Taizhou Chen (陳泰舟)

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RESEARCH INTERESTS

Human-Computer Interaction, Sensing Technology, Applied Machine Learning

EDUCATION

City University of Hong Kong PhD in Creative Media, Supervisor: Dr. Kening Zhu, Co-supervisor: Prof. Hongbo Fu	HongKong, China Sept. 2018 – Oct. 2022
City University of Hong Kong	HongKong, China
MA in Creative Media, GPA: 3.81/4.0, with Distinction	Sept. 2016 - Oct. 2017

EXPERIENCE

Shantou University Department of Computer Science, Assistant Professor	Shantou, China Dec. 2022 – Now
City University of Hong Kong School of Creative Media, Research Assistant	HongKong, China Aug. 2021 – Aug. 2022
Huawei Technologies Co., Ltd. HMI Lab, Research Engineer Intern	Shenzhen, China Oct. 2020 – Apr.2021
Tsinghua University Visiting Student, Supervisor: Dr. Chun Yu	Beijing, China <i>Dec. 2019 – Apr. 2020</i>
City University of Hong Kong School of Creative Media, Research Assistant	HongKong, China Jan. 2017 - Aug. 2018

Publications

IMWUT / UbiComp 2023	Taizhou Chen, Tianpei Li, Xingyu Yang, Kening Zhu. 2022. EFRing: Enabling Thumb-to-Index-Finger Microgesture Interaction through Electric Field Sensing using Single Smart Ring. Proc. ACM Interact. Mob. Wearable Ubiquitous Technol. 6, 4, Article 161 (December 2022), 31 pages. https://doi.org/10.1145/3569478
MTA	Taizhou Chan Kaning Thu Ming Chiah Vang Doop Learning Resed Unahtrusiya

Taizhou Chen, Kening Zhu, Ming Chieh Yang. Deep-Learning-Based Unobtrusive Handedness Prediction for One-Handed Smartphone Interaction. Multimed Tools Appl (2022). ISSN: 1573-7721 https://doi.org/10.1007/s11042-021-11844-6

Taizhou Chen, Lantian Xu, Kening Zhu. FritzBot: A Data-Driven Conversational Agent for Physical-Computing System Design, in International Journal of Human-Computer Studies, Volume 155, November 2021, ISSN: 1071-5819 https://doi.org/10.1016/j.ijhcs.2021.102699

Taizhou Chen, Lantian Xu, Xianshan Xu and Kening Zhu, GestOnHMD: Enabling Gesture-Based Interaction on Low-Cost VR Head-Mounted Display, in IEEE Transactions on Visualization and Computer Graphics, ISSN: 1941-0506, doi: 10.1109/TVCG.2021.3067689.

Zhiyi Rong, Ngo Fung Chan, **Taizhou Chen**, Kening Zhu. CodeRhythm: A Tangible Programming Toolkit for Visually Impaired Students. In Proceedings of Asian CHI Symposium 2020, ACM CHI 2020. Best Paper Award.

MTA

IJHCS

TVCG / IEEE VR 2021

CHI Symposium 2020

HCII 2020

Arshad Nasser, Taizhou Chen, Can Liu, Kening Zhu, P. V. M. Rao. 2020. FingerTalkie: Designing A Low-Cost Finger-Worn Device for Interactive Audio Labeling of Tactile Diagrams. In Proceedings of International Conference on Human-Computer Interaction (HCI International) 2020. Springer, Cham.

HCII 2020

Zhiyi Rong, Ngo Fung Chan, Taizhou Chen, Kening Zhu. Toward Inclusive Learning: Designing and Evaluating Tangible Programming Blocks for Visually Impaired Students. In Proceedings of International Conference on Human-Computer Interaction (HCI International) 2020. Springer, Cham.

INTERACT 2019

Taizhou Chen, Yi-Shiun Wu, and Kening Zhu. DupRobo: Interactive Robotic Autocompletion of Physical Block-Based Repetitive Structure. In Proceedings of the 17th IFIP TC.13 International Conference on Human-Computer Interaction (INTERACT 2019). Springer-Verlag, Berlin, Heidelberg, 19 pages.

