Xiaoming Deng

CONTACT INFORMATION

Professor
Beijing Key Laboratory of Human-Computer Interaction
Institute of Software, Chinese Academy of Sciences
4# South Fourth Street
Zhong Guan Cun, Beijing 100190, P.R. China

E-mail: idengxm@gmail.com
WWW: www.idengxm.com

RESEARCH INTERESTS

Computer vision: Capture and synthesize high-quality 3D/2D human gestures, design gesture-based user interface, and understand 3D/2D scene.

ACADEMIC APPOINTMENTS

Professor September 2021 to present
Beijing Key Laboratory of Human-Computer Interaction, Institute of Software, Chinese Academy of Sciences (ISCAS)

Associate Professor July 2011 to August 2021
Beijing Key Laboratory of Human-Computer Interaction, Institute of Software, Chinese Academy of Sciences (ISCAS)

Research Fellow April 2012 to June 2013
Department of Electrical & Computer Engineering, National University of Singapore (NUS)
- Advisor: Professor Ping Tan

Assistant Professor June 2010 to June 2011
Beijing Key Laboratory of Human-Computer Interaction, Institute of Software, Chinese Academy of Sciences

Postdoctoral Research Fellow January 2008 to May 2010
Virtual Reality Laboratory, Institute of Computing Technology, Chinese Academy of Sciences (ICT,CAS)
- Advisor: Professor Zhaoqi Wang
- Also working with Professor Shihong Xia

EDUCATION

National Laboratory of Pattern Recognition (NLPR), Institute of Automation, Chinese Academy of Sciences, Beijing, China

Ph.D., Pattern Recognition and Intelligent System, January 2008
- Thesis Topic: *Omnidirectional Camera Calibration and 3D Reconstruction*
- Advisor: Professor Fuchao Wu
- Also working with Professor Zhanyi Hu and Professor Yihong Wu
- Area of Study: Computer Vision

School of Mathematics and Statistics, Wuhan University, Wuhan, China

B.S. and M.S., Applied Mathematics, Computational Mathematics, June 2001 and June 2004

AWARDS AND HONORS

- Excellent Young Scientist, Chinese Simulation Federation, 2019.
- CCF Science and Technology Award Invention Award: Key Technology of 3D Dynamical Human Modelling and Applications (the first prize), 2018.
- Distinguished Young Researcher Program, Institute of Software, Chinese Academy of Sciences, 2015.
- NVIDIA Hardware Grant, 2015, 2016.
- Excellent Young Researcher Program, Institute of Software, Chinese Academy of Sciences, 2014.
- Member of Youth Innovation Promotion Association, Chinese Academy of Sciences, 2013.

- K.C.Wong Post-doctoral Fellowship Award, 2009 (Awarded annually to 50 post-doctoral research fellows from all institutes of Chinese Academy of Sciences).
- Huawei Scholarship for Outstanding Graduate Students, 2003.

SELECTED PREPRINT

[1] **Xiaoming Deng**, Shuo Yang, Yinda Zhang, Ping Tan, Liang Chang, Hongan Wang. Hand3D: Hand Pose Estimation using 3D Neural Network. *arXiv:1704.02224* [cs.CV] (7 Apr 2017).

SELECTED REFEREED JOURNAL PUBLICATIONS

[2] Jianping Jiang, Jiahe Li, Baowen Zhang, **Xiaoming Deng***, Boxin Shi*. EvHandPose: Event-based 3D Hand Pose Estimation with Sparse Supervision. **IEEE Transactions on Pattern Analysis and Machine Intelligence** (2024)

[3] **Xiaoming Deng**, Dexin Zuo, Yinda Zhang, Zhaopeng Cui, Jian Cheng, Ping Tan, Liang Chang, Marc Pollefeys, Sean Fanello, Hongan Wang. Recurrent 3D Hand Pose Estimation Using Cascaded Pose-guided 3D Alignments. **IEEE Transactions on Pattern Analysis and Machine Intelligence** (2023)

[4] Ran Zuo, **Xiaoming Deng**, Keqi Chen, Zhengming Zhang, Yu-Kun Lai, Fang Liu, Cuixia Ma, Hao Wang, Yong-Jin Liu, Hongan Wang. Fine-Grained Video Retrieval with Scene Sketches. **IEEE Transactions on Image Processing** (2023)

