Dr. Jingwen Dai

Contact Information 11/F, Tower A, Coolpad Building, Nanshan District, Shenzhen,

Guangdong, China Website: http://jwdai.github.io/

SUMMARY

- 10+ years' research and development experience in the domain of computer vision, and its applications in human-computer interaction, & virtual/augmented reality.

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- Strong team leadership skills in effective product planning, task oversight and rapid technology transfer, and multi-cultural and multi-national working experience in US, Singapore, Hong Kong and China.

Working EXPERIENCE

Guangdong Virtual Reality Technology Co., Ltd. (aka. Ximmerse), Shenzhen, China Co-Founder, Executive Director & CTO 08/2015 - present

- Board member and lead the whole R&D and engineering team (100+ scientists and engineers of algorithm, hardware, embedded software, SDK, testing and engineering teams).
- Products Highlights
 - 2022 (MR) Rhino X 2.0: A novel stand-alone mixed reality headset with multimodal interaction capability.
 - 2021 (MR) Rhino X Pro: A brand-new stand-alone mixed reality headset with Qualcomm Snapdragon XR2 platform.
 - 2021 (MR) Rhino XH: A tethered mixed reality headset with HiSilicon platform.
 - 2019 (MR) HoloWorld: A mixed reality location-based entertainment (LBE) solution.
 - 2019 (MR) Blaster: A mixed reality PvP shooting experience with NetEase Games.
 - 2019 (MR) LENOVO & DISNEY MIRAGE 1.5 with Marvel Dimension of Heros. https://www.lenovo.com/us/en/mirage-ar/
 - 2019 (MR) Rhino X: An all-new mixed reality system is made up of the Rhino X stand-alone headset and X-Tag based inputs.
 - https://www.ximmerse.com/rhinox
 - 2018 (MR) Slide-in AR headset with ultra wide FOV and unique computer vision based tracking and interaction technology, enabling 6-DoF headset tracking and 6-DoF peripherals tracking.
 - 2018 (AR) Visor X: a brand new headset, designed for hands-free fun, play and work. Turn the small phone screen into a big screen.
 - https://www.ximmerse.com/visor-x
 - 2017 (MR) LENOVO & DISNEY MIRAGE 1.0 with Star Wars: Jedi Challenges. http://www3.lenovo.com/us/en/jedichallenges/
 - 2017 (AR) 3-DoF controller product for MIRA.
 - https://www.mirareality.com
 - 2017 (VR) 6-DoF outside-in VR controller product for HTC LINK. https://www.htc.com/jp/virtual-reality/link/
 - 2017 (VR) 3-DoF VR controller product for ZEISS VR ONE CONNECT. https://www.zeiss.com/virtual-reality/vr-one-connect.html
 - 2017 (VR) 3-DoF VR controller product for OCCIPITAL BRIDGE. https://bridge.occipital.com
 - 2017 (VR) 3-DoF controller in QUALCOMM HMD Accelerator Program (HAP). https://www.qualcomm.com/news/onq/2017/06/27/shift-mobile-vr-now
 - 2016 (VR) 6-DoF VR controller in SAMSUNG Accessary Partership Program (SMAPP).

2016 (VR) 3-DoF VR controller solution for XIAOMI MiVR.

http://www.mi.com/mivr/

Lenovo Research & Technology, Hong Kong

Manager & Advisory Researcher, Image & Visual Computing Lab

04/2015 - 07/2015

• Lead of 3D vision group (6 researchers & 4 engineers), contributing total 3D vision solution to Lenovo Mobile BU, depth based applications of refoucus, magic cut-out and 3D gadget will be launched in Lenovo VIBE S1 in June 2015.

Staff Researcher, Image & Visual Computing Lab

01/2014 - 03/2015

- Technical lead of Super Camera group (3 researchers & 6 engineers), delivering intelligent photography solution to Lenovo Mobile BU, real-time smart composition guide feature has been launched in Lenovo VIBE Shot in May 2015.
- Lead of immersive communication group, prototyping next generation video conference system and tele-presence system.
- Key member of FunnyFace project and push face beautification features (the world first successful case in real-time video call) to Lenovo's video call software *YouYue* in March 2014.
- Principal contributor of Lenovo first gaze correction technology for home video conferencing.

