王一达

计算机科学博士 • 计算机视觉和机器学习

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教育背景

Technische Universität München *Germany*

PH.D. *in Computer Science*

Beijing University of Posts and Telecommunications *PRC*

M.SC.ENG. *in Electronics and Communication Engineering - major GPA: 3.42*

Beijing University of Posts and Telecommunications *PRC*

B.SC. *in Communication Engineering - major GPA: 3.58*

出版物

[1] **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]

[2] **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]

[3] **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]

[4] **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

[5] **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]

[6] **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]

[7] **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)-RAL[2019] DEMO

[8] **Adversarial Semantic Scene Completion from a Single Depth Image**

YIDA WANG, DAVID JOSEPH TAN, NASSIR NAVAB AND FEDERICO TOMBARI, 3DV[2018] DEMO

[9] **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]

[10] **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]

[11] **Self-restraint Object Recognition by Model Based CNN Learning**

YIDA WANG AND WEIHONG DENG, INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP)[2016]

[12] **Large-Scale 3D Shape Retrieval from ShapeNet Core55**

CO-AUTHORED, EUROGRAPHICS (EG)[2016]

[13] **Face Recognition Using Local PCA Filters**
YIDA WANG, SHASHA LI, JIANI HU AND WEIHONG DENG, CCBR[2015]

奖励基金

Fellows	2017-2021, MLH[1], TUM[2] and Bleence[3] 基金	*Munich, Germany*
Contest	2016, 微软全球开源挑战赛 2nd 等奖	*Redmond, U.S.A*
	2016, BUPT Innovation Awards 1st 等奖	*Beijing, PRC*
	2015, 天池大数据竞赛决赛	*Hangzhou, PRC*
	2013, SCILAB Scientific open source Contest 1st 等奖	*Hefei, PRC*
	2009, National Math, Chemistry and Physics Contest of Senior High 3^{rd}_{N}, 1^{st}_{P} and 2^{nd}_{C} 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

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: 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