[5] Fang Liu, **Xiaoming Deng**, Changqing Zou, Yu-Kun Lai, Keqi Chen, Ran Zuo, Cuixia Ma, Yong-Jin Liu, Hongan Wang. SceneSketcher-v2: Fine-Grained Scene-Level Sketch-Based Image Retrieval using Adaptive GCNs. **IEEE Transactions on Image Processing**. (2022)

[6] Fang Liu, **Xiaoming Deng**, Jiancheng Song, Yu-Kun Lai, Yong-Jin Liu, Hao Wang, Cuixia Ma, Shengfeng Qin, Hongan Wang. SketchMaker: Sketch Extraction and Reuse for Interactive Scene Sketch Composition. **ACM Transactions on Interactive Intelligent Systems**. (2022)

[7] **Xiaoming Deng**, Yuying Zhu, Yinda Zhang, Zhaopeng Cui, Ping Tan, Wentian Qu, Cuixia Ma, Hongan Wang. Weakly Supervised Learning for Single Depth-Based Hand Shape Recovery. **IEEE Transactions on Image Processing**. (2021)

[8] **Xiaoming Deng**, Yinda Zhang, Jian Shi, Yuying Zhu, Dachuan Cheng, Dexin Zuo, Zhaopeng Cui, Ping Tan, Liang Chang, Hongan Wang. Hand Pose Understanding with Large-Scale Photo-Realistic Rendering Dataset. **IEEE Transactions on Image Processing**. (2021)

[9] **Xiaoming Deng**, Yinda Zhang, Shuo Yang, Ping Tan, Liang Chang, Ye Yuan, Hongan Wang. Joint Hand Detection and Rotation Estimation Using CNN. **IEEE Transactions on Image Processing** (2018)

[10] Zihao Zhang, Lei Hu, **Xiaoming Deng**, and Shihong Xia. Weakly Supervised Adversarial Learning for 3D Human Pose Estimation from Point Clouds. **IEEE Transactions on Visualization and Computer Graphics** (2020)

[11] Ze-Yuan Huang, Qiang He, Kevin T. Maher, **Xiaoming Deng**, Yu-Kun Lai, Cuixia Ma, Sheng Feng Qin, Yong-Jin Liu, Hongan Wang. SpeechMirror: A Multimodal Visual Analytics System for Personalized Reflection of Online Public Speaking Effectiveness. **IEEE Transactions on Visualization and Computer Graphics** (2024)

[12] Kevin Maher, Zeyuan Huang, Jiancheng Song, **Xiaoming Deng**, Yu-Kun Lai, Cuixia Ma, Hao Wang, Yong-Jin Liu, and Hongan Wang. E-ffective: A Visual Analytic System for Exploring the Emotion and Effectiveness of Inspirational Speeches. **IEEE Transactions on Visualization and Computer Graphics** (2021)

[13] Xiaobing Du, **Xiaoming Deng**, Hangyu Qin, Yezhi Shu, Fang Liu, Guozhen Zhao, Yu-Kun Lai, Cuixia Ma, Yong-Jin Liu, Hongan Wang, MMPosE: Movie-Induced Multi-Label Positive Emotion Classification Through EEG Signals. **IEEE Transactions on Affection Computing** (2023)

[14] Xiaobing Du, Cuixia Ma, Guanhua Zhang, Jinyao Li, Yu-Kun Lai, Guozhen Zhao, **Xiaoming Deng**, Yong-Jin Liu, Hongan Wang, An Efficient LSTM Network for Emotion Recognition from Multichannel EEG Signals. **IEEE Transactions on Affection Computing** (2020)

[15] Wei Zhang, Zeyi Lin, Jian Cheng, Cuixia Ma, **Xiaoming Deng***, Hongan Wang*, STA-GCN: Two-Stream GCN with Spatial-Temporal Attention for Hand Gesture Recognition. **The Visual Computer Journal** (2020)

[16] Liang Chang, Lihua Jin, Lifen Weng, Wentao Chao, Xuguang Wang, **Xiaoming Deng***, Qiulei Dong*, Face Sketch Learning with Human Sketch Drawing Order Enforcement. **Science China Information Sciences** (2020)

[17] Sa Wang, Zhengxin Cheng, **Xiaoming Deng**, Liang Chang, Fuqing Duan, Ke Lu, Leveraging 3D Blendshape for Facial Expression Recognition using CNN. **Science China Information Sciences** 63(2) (2020)

[18] Dachuan Cheng, Jian Shi, Yanyun Chen, **Xiaoming Deng**, Xiaopeng Zhang. Learning Scene Illumination by Pairwise Photos from Rear and Front Mobile Cameras. **Computer Graphics Forum** (2018)

