



Yida WANG

PH.D STUDENT · CHAIR FOR COMPUTER AIDED MEDICAL PROCEDURES & AUGMENTED REALITY

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Education

Technische Universität München Germany

Ph.D. in Computer Science

Beijing University of Posts and Telecommunications China

M.Sc. Eng. in Electronics and Communication Engineering

Beijing University of Posts and Telecommunications China

B.Sc. in Communication Engineering

Publications

- [1] **RaNeuS: Ray-adaptive Neural Surface Reconstruction**
YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB, FEDERICO TOMBARI, IEEE CONFERENCE ON 3D VISION (3DV)²⁰²³ ORAL
- [2] **SecNet: Semantic Eye Completion in Implicit Field**
YIDA WANG, YIRU SHEN, DAVID JOSEPH TAN, FEDERICO TOMBARI, SACHIN TALATHI, NEURIPS GAZE MEETS ML (PMLR)²⁰²²
- [3] **Lidar Upsampling with Sliced Wasserstein Distance**
ARTEM SAVKIN, YIDA WANG, SEBASTIAN WIRKERT, NASSIR NAVAB, FEDERICO TOMBARI, IEEE ROBOTICS AND AUTOMATION LETTERS (RAL)²⁰²²
- [4] **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
- [5] **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
- [6] **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
- [7] **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](#)
- [8] **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)-RAL²⁰²⁰
- [9] **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
- [10] **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](#)
- [11] **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](#)
- [12] **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

[13] **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

[14] **Self-restraint Object Recognition by Model Based CNN Learning**
YIDA WANG AND WEIHONG DENG, [INTERNATIONAL CONFERENCE ON IMAGE PROCESSING \(ICIP\)](#)²⁰¹⁶

[15] **Large-Scale 3D Shape Retrieval from ShapeNet Core55**
CO-AUTHORED, [EUROGRAPHICS \(EG\)](#)²⁰¹⁶

[16] **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 _N , 1 st _P and 2 nd _C 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

Synthesisia	London, UK
RESEARCH INTERN	Jun. 2022 - Oct. 2022
• High-fidelity Neural Actor	
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 2 nd 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: 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

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