The University of North Carolina at Chapel Hill, NC, USA

Postdoctoral Research Associate, Department of Computer Science

11/2012 - 12/2013

• Research staff in BeingThere Center UNC. Involved in project of mobile animatronics telepresence system and room-size telepresence system.

Nanyang Technological University, Singapore

UNC Visiting Researcher

01/2013 - 12/2013

• Collaborate with the researchers from ETH Zurich and NTU Singapore to develop next generation telepresence system prototypes.

HJTech, Shanghai, China

Senior Research Engineer

04/2010 - 10/2012

- In charge of architecture and algorithm design for face identification based immigration clearance system, which will be applied in Shanghai Yangshan Port.
- Involved in algorithm transplantation on embedded system (DaVinci and ARM platform). In charge of algorithm simplification and optimization.

Co-Founder & CTO 03/2009 - 07/2009

- Co-founded a technology company via funds from venture capital, which is focus on face recognition related products. The core technology is mainly based on my master research works.
- Led the R&D team to optimize face recognition algorithms and develop application software.
- The face identification based products had been applied in many areas: Checking attendance in
 office buildings and schools in Shanghai; Access control in residences in Shanghai and Jiangsu
 and in prisons in Jiangsu, Guangdong and Jiangxi.

The Chinese University of Hong Kong, Hong Kong

Research Assistant, Computer Vision Lab

08/2009 - 08/2012

- Involved in several research projects partially sponsored by Hong Kong Research Grants Council, Qualcomm and CUHK MoE-Microsoft Key Laboratory of Human-Centric Computing and Interface Technologies.
- Research area focused on human-computer interaction in projector-camera system.
- Developed a real-time 6-DOF human head pose estimation system under normal illumination embedded with imperceptible structured codes.
- Developed a natural user interface, making any tabletop surface to which the projection is illuminated become a touch-sensitive computer screen, just by a mere video projector and camera.

Project Supervisor, Computer Vision Lab

03/2010 - 08/2012

In charge of several projects collaborated with companies, short-time RAs and students.

• ASTRI (R&D Company founded by HK Government): "Real-time 3D scanner".

- Matt Fisher (Exchange Student from UC Berkeley): "User-Friendly ProCam Calibration".
- Tiffany Yip (Short Time RA): "Automatic Facial Feature Points Detection".
- Tao Lin (M.S. Student of CUHK): "Fusing Kinect Depth Map".
- Guijin Zou (Exchange Student from Peking Univ.): "3D Reconstruction from one shot".

Shanghai Jiaotong University, Shanghai, China

Research Assistant, Research Center of Intelligent Robotics

09/2006 - 02/2009

- Involved in computer vision group, which is partially sponsored by National Natural Foundation of China and Program for New Century Excellent Talents of Ministry of Education, China.
- Research area focused on face detection, face tracking and face recognition.
- Developed a real-time face recognition system independently, which is the foundation for HJTech products.

EDUCATION

The Chinese University of Hong Kong (CUHK), Hong Kong 08/2009 - 09/2012

Ph.D. in Computer Vision, Department of Mechanical and Automation Engineering

- PhD Thesis: "Use of Projector-Camera System for Human-Computer Interaction"
- GPA: 3.8/4.0

Shanghai Jiaotong University (SJTU), Shanghai, China

09/2006 - 03/2009

M.E. in Robotics, Department of Automation

- Master Thesis: "The Fundamental Research of Practical Face Recognition System"
- Major GPA: 3.7/4.0, Top 5%

PUBLICATIONS

Thesis

- J. Dai, Use of Projector-Camera System for Human-Computer Interaction, *PhD Thesis*, The Chinese University of Hong Kong, September 2012.
- J. Dai, The Fundamental Research of Practical Face Recognition System, *Master Thesis (in Chinese)*, Shanghai Jiao Tong University, January 2009.