[19] Liang Chang, **Xiaoming Deng***, Mingquan Zhou, Zhongke Wu, Ye Yuan, Shuo Yang, Hongan Wang. Convolutional Neural Networks in Image Understanding. **Acta Automatica Sinica(AAS)** (2016)

[20] **Xiaoming Deng**, Fuchao Wu, Yihong Wu, Fuqing Duan, Liang Chang, and Hongan Wang. Self-calibration of Hybrid Central Catadioptric and Perspective Cameras. **Computer Vision and Image Understanding** 116(6): 715-729 (2012)

[21] Fuqing Duan, Fuchao Wu, Mingquan Zhou, **Xiaoming Deng**, and Yun Tian. Calibrating Effective Focal Length for Central Catadioptric Cameras using One Space Line. **Pattern Recognition Letters** 33(5): 646-653 (2012)

[22] Hui Zeng, **Xiaoming Deng**, and Zhanyi Hu. A New Normalized Method on Line-based Homography Estimation. **Pattern Recognition Letters** 29(9): 1236-1244 (2008)

[23] Liang Chang, **Xiaoming Deng**, Suiwu Zheng, Yongqing Wang. Scaling Up Kernel Grower Clustering Method for Large Data Sets via Core-sets. **Acta Automatica Sinica(AAS)** 34 (3): 376-382(2008)

[24] **Xiaoming Deng**, Fuchao Wu, Yihong Wu. An Easy Calibration Method for Central Catadioptric Cameras, **Acta Automatica Sinica(AAS)** (2007)

SELECTED CONFERENCE PUBLICATIONS

[25] Yang Zou, Yanguang Wan, Yonghao Zhang, Xiao Zhou, Jian Cheng, Cuixia Ma, Chun Yu*, **Xiaoming Deng***, Hongan Wang. Gesture Builder: Flexible Gesture Customization and Efficient Recognition on VR Devices. **Ubicomp** 2025.

[26] Wentian Qu, Chenyu Meng, Heng Li, Jian Cheng, Cuixia Ma, Hongan Wang, Xiao Zhou, **Xiaoming Deng***, Ping Tan*, Universal Features Guided Zero-Shot Category-Level Object Pose Estimation. **AAAI** 2025.

[27] Yonghao Zhang, Qiang He, Yanguang Wan, Yinda Zhang, **Xiaoming Deng***, Cuixia Ma*, Hongan Wang, Diffgrasp: Whole-Body Grasping Synthesis Guided by Object Motion Using a Diffusion Model. **AAAI** 2025.

[28] Wentian Qu, Jiahe Li, Jian Cheng, Jian Shi, Chenyu Meng, Cuixia Ma, Hongan Wang, **Xiaoming Deng***, Yinda Zhang*. HOGSA:Bimanual Hand-Object Interaction Understanding with 3D Gaussian Splatting Based Data Augmentation. **AAAI** 2025.

[29] Jianping Jiang, Xinyu Zhou, Bingxuan Wang, **Xiaoming Deng***, Chao Xu, Boxin Shi*, Complementing Event Streams and RGB Frames for Hand Mesh Reconstruction. **CVPR** 2024.

[30] Ran Zuo, Haoxiang Hu, **Xiaoming Deng***, Cangjun Gao, Zhengming Zhang, Yukun Lai, Cuixia Ma*, Yong-Jin Liu*, Hongan Wang, SceneDiff: Generative scene-level image retrieval with text and sketch using diffusion models. **IJCAI** 2024.

[31] Haoxiang Hu, Cangjun Gao, Yaokun Li, **Xiaoming Deng**, Yu-Kun Lai, Cuixia Ma, Yong-Jin Liu, Hongan Wang, SpaceGTN: A Time-Agnostic Graph Transformer Network for Handwritten Diagram Recognition and Segmentation. **AAAI** 2024.

[32] Zeyuan Huang, Cangjun Gao, Haiyan Wang, **Xiaoming Deng**, Yu-Kun Lai, Cuixia Ma, Shengfeng Qin, Yong-Jin Liu, Hongan Wang, SpeciFingers: Finger Identification and Error Correction on Capacitive Touchscreens. **Ubicomp** 2024.

[33] Wentian Qu, Zhaopeng Cui, Yinda Zhang, Chenyu Meng, Cuixia Ma, **Xiaoming Deng**, Hongan Wang, Novel-view synthesis and pose estimation for hand-object interaction from sparse views. **ICCV** 2023.

