*Project Owner*

It is a cross-platform online judge (OJ) system based on the Spring MVC framework. JNI is used with Windows API and POSIX API to monitor the resources occupied by the submitted programs.

**V2Ray Desktop**

*Project Owner*

It is a cross-platform GUI client that supports Shadowsocks(R), V2Ray, and Trojan protocols, running on Windows, Linux, and macOS. It is built with Qt5 and QML 2.

Academic Services

**Reviewer**

The Conference on Computer Vision and Pattern Recognition (CVPR)
The International Conference on Computer Vision (ICCV)
European Conference on Computer Vision (ECCV)
The International Conference on Machine Learning (ICML)
The International Conference on Learning Representation (ICLR)
The Conference on Neural Information Processing Systems (NeurIPS)
The International Conference on 3D Vision (3DV)
The Winter Conference on Applications of Computer Vision (WACV)
International Journal of Computer Vision (IJCV)
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
IEEE Transactions on Image Processing (TIP)
IEEE Transactions on Multimedia (TMM)
Pattern Recognition (PR)

Skills

**Advanced**

C++, Java, Python (PyTorch), Linux, Git

**Intermediate**

C, CSS, CUDA, HTML, JavaScript, PHP, SQL, Docker, Qt (QML)

**Basic**

Bash, C#, Visual Basic

Honors & Awards

2022 Outstanding Contributor
2021 Outstanding Graduate
2020 National Scholarship
Outstanding Intern
2017 Outstanding Graduate
2016 National Scholarship
2015 Outstanding Graduate

Tencent
Harbin Institute of Technology
MoE of China
SenseTime
Harbin Institute of Technology
MoE of China
Hefei University of Technology