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Education

Technische Universität München

PH.D. in Computer Science

Beijing University of Posts and Telecommunications

M.Sc.ENG. in Electronics and Communication Engineering

Beijing University of Posts and Telecommunications

B.Sc. in Communication Engineering

Publications

[1] GeoDrive: 3D Geometry-Informed Driving World Model with Precise Action Control

ANTHONY CHEN, WENZHAO ZHENG, **YIDA WANG**, XUEYANG ZHANG, KUN ZHAN, PENG JIA, KURT KEUTZER, SHANGHANG ZHANG, UNDER REVIEW

StreetCrafter: Street View Synthesis with Controllable Video Diffusion Models

[2] YUNZHI YAN, ZHEN XU, HAOTONG LIN, HAIAN JIN, HAORY GUO, **YIDA WANG**, KUN ZHAN, XIANPENG LANG, HUJUN BAO, XIAOWEI ZHOU, SIDA PENG, CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION (CVPR)²⁰²⁵

Drivedreamer4d: World Models are Effective Data Machines for 4d Driving Scene Representation

[3] GUOSHENG ZHAO, CHAOJUN NI, XIAOFENG WANG, ZHENG ZHU, XUEYANG ZHANG, **YIDA WANG**, GUAN HUANG, XINZE CHEN, BOYUAN WANG, YOUYI ZHANG, WENJUN MEI, XINGANG WANG, CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION (CVPR)²⁰²⁵

ReconDreamer: Crafting World Models for Driving Scene Reconstruction via Online Restoration

[4] CHAOJUN NI, GUOSHENG ZHAO, XIAOFENG WANG, ZHENG ZHU, WENKANG QIN, GUAN HUANG, CHEN LIU, YUYIN CHEN, **YIDA WANG**, XUEYANG ZHANG, YIFEI ZHAN, KUN ZHAN, PENG JIA, XIANPENG LANG, XINGANG WANG, WENJUN MEI, CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION (CVPR)²⁰²⁵

Efficient Multi-View Driving Scenes Generation Based on Video Diffusion Transformer

[5] JUNPENG JIANG, GANGYI HONG, HENG TONG HU, LIJUN ZHOU, TIANYI YAN, **YIDA WANG**, KUN ZHAN, PENG JIA, XIANPENG LANG, MIAO ZHANG, ICLR W²⁰²⁵

High-fidelity Endoscopic Image Synthesis by Utilizing Depth-guided Neural Surfaces

[6] BAORU HUANG, **YIDA WANG**, ANH NGUYEN, DANIEL ELSON, FRANCISCO VASCONCELOS, DANAIL STOYANOV, CVPR W²⁰²⁴

RaNeuS: Ray-adaptive Neural Surface Reconstruction

[7] **YIDA WANG**, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, IEEE CONFERENCE ON 3D VISION (3DV)²⁰²⁴ [ORAL]

SecNet: Semantic Eye Completion in Implicit Field

[8] **YIDA WANG**, YIRU SHEN, DAVID JOSEPH TAN, FEDERICO TOMBARI, SACHIN TALATHI, NEURIPS GAZE MEETS ML (PMLR)²⁰²²

Lidar Upsampling with Sliced Wasserstein Distance

[9] ARTEM SAVKIN, **YIDA WANG**, SEBASTIAN WIRKERT, NASSIR NAVAB, FEDERICO TOMBARI, IEEE ROBOTICS AND AUTOMATION LETTERS (RAL)²⁰²²

Self-supervised Latent Space Optimization with Nebula Variational Coding

[10] **YIDA WANG**, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE (T-PAMI)²⁰²²

Learning Local Displacements for Point Cloud Completion

[11] **YIDA WANG**, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION (CVPR)²⁰²²

