Yida WANG

PH.D STUDENT · COMPUTER VISION AND PATTERN RECOGNITION

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Education

Technische Universität München *Germany*

PH.D. *in Computer Science*

Beijing University of Posts and Telecommunications *PR. China*

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

Beijing University of Posts and Telecommunications *PR. China*

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

Publications

[1] **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]

[2] **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]

[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]

Awards

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 3^{rd}N, 1^{st}P and 2^{nd}C prize	*Dalian, PRC*
Awards	2019, Outstanding oversea PhD student[top 25 in Germany]	*Munich, Germany*
	2017, Excellent Master Graduate of Beijing City	*Beijing, PRC*
	2016, National Master Scholarship[top-tier scholarship in China]	*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*
	2014, Capital College Track and Field Games 3000 steeplechase Bronze medal	*Beijing, PRC*
	2015, Beijing International Triathlon 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: 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