Journal Paper (5)

- Z. Zhang, Y. Hu, G. Yu and J. Dai, DeepTag: A General Framework for Fiducial Marker Design, *IEEE Transactions on Pattern Analysis and Machine Intelligence*, to appear.
- G. Yu, Y. Hu and J. Dai, TopoTag: A Robust and Scalable Topological Fiducial Marker System, *IEEE Transactions on Visualization and Computer Graphics*, 27(9):3769-3780, 2021.
- J. Dai and R. Chung, Touchscreen Everywhere: On Transferring a Normal Planar Surface to a Touch-Sensitive Display, *IEEE Transactions on System, Man and Cybernetics, Part B*, 44(8):1383-1396, 2014.
- J. Dai and R. Chung, Embedding Invisible Codes into Normal Video Projection: Principle, Evaluation and Applications, *IEEE Transactions on Circuit and System for Video Technology*, 23(12):2054-2066, 2013.
- J. Dai, D. Liu and J. Su, The Method of Rapid Eye Localization Based on Projection Peak, Pattern Recognition and Artificial Intelligence (in Chinese, Indexed by EI), 22(4):605-609, 2009.

Conference Paper (12)

- J. Dai, G. Welch and H. Fuchs, Encumbrance-free Shader Lamps Avatars for Tele-presence, *In Preparation*.
- Z. Lu, Y. Hu, and J. Dai, WatchAR: 6-DoF Tracked Watch for AR Interaction, In Proc. of IEEE International Symposium on Mixed and Augmented Reality Demo (ISMAR'19), 2019.
- Y. Hu, J. Ren, J. Dai, C. Yuan, L. Xu and W. Wang, Deep Multimodal Speaker Naming, In Proc. of The 23rd Annual ACM International Conference on Multimedia (MM'15), 2015.
- J. Dai and R. Chung, Sensitivity Evaluation of Embedded Code Detection in Imperceptible Structured Light Sensing, In Proc. of IEEE Winter Vision Meetings Workshop on Robot Vision (WoRV'13), pages 34-39, 2013.
- J. Dai and R. Chung, Making Any Planar Surface into a Touch-sensitive Display by a Mere Projector and Camera, In Proc. of 25th IEEE Conference on Computer Vision and Pattern Recognition (CVPR'12) Workshop (PROCAMS'12), pages 35-42, 2012.
- J. Dai and R. Chung, On Making Projector both a Display Device and a 3D Sensor, In Proc. of The 8th International Symposium on Visual Computing (ISVC'12), pages 654-664, 2012.
- J. Dai and R. Chung, Combining Contrast Saliency and Region Discontinuity for Precise Hand

- Segmentation in Projector-Camera System, In Proc. of The 21st International Conference on Pattern Recognition (ICPR'12), pages 2161-2164, 2012.
- J. Dai and R. Chung, Embedding Imperceptible Codes into Video Projection and Applications in Robotics, In Proc. of IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS'12), pages 4399-4404, 2012.
- J. Dai and R. Chung, Head pose estimation by imperceptible structured light sensing, In Proc. of IEEE International Conference on Robotics and Automation(ICRA'11), pages 1646-1651, 2011.
- J. Dai, D. Liu and J. Su, Projection Peak Analysis for Rapid Eye Localization, In Proc. of The International Conference on Computer Vision Theory and Applications (VISAPP'09), pages 315-320, 2009.
- F. Yang, J. Dai and D. Liu, A novel eye localization method based on spectral residual model, In Proc. of The 7th World Congress on Intelligent Control and Automation(WCICA'08), pages 6773-6777, 2008.
- F. Yang, J. Su and J. Dai, Fast Quality Assessment of Face Images for Face Recognition, In Proc. of The 27th Chinese Control Conference (CCC'08), pages 531-535, 2008.