[34] Baowen Zhang, Jiahe Li, **Xiaoming Deng**, Yinda Zhang, Cuixia Ma, Hongan Wang, Self-supervised learning of implicit shape representation with dense correspondence for deformable objects. **ICCV** 2023.

[35] Jian Cheng#, Yanguang Wan#, Dexin Zuo, Cuixia Ma, Jian Gu, Ping Tan, Hongan Wang, **Xiaoming Deng***, Yinda Zhang*, Efficient virtual view selection for 3D hand pose estimation, **AAAI** 2022.

[36] Baowen Zhang, Yangang Wang, **Xiaoming Deng***, Yinda Zhang*, Ping Tan, Cuixia Ma, Hongan Wang, Interacting two-hand 3D pose and shape reconstruction from single color image, **ICCV** 2021.

[37] Zihao Zhang#, Lei Hu#, **Xiaoming Deng#**, Shihong Xia*. Sequential 3D human pose estimation using adaptive point cloud sampling strategy, **IJCAI** 2021.

[38] Fang Liu, Changqing Zou, **Xiaoming Deng***, Ran Zuo, Yu-Kun Lai, Cuixia Ma*, Yong-Jin Liu* and Hongan Wang. SceneSketcher: Fine-Grained Image Retrieval with Scene Sketches, **ECCV** 2020.

[39] Zeyi Lin, Wei Zhang, **Xiaoming Deng***, Cuixia Ma and Hongan Wang*. Image-based Pose Representation for Action Recognition and Hand Gesture Recognition. **FG** 2020.

[40] Fang Liu, **Xiaoming Deng**, Yu-Kun Lai, Yong-Jin Liu, Cuixia Ma and Hongan Wang. SketchGAN: Joint Sketch Completion and Recognition with Generative Adversarial Network. **CVPR** 2019.

[41] Wentao Chao, Liang Chang, Xuguang Wang, Jian Cheng, **Xiaoming Deng**, Fuqing Duan. High-fidelity Face sketch-to-photo Synthesis Using Generative Adversarial Network. **ICIP** 2019.

[42] Yikun Dou, Xuguang Wang, Yuying Zhu, **Xiaoming Deng***, Cuixia Ma, Liang Chang, Hongan Wang. Cascaded Point Network for 3D Hand Pose Estimation. **ICASSP** 2019.

[43] Yikun Wang, Liang Chang, Yuhua Cheng, Lihua Jin, Zhengxin Cheng, **Xiaoming Deng**, Fuqing Duan. Text2Sketch: Learning Face Sketch from Facial Attribute Text. **ICIP** 2018 (oral presentation).

[44] Liang Chang, Yves Rozenholc, **Xiaoming Deng**, Fuqing Duan, Mingquan Zhou. Face Sketch Synthesis Using Non-local Means and Patch-based Seaming. **ICIP** 2015 (oral presentation).

[45] **Xiaoming Deng**, Jie Liu, Feng Tian, Liang Chang, Hongan Wang. Motion Estimation of Multiple Depth Cameras Using Spheres. **ICIP** 2014.

[46] **Xiaoming Deng**, Shihong Xia, Wenzhong Wang, Zhaoqi Wang, Liang Chang, Hongan Wang. Automatic Gait Motion Capture with Missing-marker Fillings. **ICPR** 2014.

[47] Zhenglong Zhou, Bo Shu, Shaojie Zhuo, **Xiaoming Deng**, Ping Tan, Stephen Lin. Image-based Clothes Animation for Virtual Fitting. **SIGGRAPH Asia** 2012 Technique Briefs.

[48] Liang Chang, **Xiaoming Deng**, Mingquan Zhou, Fuqing Duan, Zhongke Wu: Smoothness-constrained Face Photo-sketch Synthesis using Sparse Representation. **ICPR** 2012.

[49] **Xiaoming Deng**, Fuchao Wu, Yihong Wu, Liang Chang, Wei Liu, Hongan Wang. Calibration of Central Catadioptric Camera with One-dimensional Object undertaking General Motions. **ICIP** 2011 (oral presentation).

[50] Liang Chang, Mingquan Zhou, Yanjun Han, **Xiaoming Deng**. Face Sketch Synthesis via Sparse Representation. **ICPR** 2010 (oral presentation).

[51] Wenzhong Wang, **Xiaoming Deng**, Xianjie Qiu, Shihong Xia, Zhaoqi Wang. Learning Local Models for 2D Human Motion Tracking. **ICIP** 2009.

