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LI AUTO INC. · I10-INDEX 19

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Education



Technical University of Munich (*Technische Universität München*)

Jun. 2017 - Jun. 2022

Ph.D. in Computer Science



Beijing University of Posts and Telecommunications

Sep. 2014 - Mar. 2017

M.Sc.Eng. in Electronics and Communication Engineering



Beijing University of Posts and Telecommunications

Sep. 2010 - Jul. 2014

B.Sc. in Communication Engineering

Publications

- [1] **Mobile-GS: Real-time Gaussian Splatting for Mobile Devices**
XIAOBAO DU, **YIDA WANG**, KUN ZHAN, XIN YU, ICLR²⁰²⁶
- [2] **CRAFT: Counterfactual-to-Interactive Reinforcement Fine-Tuning for Driving Policies**
KEYU CHEN, NANFEI YE, **YIDA WANG**, WENCHAO SUN, DANQI ZHAO, HAO CHENG, SIFA ZHENG, ARXIV²⁰²⁶
- [3] **StreetForward: Perceiving Dynamic Street with Feedforward Causal Attention**
ZHONGRUI YU, ZHAO WANG, YIJIA XIE, **YIDA WANG**, XUEYANG ZHANG, YIFEI ZHAN, KUN ZHAN, ARXIV²⁰²⁶
- [4] **OccDirector: Language-Guided Behavior and Interaction Generation in 4D Occupancy Space**
ZHUDING LIANG, TIANYI YAN, DUBING CHEN, JIASSEN ZHENG, HUAN ZHENG, CHENG-ZHONG XU, **YIDA WANG**, KUN ZHAN, JIANBING SHEN, ARXIV²⁰²⁶
- [5] **InfiniDepth: Arbitrary-Resolution and Fine-Grained Depth Estimation with Neural Implicit Fields**
HAO YU, HAOTONG LIN, JIAWEI WANG, JIAXIN LI, **YIDA WANG**, XUEYANG ZHANG, YUE WANG, XIAOWEI ZHOU, RUIZHEN HU, SIDA PENG, CVPR²⁰²⁶
- [6] **HiNeuS: High-fidelity Neural Surface Mitigating Low-texture and Reflective Ambiguity**
YIDA WANG, XUEYANG ZHANG, KUN ZHAN, PENG JIA, XIANPENG LANG, ICCV²⁰²⁵ [HIGHLIGHT]
- [7] **Hierarchy UGP: Hierarchy Unified Gaussian Primitive for Large-Scale Dynamic Scene Reconstruction**
HONGYANG SUN, QINGLIN YANG, JIAWEI WANG, ZHEN XU, CHEN LIU, **YIDA WANG**, KUN ZHAN, HUJUN BAO, XIAOWEI ZHOU, SIDA PENG, ICCV²⁰²⁵
- [8] **3DRealCar: An In-the-wild RGB-D Car Dataset with 360-degree Views**
XIAOBAO DU, **YIDA WANG**, HAIYANG SUN, ZHUOJIE WU, HONGWEI SHENG, SHUYUN WANG, JIAYING YING, MING LU, TIANQING ZHU, KUN ZHAN,... ICCV²⁰²⁵

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

- [9] ANTHONY CHEN, WENZHAO ZHENG, **YIDA WANG**, XUEYANG ZHANG, KUN ZHAN, PENG JIA, KURT KEUTZER, SHANGHANG ZHANG, [ICRA](#)²⁰²⁶

StreetCrafter: Street View Synthesis with Controllable Video Diffusion Models

- [10] YUNZHI YAN, ZHEN XU, HAOTONG LIN, HAIAN JIN, HAoyu GUO, **YIDA WANG**, KUN ZHAN, XIANPENG LANG, HUJUN BAO, XIAOWEI ZHOU, SIDA PENG, [CVPR](#)²⁰²⁵

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

- [11] GUOSHENG ZHAO, CHAOJUN NI, XIAOFENG WANG, ZHENG ZHU, XUEYANG ZHANG, **YIDA WANG**, GUAN HUANG, XINZE CHEN, BOYUAN WANG, YOUYI ZHANG, WENJUN MEI, XINGANG WANG, [CVPR](#)²⁰²⁵

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

- [12] 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, [CVPR](#)²⁰²⁵

RaNeuS: Ray-adaptive Neural Surface Reconstruction

- [13] **YIDA WANG**, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, [3DV](#)²⁰²⁴ [ORAL]