PATENTS

US & Intl. (21)

- J. Dai, J. He, Interactive method and interactive system, *US Patent No.* 11,436,818, granted on September 6, 2022.
- G. Wang, J. Dai, J. He, Y. Wu and L. Cai, Communication connection method, terminal device and wireless communication system, *US Patent No.* 11,375,559, granted on June 28, 2022.
- S. Huang, J. Dai and J. He, Three-dimensional display method, terminal device, and storage medium, *US Patent No.* 11,380,063, granted on July 5, 2022.
- Y. Hu, J. Dai and J. He, Method and device for aligning coordinate of position device with coordinate of imu, *US Patent No.* 11,248,911, granted on February 15, 2022.
- J. Dai and J. He, Augmented reality method, system and terminal device of displaying and controlling virtual content via interaction device, *US Patent No.* 11,244,511, granted on February 8, 2022.
- Y. Hu, G. Yu and J. Dai, Method of device tracking, terminal device, and storage medium, *US Patent No.* 11,127,156, granted on September 21, 2021.
- J. Dai and J. He, System, method, and terminal device for controlling virtual image by selecting user interface element, *US Patent No.* 11,100,723, granted on August 24, 2021.
- J. Dai and J. He, Augmented reality method for displaying virtual object and terminal device therefor, *US Patent No.* 11,087,545, granted on August 10, 2021.
- Y. Hu, S. Huang, J. Dai and J. He, Interactive method and augmented reality system, *US Patent No. 10,977,869*, granted on April 13, 2021.
- Y. Yin, J. Dai and J. He, System for sharing virtual content and method for displaying virtual content, US Patent No. 10,922,042, granted on February 16, 2021.
- Y. Hu, J. Dai and J. He, Method, device and system for identifying light spot, *US Patent No.* 10,922,846, granted on February 16, 2021.
- Y. Hu, J. Dai and J. He, Method and device for identifying light source, *US Patent No.* 10,916,020, granted on February 9, 2021.
- J. He, J. Dai, C. Wan and Y. Hu, Method and device for searching stripe set, *US Patent No.* 10,915,750, granted on February 9, 2021.
- Y. Hu, J. Dai and J. He, Method and device for identifying flashing light source, *US Patent No.* 10,895,799, granted on January 19, 2021.
- S. Huang, J. Dai and J. He, Method and device for aligning coordinate of controller or headset with coordinate of binocular system, *US Patent No.* 10,802,606, granted on October 13, 2020.
- J. He, J. Dai, C. Wan and Y. Hu, Method, device and terminal for determining effectiveness of stripe set, *US Patent No.* 10,795,456, granted on October 6, 2020.
- G. Wang, J. Dai and J. He, Method, device and system for establishing communication connection, *US Patent No.* 10,785,812, granted on September 22, 2020.
- J. He, J. Dai, T. Zhu and C. Wan, Apparatus, methods, and systems for tracking an optical object, *US Patent No.* 10,709,967, granted on July 14, 2020.
- J. He, J. Dai, C. Wan and Y. Hu, Image processing apparatuses and methods, *US Patent No.* 10,402,988, granted on September 3, 2019.
- J. Dai, Y. Hu and J. He, Electronic tracking device, electronic tracking system and electronic tracking method, *US Patent No.* 10,347,002, granted on July 9, 2019.
- J. Dai, Y. Hu and J. He, Methods, devices, and systems for identifying and tracking an object with multiple cameras, *US Patent No.* 10,319,100, granted on June 11, 2019.

CN (45)

