Haozhe Xie
Research Fellow @ Nanyang Technological University
Academic Block North, 61 Nanyang Dr, Singapore 637335

Hig
hlights

StackOverflow Reputation: 3388
Google Scholar Citations: 1588
GitHub Followers: 353

Experience

MMLab@NTU
Research Fellow, working with Prof. Ziwei Liu

Tencent AI Lab
Senior Research Scientist with Outstanding Contributor (2022H1) and Excellent Individual (2022H2)

SenseTime Research
Research Intern with Outstanding Intern (2020H2)

Education

Harbin Institute of Technology
Ph.D. in Computer Science; Supervised by Prof. Hongxun Yao in Visual Intelligence Lab

Harbin Institute of Technology
M.E. in Computer Science; Supervised by Prof. Jie Li in Bioinformatics Lab (MOE Key Laboratory)

Hefei University of Technology
B.E. in Software Engineering; Supervised by Prof. Ning An in Gerontechnology Lab

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
CVPR 2019

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

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 add 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 create the framework for point cloud completion and add 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 support 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

2022 Tencent
2021 Harbin Institute of Technology
2020 MoE of China
2019 SenseTime
2018 Harbin Institute of Technology
2017 MoE of China
2016 Hefei University of Technology
2015 Hefei University of Technology

JULY 18, 2023
HAOZHE XIE · CURRICULUM VITAE