- [12] **SoftPool++: An Encoder-Decoder Network for Point Cloud Completion**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, [INTERNATIONAL JOURNAL OF COMPUTER VISION \(IJCV\)](#)²⁰²²
- [13] **SoftPoolNet: Shape Descriptor for Point Cloud Completion and Classification**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, [EUROPEAN CONFERENCE ON COMPUTER VISION \(ECCV\)](#)²⁰²⁰ [Oral] [DEMO](#)
- [14] **Structure-SLAM: Low-Drift Monocular SLAM in Indoor Environments**
YANYAN LI, NIKOLAS BRASCH, YIDA WANG, NASSIR NAVAB, FEDERICO TOMBARI, [INTERNATIONAL CONFERENCE ON INTELLIGENT ROBOTS AND SYSTEMS \(IROS\)](#)²⁰²⁰
- [15] **ForkNet: Multi-branch Volumetric Semantic Completion from a Single Depth Image**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, [INTERNATIONAL CONFERENCE ON COMPUTER VISION \(ICCV\)](#)²⁰¹⁹
- [16] **Variational Object-aware 3D Hand Pose from a Single RGB Image**
YIDA WANG*, YAFEI GAO*, PIETRO FALCO, NASSIR NAVAB, FEDERICO TOMBARI, [THE IEEE INTERNATIONAL CONFERENCE ON ROBOTICS AND AUTOMATION \(ICRA\)](#)²⁰¹⁹ [DEMO](#)
- [17] **Adversarial Semantic Scene Completion from a Single Depth Image**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB AND FEDERICO TOMBARI, [IEEE CONFERENCE ON 3D VISION \(3DV\)](#)²⁰¹⁸ [DEMO](#)
- [18] **Generative Model with Coordinate Metric Learning for Object Recognition Based on 3D Models**
YIDA WANG AND WEIHONG DENG, [IEEE TRANSACTIONS ON IMAGE PROCESSING \(TIP\)](#)²⁰¹⁸
- [19] **ZigzagNet: Efficient Deep Learning for Real Object Recognition Based on 3D Models**
YIDA WANG, CAN CUI AND WEIHONG DENG, [ASIA CONFERENCE ON COMPUTER VISION \(ACCV\)](#)²⁰¹⁶
- [20] **Self-restraint Object Recognition by Model Based CNN Learning**
YIDA WANG AND WEIHONG DENG, [INTERNATIONAL CONFERENCE ON IMAGE PROCESSING \(ICIP\)](#)²⁰¹⁶
- [21] **Large-Scale 3D Shape Retrieval from ShapeNet Core55**
CO-AUTHORED, [EUROGRAPHICS \(EG\)](#)²⁰¹⁶
- [22] **Face Recognition Using Local PCA Filters**
YIDA WANG, SHASHA LI, JIANI HU AND WEIHONG DENG, [CCBR](#)²⁰¹⁵

Awards

Fellows	2017-2021, MLH ^[1] , TUM ^[2] and Bleence ^[3]	Munich, Germany
Contest	2016, Microsoft Open Source Challenge 2 nd prize	Redmond, U.S.A
	2016, BUPT Innovation Awards 1 st prize	Beijing, PRC
	2015, Tianchi Big Data Contest final list	Hangzhou, PRC
	2013, SCILAB Scientific open source Contest 1 st prize	Hefei, PRC
	2009, National Math, Chemistry and Physics Contest of Senior High 3 rd , 1 st and 2 nd prize	Dalian, PRC
Awards	2019, Outstanding oversea PhD student	Munich, Germany
	2017, Excellent Master Graduate of Beijing City	Beijing, PRC
	2016, National Master Scholarship	Beijing, PRC
	2014, Excellent Bachelor Graduate of Beijing City	Beijing, PRC
Others	2016, Capital College Track and Field Games 4×400 Gold medal	Beijing, PRC
	2015, Beijing International Triathlon Bronze medal	Beijing, PRC
	2014, Capital College Track and Field Games 3000 steeplechase Bronze medal	Beijing, PRC

Experience

Li Auto Inc. (Chehejia)	Shenzhen, China
SENIOR R&D ENGINEER	Jan. 2024 -
• Dynamic streets simulation and diffusion synthesis	
Synthia	London, UK
RESEARCH INTERN	Jun. 2022 - Oct. 2022
• High-fidelity Neural Actor	

Facebook Reality Lab

RESEARCH INTERN

Seattle, USA

Jun. 2021 - Oct. 2021

- Single-view semantic 3D eye reconstruction for eye tracking

OpenCV & Google

SOFTWARE ENGINEER

Beijing, PRC

Apr. 2015 - Sep. 2016

- An initial developer of [tiny-dnn](#), which is the deep learning backend for OpenCV.
- Contributed 3 OpenCV modules: [3D multi-task learning](#), [quantized deep learning](#) and [super resolution](#).

Skills

Programming

C/C++, Python, LaTeX, CUDA, Matlab, Scilab, shell, markdown

Pattern Recognition

Bayesian Inference, Tensor Algebra, Deep Learning, 3D Vision

Languages

English (TOEFL: 92 & CET-6: 552), Chinese, Deutsch