- J. He and J. Dai, Generation method, device, electronic equipment and the storage medium of virtual scene, CN Patent No. ZL 2019 1 0578450.1, granted on January 6, 2023.
- Y. Hu, J. Dai and J. He, Positioning method, positioning device, terminal equipment and storage medium, CN Patent No. ZL 2019 1 0822716.2, granted on November 22, 2022.
- Y. Huang, S. Huang, J. Dai and J. He, Virtual content display method and device, terminal equipment and storage medium, *CN Patent No. ZL 2018 1 1652926.3*, granted on November 22, 2022.
- Y. Wu, L. Cai, J. Dai and J. He, Image processing method and device, electronic equipment and visual interaction system, CN Patent No. ZL 2018 1 0942716.1, granted on November 15, 2022.
- Y. Hu, J. Dai and J. He, Marker identification method and device, terminal equipment and storage medium, CN Patent No. ZL 2018 1 0911024.0, granted on August 12, 2022.
- Y. Yin, J. Dai and J. He, Display method, display device, terminal equipment and storage medium, CN Patent No. ZL 2018 1 0910950.6, granted on August 12, 2022.
- Y. Hu, J. Dai and J. He, Marker, marker identification method and device, terminal device and storage medium, *CN Patent No. ZL 2019 1 0822453.5*, granted on August 12, 2022.
- B. Wu, J. Dai and J. He, Device control method and device, display device and storage medium, CN Patent No. ZL 2018 1 1226340.0, granted on July 29, 2022.
- Y. Hu, J. Dai and J. He, Light spot identification method, device and system, *CN Patent No. ZL 2017 8 0007690.5*, granted on May. 31, 2022
- G. Wang, J. Dai and J. He, Communication connection method, device, terminal equipment and wireless communication system, CN Patent No. ZL 2018 1 1021765.8, granted on May 31, 2022.
- Y. Hu, J. Dai and J. He, Display method and device, vehicle-mounted head-up display equipment and storage medium, CN Patent No. ZL 2018 1 1221773.7, granted on May 31, 2022.
- J. Dai and J. He, Virtual content interaction method and device, terminal equipment and storage medium, CN Patent No. ZL 2019 1 0005562.8, granted on May 31, 2022.
- J. Dai and J. He, Method and system for operating a device through augmented reality, *CN Patent No. ZL 2017 8 0005530.7*, granted on April 1, 2022.
- W. Li, B. Rao, J. Dai and J. He, Handheld controller, tracking and positioning method and system, *CN Patent No. ZL 2017 8 0007656.8*, granted on April 1, 2022.
- J. He and J. Dai, Virtual content interaction method, device, system, terminal equipment and storage medium, CN Patent No. ZL 2018 1 1641778.5, granted on April 1, 2022.
- Y. Hu, J. Dai and J. He, Light source identification method and device, CN Patent No. ZL 2017 8 0003631.0, granted on February 22, 2022.
- Y. Wu, J. He and J. Dai, Shooting training method and device, terminal equipment and storage medium, CN Patent No. ZL 2019 1 1412888.9, granted on January 28, 2022.
- Y. Hu, J. Dai and J. He, Calibration method and device based on binocular camera, terminal equipment and storage medium, *CN Patent No. ZL 2019 1 0656422.7*, granted on January 28, 2022.
- Z. Lu, J. Dai and J. He, Virtual content interaction method, device, system, terminal equipment and storage medium, CN Patent No. ZL 2019 1 0377227.0, granted on January 28, 2022.
- J. He and J. Dai, Image processing method, device, system, terminal device and storage medium, CN Patent No. ZL 2019 1 0295517.0, granted on January 28, 2022.
- J. He and J. Dai, Virtual picture processing method, device and system, electronic equipment and storage medium, CN Patent No. ZL 2019 1 0578502.5, granted on December 21, 2021.
- S. Huang, J. Dai and J. He, Optical distortion correction method and device, terminal equipment and storage medium, *CN Patent No. ZL 2018 1 1020965.1*, granted on December 21, 2021.
- Y. Qiao, J. Dai and J. He, Display method, display device, terminal equipment and storage medium, CN Patent No. ZL 2018 1 0924523.3, granted on December 21, 2021.
- Z. Lu, J. Dai and J. He, Virtual content control method, device, system, terminal device and storage medium, CN Patent No. ZL 2019 1 1066795.5, granted on December 3, 2021.
- Y. Hu, J. Dai and J. He, Virtual content display method and device, terminal equipment and storage medium, CN Patent No. ZL 2019 1 0005848.6, granted on November 5, 2021.
- Z. Lu, J. Dai and J. He, Electronic system and method for text input in virtual environment, CN Patent No. ZL 2017 8 0005510.X, granted on November 5, 2021.
- J. He and J. Dai, Virtual scene processing method and device, electronic equipment and storage medium, CN Patent No. ZL 2019 1 0578517.1, granted on September 14, 2021.
- Y. Hu, J. Dai and J. He, Display method, display device, terminal equipment and storage medium, CN Patent No. ZL 2018 1 1468491.7, granted on September 14, 2021.
- S. Huang, J. Dai and J. He, Content display method and device, terminal equipment and content display system, CN Patent No. ZL 2018 1 1023511.X, granted on September 14, 2021.