[52] **Xiaoming Deng**, Fuchao Wu, Yihong Wu, Fuqing Duan. Visual Metrology with Uncalibrated Radial Distorted Images. **ICPR** 2008.

GRANTS

PI, "Neural Implicit Hand Model for Tracking and Grasping", NSF of China, 2025-2028.

Co-PI, "Construction of Human-Computer Interaction System Based on Orthodontic Digital Virtual Human Model", Key Project of Beijing NSF Program, 2023-2026.

PI, "Robot Manipulation and Interaction", Industrial Project, 2023-2025.

PI, "Multi-modal Interaction Methods and Systems", Industrial Project, 2023-2024.

PI, "Mid-air Gesture Interaction with Large Displays", Beijing Winter Olympic Research Strategy, 2021-2023.

PI, "XR Hand Tracking", Industrial Projects, 2020-2022.

PI, "Hand Motion Capture with a Depth Sensor", Key Project of Beijing NSF Program, 2019-2021.

PI, "Human Gait Analysis", Industrial Project, 2018-2019.

PI, "Human Motion Capture, Analysis and Interactions: A Computer Vision Approach ", Distinguished Young Researcher Program, ISCAS, 2015-2020.

PI, "Markerless Human Motion Capture with a Depth Camera", NSF of China, 2014-2018.

PI, "Geometric Computing of Multiple Depth Cameras and Its Applications in 3D Reconstruction", Youth Innovation Promotion Association of CAS, 2012-2015.

PI, "SLAM with a Omnidirectional Camera", NSF of China, 2011-2013.

PI, "Geometric Computing of Omnidirectional Vision", NLPR open grant, 2010-2011.

PI, "Automatic Gait Motion Capture and its Clinical Applications", Chinese Postdoctoral Council, 2009-2010.

Current Students (including Co-supervised Students)

Name	Degree	Research Topic
Chenyu Meng	PhD	Robotics Manipulation
Liufei Ouyang	Ph.D. (UCAS)	Robotics Manipulation
Qiang He	PhD	Manipulation Synthesis
Yang Zou	MSc	Neural Rendering
Haosheng Li	MSc	Robotics Manipulation
Jiaxi Sun	MSc	Online Gesture Recognition

Graduated Students and Partial Interns

Name	Degree	Research Topic	First job/Now
Wentian Qu	PhD	Hand-Object Interaction Reconstruction	Assistant Professor, Institute of Software, CAS
Ye Yuan	MSc	Hand Detection	Research Lead, China Telecom Research
Shuo Yang	MSc	Hand Pose Estimation	Associate Professor, Shenzhen MSU-BIT
Yuying Zhu	MSc	Hand Shape Reconstruction	CV researcher, ByteDance
Dexin Zuo	MSc	Hand Pose Estimation	PhD student, SJTU (with Prof. Danping Zou)
Zeyi Lin	MSc	Hand Gesture Recognition	CV researcher, ByteDance
Jian Cheng	MSc	Hand Pose and Interactions	CV researcher, Alibaba
Mingyu Ke	MSc	Hand-Object Interaction	CV researcher, BIGO
Baowen Zhang	MSc	Interacting Two-Hand Shape Reconstruction	PhD student, HKUST (with Prof. Ping Tan)
Yanguang Wan	MSc	Gesture-based UI	Researcher, HikVision Research
Jiahe Li	MSc	Interacting Two-Hand Shape Reconstruction	Researcher, Meitu Research
Yonghao Zhang	MSc	Manipulation Synthesis	Researcher, Goertek Research
Wentao Chao	Intern	Face Synthesis	PhD student, BNU (with Prof. Fuqing Duan)
Tongtong Wu	Intern	Recognizing HOI	Researcher, AI Lab of Yuanfudao
Po-Yi Lam	Intern	Hand Shape Fitting	RA, City University of Hong Kong
Zitan Chen	Intern	Shape Reconstruction	Graduate student, Carnegie Mellon, USA
Xin Zhao	Intern	Hand Pose Estimation	PhD student, Central South University
Haopeng Xie	Intern	Gesture Interaction	Undergraduate, Rensselaer Polytechnic, USA
Yudi Lin	Intern	Multi-Modal Interaction	Graduate student, University of South California, USA
Minxuan Zhu	Intern	Whole-body Pose Estimation	Undergraduate, University of California, Berkeley, USA