SecNet: Semantic Eye Completion in Implicit Field

- [14] **YIDA WANG**, YIRU SHEN, DAVID JOSEPH TAN, FEDERICO TOMBARI, SACHIN TALATHI, [NEURIPS W](#)²⁰²²

Lidar Upsampling with Sliced Wasserstein Distance

- [15] ARTEM SAVKIN, **YIDA WANG**, SEBASTIAN WIRKERT, NASSIR NAVAB, FEDERICO TOMBARI, [RAL](#)²⁰²²

Self-supervised Latent Space Optimization with Nebula Variational Coding

- [16] **YIDA WANG**, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, [T-PAMI](#)²⁰²²

Learning Local Displacements for Point Cloud Completion

- [17] **YIDA WANG**, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, [CVPR](#)²⁰²²

SoftPool++: An Encoder-Decoder Network for Point Cloud Completion

- [18] **YIDA WANG**, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, [IJCV](#)²⁰²²

SoftPoolNet: Shape Descriptor for Point Cloud Completion and Classification

- [19] **YIDA WANG**, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, [ECCV](#)²⁰²⁰ [ORAL] [DEMO](#)

Structure-SLAM: Low-Drift Monocular SLAM in Indoor Environments

- [20] YANYAN LI, NIKOLAS BRASCH, **YIDA WANG**, NASSIR NAVAB, FEDERICO TOMBARI, [IROS](#)²⁰²⁰

ForkNet: Multi-branch Volumetric Semantic Completion from a Single Depth Image

- [21] **YIDA WANG**, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, [ICCV](#)²⁰¹⁹

Variational Object-aware 3D Hand Pose from a Single RGB Image

- [22] **YIDA WANG***, YAFEI GAO*, PIETRO FALCO, NASSIR NAVAB, FEDERICO TOMBARI, [ICRA](#)²⁰¹⁹ [DEMO](#)

Adversarial Semantic Scene Completion from a Single Depth Image

- [23] **YIDA WANG**, DAVID JOSEPH TAN, NASSIR NAVAB AND FEDERICO TOMBARI, [3DV](#)²⁰¹⁸ [DEMO](#)

Generative Model with Coordinate Metric Learning for Object Recognition Based on 3D Models

- [24] **YIDA WANG** AND WEIHONG DENG, [TIP](#)²⁰¹⁸

ZigzagNet: Efficient Deep Learning for Real Object Recognition Based on 3D

[25] Models

YIDA WANG, CAN CUI AND WEIHONG DENG, [ACCV](#)²⁰¹⁶

Self-restraint Object Recognition by Model Based CNN Learning

[26]

YIDA WANG AND WEIHONG DENG, [ICIP](#)²⁰¹⁶

Large-Scale 3D Shape Retrieval from ShapeNet Core55

[27]

CO-AUTHORED, [EG](#)²⁰¹⁶

Experience



Li Auto Inc.

RESEARCH AND DEVELOPMENT SPECIALIST - *Spatial Reconstruction team* OPERATOR

Shanghai

Jan. 2024 - now

• 1) Driving world model; 2) Interactive multi-agent dynamics; 3) MVS/Feedforward reconstruction; 4) Embodied AI



Riemann Labs

STAFF RESEARCH ENGINEER

Shenzhen

Jan. 2023 - Dec. 2023

• Urban region reconstruction with drones



Synthesia

RESEARCH INTERN

London, UK

Jun. 2022 - Oct. 2022

• High-fidelity Neural Actor



Facebook

RESEARCH INTERN

Seattle, USA

Jun. 2021 - Oct. 2021

• Semantic 3D reconstruction for eye tracking



Google

SOFTWARE ENGINEER

Remote

Apr. 2015 - Sep. 2016

• Developing [tiny-dnn](#), e.g. a deep learning backend; 3 submodules: [3D metric learning](#), [quantized deep learning](#) and [super resolution](#).

Awards

Fellows 2017-2021, MLH, TUM and Bleence

Munich, Germany

Contest 2016, [Microsoft Open Source Challenge](#), 2nd Prize

Redmond, U.S.A

2013, SCILAB Scientific Simulation Contest, 1st Prize

Hefei

2009, Senior High Math Contest, National 3rd Prize

Dalian

Awards 2019, Outstanding Non-CSC PhD Students Abroad Scholarship

Munich, Germany

2016, National Scholarship

Beijing

2017, Outstanding Master Graduate of Beijing

Beijing

2014, Outstanding Bachelor Graduate of Beijing

Beijing

Tracks 2015, Beijing International Triathlon, Bronze Medal in Division 20-24

Beijing

2016, Capital College Track and Field 4×400m, Gold Medal in Division B

Beijing

2014, Capital College Track and Field 3000m steeplechase, Bronze Medal in Division B

Beijing