- J. Dai, Y. Hu and J. He, Method, apparatus and system for identifying and tracking objects using multiple cameras, CN Patent No. ZL 2017 8 0006174.0, granted on June 29, 2021.
- Y. Wu, L. Cai, J. Dai and J. He, Information prompting method and device, terminal equipment and computer readable storage medium, *CN Patent No. ZL 2018 1 1368617.3*, granted on June 22, 2021.
- Y. Hu, J. Dai and J. He, Positioning tracking method, device, terminal equipment and computer readable storage medium, *CN Patent No. ZL 2018 1 0891134.5*, granted on June 8, 2021.
- Y. Hu, J. Dai and J. He, Interactive display method, device, terminal equipment and storage medium, CN Patent No. ZL 2018 1 0804421.8, granted on May 11, 2021.
- W. Li and J. Dai, Controller, control system and control method thereof, CN Patent No. ZL 2017 1 1445571.6, granted on April 20, 2021.
- Y. Yin, J. Dai and J. He, Virtual object display method and device, terminal equipment and storage medium, CN Patent No. ZL 2018 1 0632329.8, granted on March 26, 2021.
- J. Dai and J. He, Interaction method, equipment and system, CN Patent No. ZL 2017 1 0294577.1, granted on January 12, 2021.
- J. He, J. Dai, C. Wan and Y. Hu, Stripe set search method, device, and system, CN Patent No. ZL 2016 8 0003226.4, granted on January 5, 2021.
- J. He, J. Dai, C. Wan and Y. Hu, Stripe set search method, device, and system, *CN Patent No. ZL 2016 8 0003225.X*, granted on November 27, 2020.
- J. He, J. Dai, T. Zhu and C. Wan, Track the device of optical object, method and system, *CN Patent No. ZL 2015 8 0076323.1*, granted on November 27, 2020.
- S. Huang, J. Dai and J. He, Coordinate alignment method and system and virtual reality system, CN Patent No. ZL 2017 1 0278094.2, granted on October 30, 2020.
- S. Huang, J. Dai and J. He, Coordinate alignment method and system and virtual reality system, CN Patent No. ZL 2017 1 0278094.2, granted on October 30, 2020.
- G. Wang, J. Dai and J. He, Communication connection method, equipment and system, *CN Patent No. ZL 2017 1 0271885.2*, granted on April 21, 2020.
- X. Bu, J. Dai and J. He, Data processing method and related equipment, CN Patent No. ZL 2017 1 0273573.5, granted on February 7, 2020.
- J. He and J. Dai, A kind of action collection and feedback method and system based on stereoscopic vision, CN Patent No. ZL 2015 1 0442677.5, granted on August 3, 2018.
- J. Dai and J. He, A kind of gesture controller and a kind of virtual reality system, *CN Patent No. ZL 2014 1 0329067.X*, granted on November 10, 2017.

INVITED TALKS

2022

- Metaverse: From Interaction Perspective (in Chinese), Cloud-Device Immersive Computing Forum, China National Computer Congress, Guiyang, China, December 2022.
- Mixed Reality: Connecting the Physical and Digital Worlds (in Chinese), Tencent Cloud Heterogeneous Computing Workshop, Shenzhen, China, December 2022.
- Metaverse: From Interaction Perspective (in Chinese), The 2022 World Conference on Display Industry, Chengdu, China, December 2022.
- Virtual Reality Application for Training and Emergency Response (in Chinese), *Huatai Securities Workshop*, *Shenzhen*, *China*, November 2022.
- Mixed Reality: Connecting the Physical and Digital Worlds (in Chinese), Sealand Securities Annual Strategy Meeting, Ningbo, China, September 2022.
- The Metaverse and the Chinese Labor Problem (in Chinese) The 2nd Shanghai Forum on Chinese Political Economy Research, Shanghai, China, September 2022.
- 5G+XR: Starting a New Era of Virtual and Real Fusion Applications (in Chinese), Glodon Technology Workshop, Guangzhou, China, May 2022.
- Mixed Reality: Connecting the Physical and Digital Worlds (in Chinese), Qualcomm IoT Technical Open Day, Beijing, China, March 2022.
- Metaverse: Open a New World of Virtual and Real Symbiosis (in Chinese), *Hongtai Bole Forum*, *Guangzhou*, *China*, March 2022.