Graduated Co-supervised Students

Name	Degree	Research Topic	First job/Now
Zihao Zhang	PhD	Human Reconstruction	Assistant Professor, ICT, CAS
Fang Liu	PhD	Scene Understanding with Sketch	Assistant Professor, Communication University of China
Xiaobing Du	PhD	Multi-Modal Interaction	Scientist, Huawei 2012 Lab
Zhengming Zhang	PhD	Sketch-based Image Retrieval	Scientist, China Mobile Research
Ran Zuo	PhD	Sketch-based Video Retrieval	Assistant Professor, Communication University of China
Dachuan Cheng	MSc	Hand Pose Estimation	Research Lead, ByteDance
Keqi Chen	MSc	Scene Understanding	PhD student, University of Strasbourg, France
Hangyu Qin	MSc	Multi-Modal Machine Learning	PhD student, National University of Singapore, Singapore
Jianping Jiang	MSc	Event-based 3D Hand Reconstruction	Researcher, SenseTime Research
Hongzhi Ruan	MSc	Motion Prediction	Researcher, Li Auto Research

Press Release

Paralympic Games Booms Rehabilitation Technical Aids, www.people.com.cn, Maintained by People Daily, 2008

Teaching Experimence

Institute of Software, Chinese Academy of Sciences, Beijing, China

Guest Lecturer: Computer Vision November 2013-present

- Ph.D. student course in computer science.
- Lecture: an overview of computer vision, image based modelling, and object recognition

University of Chinese Academy of Sciences, Beijing, China

Lecturer: Computer Vision Based User Interface December 2015, November 2016

- Master student course in computer science
- Lecture: image based modelling, convolutional neural networks in image understanding, motion tracking/synthesis and applications in user interfaces

Professional Service

Committee Service

- Committee, Computer Vision Task Forces Forum, China Computer Federation.

Grant Evaluation

- Panelist of Project Performance Evaluation, Major R&D Programs, Chinese Academy of Sciences, from 2017.
- Panelist of Project Performance Evaluation, NSF of China, from December 2016.
- Panelist, Multimedia Reorganization Projects, National High-Tech R&D Program of China (863 Program), 2014.
- Reviewer, NSF of China, 2012-present.

Journal Reviewer

- *AAS– Acta Automatica Sinica.*
- *CVIU– Computer Vision and Image Understanding.*
- *IJCV– International Journal of Computer Vision.*
- *JCAD– Journal of Computer-Aided Design & Computer Graphics.*
- *JCST– Journal of Computer Science and Technology.*
- *JEI– Journal of Electronic Imaging.*
- *MVA– Machine Vision and Applications.*
- *OE– Optical Engineering.*
- *PR– Pattern Recognition.*
- *PRL– Pattern Recognition Letters.*
- *SIGPRO– Signal Processing.*
- *SMC– IEEE Transactions on Systems, Man and Cybernetics.*
- *TCSVT– IEEE Transactions on Circuits and Systems for Video Technology.*
- *TIP– IEEE Transactions on Image Processing.*
- *TMM– IEEE Transactions on Multimedia.*
- *TOMM– ACM Transactions on Multimedia Computing, Communications, and Applications.*
- *TVC– The Visual Computer.*

Program Committee Member or Reviewer

- *AAAI– AAAI Conference on Artificial Intelligence,2021,2022,2023.*
- *ACCV– Asia Conference on Computer Vision,2014.*
- *APCHI– Asia Pacific Conference on Computer Human Interaction, 2012.*
- *BMVC– British Conference on Computer Vision, 2021.*
- *CCCV– Chinese Conference on Computer Vision, 2015.*
- *CVPR– IEEE/CVF Conference on Computer Vision and Pattern Recognition, 2021, 2022, 2023.*
- *ECCV– European Conference on Computer Vision, 2022.*
- *Eurographics– Annual Conference of the European Association for Computer Graphics, 2022,2024.*
- *ICCV– IEEE/CVF International Conference on Computer Vision, 2023.*
- *ICPR– International Conference on Pattern Recognition, 2006, 2008, 2012.*
- *IJCAI– International Joint Conference on Artificial Intelligence, 2021, 2022, 2023.*
- *IUI– ACM International Conference on Intelligent User Interfaces, 2012.*
- *NIPS– Neural Information Processing Systems, 2016.*
- *SIGCHI– ACM CHI Conference on Human Factors in Computing Systems, 2012.*
- *SIGGRAPH Asia– ACM Conference on Computer Graphics and Interactive Techniques in Asia, 2012.*
- *VRST– ACM Symposium on Virtual Reality Software and Technology, 2019.*
- *WACV– IEEE Winter Applications of Computer Vision Conference, 2015, 2016, 2017.*