



王一达

计算机科学博士 • 计算机视觉和机器学习

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教育经历

慕尼黑工业大学	Germany	德国慕尼黑
Ph.D. in 计算机科学		2017 - 2022
北京邮电大学	China	北京
M.Sc.Eng. in 电子与通信工程		2014 - 2017
北京邮电大学	China	北京
B.Sc. in 通信工程		2010 - 2014

论文节选

- [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, CCBR²⁰¹⁵

奖励基金

Fellows	2017-2021, MLH ^[1] , TUM ^[2] , Bleence ^[3]	Munich, Germany
Contest	2016, 微软全球开源挑战赛 2 nd 等奖	Redmond, U.S.A
	2016, BUPT Innovation Awards 1 st 等奖	Beijing, PRC
	2015, 天池大数据竞赛决赛	Hangzhou, PRC
	2013, SCILAB Scientific open source Contest 1 st 等奖	Hefei, PRC
	2009, 全国高中生联合竞赛 3 rd , 1 st and 2 nd 等奖	Dalian, PRC
Awards	2019, 国家优秀博士留学生奖学金	Munich, Germany
	2017, 北京优秀硕士毕业生	Beijing, PRC
	2016, 国家奖学金	Beijing, PRC
	2014, 北京优秀本科毕业生	Beijing, PRC
Others	2016, 首都高校田径运动会 4×400 金牌	Beijing, PRC
	2015, 北京国际铁人三项铜牌	Beijing, PRC
	2014, 首都高校田径运动会 3000 steeplechase 铜牌	Beijing, PRC

工作经历

Huawei 2012 Labs	Shenzhen, China
RESEARCH ENGINEER	Dec. 2022 - Dec. 2023
<ul style="list-style-type: none"> 大规模城市 3D 建模, 预研模型超过大疆制图的航拍 3D 重建精度, 部署部门航拍和绕拍的业务场景。 	
Synthesia	London, UK
RESEARCH INTERN	Jun. 2022 - Oct. 2022
<ul style="list-style-type: none"> 高精度虚拟人建模, 支撑 Synthesia 人体动画摄影棚体表建模, 重现发丝级的 3D 重建。 	
Facebook Reality Labs	Seattle, USA
RESEARCH INTERN	Jun. 2021 - Oct. 2021
<ul style="list-style-type: none"> 对 Oculus 虚拟眼镜进行功能拓展, 对扫描到的眼球做附带语义信息的 3D 补全, 方便虚拟眼镜对人眼的实时视线追踪。 	
Microsoft Research	Redmond, USA
PRIZE WINNER	Apr. 2016 - May 2016
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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. 	

专业能力

计算机语言	C/C++, Python, LaTeX, CUDA, Matlab, Scilab, shell, markdown
模式识别	Bayesian Inference, Tensor Algebra, Deep Learning, 3D Vision
语言	English (TOEFL: 92 & CET-6: 552), Chinese, Deutsch

其他活动

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