2021

- Mixed Reality: Technology Innovation in Industrial Application (in Chinese), APSARA, Alibaba Group, Hangzhou, China, October 2021.
- Mixed Reality: Technology Innovation in Industrial Application (in Chinese), Aliyun Workshop of Visual Computing, Guangzhou, China, September 2021.
- Ximmerse Rhino X with Nvidia CloudXR, Extending the Boundary of Mixed Reality Simulation Training (in Chinese), Nvidia Joint Webinar with Local Partners, May 2021.

2020

- Mixed Reality: Starting from Spatial Interaction (in Chinese), Shanghai Jiao Tong University, Shanghai, China, November 2020.
- Mixed Reality: Starting from Spatial Interaction (in Chinese), Sichuan University, Chendu, China, October 2020.
- Mixed Reality: Creating a New World by Spatial Interaction (in Chinese), China International Optoelectronic Conference, Shenzhen, China, August 2020.
- Mixed Reality Interaction: Leading the New Trend of Off-line Entertainment, World Conference on VR Industry, Nanchang, China, October 2020.

2019

- Augmented Reality: From Interaction Perspective, ARUP Workshop, Hong Kong, China, September 2019.
- Augmented Reality: From Interaction Perspective (in Chinese), China International Optoelectronic Conference, Shenzhen, China, September 2019.
- Augmented Reality: Connecting Everything (in Chinese), Bluetooth Asia, Shenzhen, China, May 2019.
- Augmented Reality: Interaction and Connection, School of Software, Shanghai Jiao Tong University, Shanghai, China, April 2019.
- Augmented Reality: Interaction and Connection, Department of Computer Science, University of North Carolina at Chapel Hill, NC, USA, January 2019.

2018

- Augmented Reality: Interaction and Connection (in Chinese), OmniVision Technologies New Products Global Launch, Shanghai, China, October 2018.
- Augmented Reality: From Gaming Perspective (in Chinese), The 15th Game Development and Operations Conference (GDOC'18), Tencent Interactive Entertainment Group (IEG), Shenzhen, China, June 2018.
- Augmented Reality: Interaction and Connection, Flex Shanghai Design and Innovation Center Opening Ceremony, Shanghai, China, June 2018.
- Augmented Reality: Interaction and Connection (in Chinese), Bluetooth Asia, Shenzhen, China, May 2018.

2017

• New Era of Augmented Reality, OmniVision Technologies New Products Global Launch, Shanghai, China, October 2017.

2016

- Mobile VR Input Platform, Samsung Research America, Mountain View, CA, USA, June 2016.
- Virtual Reality: From Input Perspective, Clear Water Bay Forum, Hong Kong University of Science and Technology, Hong Kong, China, June 2016.

2015

- VR Interaction and Development Trends, Future Information Technology International Forum for Young Scholars (SIFYS), Shanghai Jiao Tong University, Shanghai, China, October 2015.
- VR Development From Input Perspective, School of Computer Science and Engineering, Nanjing University of Science and Technology, Nanjing, China, October 2015.

Honors & Awards

Peacock Plan (Level C) of Shenzhen	2016
$\mathrm{FY}14/15$ Excellent Performance Employee of Lenovo R&T	2015
$\mathrm{FY}14/15$ Outstanding Team Award (Super Camera) of Lenovo R&T	2015
FY14/15 1H Excellent Performance Employee of Lenovo R&T	2014
$\mathrm{FY}14/15$ 1H Excellent Project Team (Super Camera) of Lenovo R&T	2014
Individual Instant Award of Lenovo R&T	2014
Postgraduate Fellowship of The Chinese University of Hong Kong	2009-2012
Excellent Student of Shanghai Jiaotong University	2008
Kwang-Hua Scholarship of Shanghai Jiaotong University	2008
Excellent League Member of Shanghai Jiaotong University	2007
JIDIAN Electronics Technology Scholarship of Shanghai Jiaotong University	y 2007