

Yida WANG

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Education

Technische Universität München Germany

Рн.D. in Computer Science

Beijing University of Posts and Telecommunications PR. China

M.Sc.Eng. in Electronics and Communication Engineering

Beijing University of Posts and Telecommunications PR. China

B.Sc. in Communication Engineering

Publications

- Self-supervised Latent Space Optimization with Nebula Variational Coding
- 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

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

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

 $\ \, \text{YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, } \underline{\text{International Journal of Computer Vision (IJCV)}}^{2022} \\$

SoftPoolNet: Shape Descriptor for Point Cloud Completion and Classification [4]

 $\textit{YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, } \underline{\textit{European Conference on Computer Vision (ECCV)}}^{2020} \textit{ oral } \underline{\textit{demo}} \\$

__ 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)-RAL 2020

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

__ 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)-RAL²⁰¹⁹ DEMO

 $_{\mbox{\tiny [O]}}$ Adversarial Semantic Scene Completion from a Single Depth Image

Yida Wang, David Joseph Tan, Nassir Navab and Federico Tombari, $\underline{\mathtt{3DV}}^{2018}$ $\underline{\mathtt{DEMO}}$

YIDA WANG AND WEIHONG DENG, IEEE TRANSACTIONS ON IMAGE PROCESSING (TIP) 2018

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

 $\lceil 11 \rceil$ Self-restraint Object Recognition by Model Based CNN Learning

YIDA WANG AND WEIHONG DENG, $\underline{\sf INTERNATIONAL}$ CONFERENCE ON IMAGE PROCESSING (ICIP) 2016

Large-Scale 3D Shape Retrieval from ShapeNet Core55

CO-AUTHORED, EUROGRAPHICS (EG)²⁰¹⁶

Face Recognition Using Local PCA Filters

YIDA WANG, SHASHA LI, JIANI HU AND WEIHONG DENG, $CCBR^{2015}$

Awards

[13]

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

Experience

Facebook Reality Lab Research

Seattle, USA

RESEARCH INTERN

Jun. 2021 - Oct. 2021

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

Microsoft Research Redmond, USA

PRIZE WINNER

Apr. 2016 - May 2016

• Make multi-thread deep learning for CNTK, awarded as global 2nd prize in Microsoft open source challenge.

OpenCV - sponsored by Google

Beijing, PRC

SOFTWARE ENGINEER

Apr. 2015 - Sep. 2016

- An initial developer of tiny-dnn, which is the deep learning backend for OpenCV.
- Contributed 3 OpenCV modules: <u>3D multi-task learning</u>, <u>quantized deep learning</u> and <u>super resolution</u>.

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

Extra activity_

Tutor, Technical University of Munich

Munich, Germany

Oct. 2017 - Mar. 2018

• Foundations of Computer Vision

- Recent Trends in 3D Computer Vision and Deep Learning
- Deep Generative Models