IJHCS

Kening Zhu, Simon Perrault, Taizhou Chen, Shaoyu Cai, Roshan Lalintha A Sense of Ice and Fire: Exploring Thermal Feedback with Multiple Thermoelectric-Cooling Elements on A Smart Ring. International Journal of Human-Computer Studies. Volume 130, 2019, Pages 234-247, ISSN 1071-5819, https://doi.org/10.1016/j.ijhcs.2019.07.003.

CHI 2019

Kening Zhu, Taizhou Chen, Feng Han, and Yi-Shiun Wu. 2019. HapTwist: Creating Interactive Haptic Proxies in Virtual Reality Using Low-Cost Twistable Artefacts. In CHI Conference on Human Factors in Computing Systems Proceedings (CHI 2019), May 4–9, 2019, Glasgow, Scotland UK. ACM, New York, NY, USA, 13 pages. https://doi.org/10.1145/3290605.3300923.

VRST 2018

Taizhou Chen, Yi-Shiun Wu, and Kening Zhu. 2018. Investigating Different Modalities of Directional Cues for Multi-Task Visual-Searching Scenario in Virtual Reality. In VRST 2018: 24th ACM Symposium on Virtual Reality Software and Technology (VRST '18), November 28 - December 1, 2018, Tokyo, Japan. ACM, New York, NY, USA, 6 pages. Acceptance Rate: 22%.

Extended Abstracts

CHI 2020

Taizhou Chen. 2020. Facilitating Physical-Computer System Design through Data-Driven Natural-Language Interaction. In Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems (CHI '20). Association for Computing Machinery, New York, NY, USA, 1-6.DOI:https://doi.org/10.1145/3334480.3381442.

SIGGRAPH Asia 2018 Kening Zhu, Taizhou Chen, Shaoyu Cai, Feng Han, and Yi-Shiun Wu. 2018. Demo - HapTwist: Creating Interactive Haptic Proxies in Virtual Reality Using Low-Cost Twistable Artefacts. In Proceedings of SA '18 Virtual and Augmented Reality. ACM, New York, NY, USA, 2 pages.

SIGGRAPH Asia 2017 Taizhou Chen, Yi-Shiun Wu, Feng Han, Baochuan Yue, and Kening Zhu. 2017. DupRobo: An Interactive Robotic Platform for Physical Block-Based Autocompletion. In SIGGRAPH Asia 2017 Posters (SA '17). Association for Computing Machinery, New York, NY, USA, Article 19, 1–2. DOI:https://doi.org/10.1145/3145690.3145708.

SIGGRAPH Asia 2017 Taizhou Chen, Junyu Liu, Kening Zhu, and Tamas Waliczky. 2017. The Golden Guardian: Multi-Sensory Immersive Gaming through Multi-Sensory Spatial Cues. In SIGGRAPH Asia 2017 VR Showcase (SA '17). ACM, New York, NY, USA, Article 12, 2 pages. DOI: https://doi.org/10.1145/3139468.3139473. Acceptance rate: 25%.

PATENTS

2021	Kening Zhu, Taizhou chen , Xu Lantian, Xu Xianshan, A Human-Interface-Device (HID) And A Method for Controlling An Electronic Device Based on Gestures, And A Virtual-reality (VR) Head-mounted Display Apparatus. (Accepted/In press/Filed) Priority No. 17/369,020
2021	Kening Zhu, Taizhou chen , Xu Lantian, Computerized Method of Composing A System for Performing A Task. (Accepted/In press/Filed) Priority No. 17/644,662
2020	Kening Zhu, Feng Han, Taizhou chen , Yi-Shiun Wu, Systems and Methods for Creating Haptic Proxies for Use in Virtual Reality. Patent No. US20200341538A1. Publication date: 29 Oct 2020.

AWARD

Geneva International Exhibition of Inventions Bronze medal	2022
The Outstanding Academic Performance Award for Research Degree Students Academic year 2020 - 21, City University of Hong Kong	2021
Best Paper Award Asian CHI Symposium 2020, ACM	2020
Research Tuition Scholarship Academic year 2020 - 21, City University of Hong Kong	2020
The Outstanding Academic Performance Award for Research Degree Students Academic year 2018 - 19, City University of Hong Kong	2019

Professional Service

Working Committee

ICACHI Blue Book for China Human-Computer Interaction Educational Development in 2022 ICACHI 2022中国人机交互发展蓝皮书工作委员会

PC Member

IEEE International Conference on Artificial Intelligence and Virtual Reality (AIVR) 2020/2021

Reviewer

ACM CHI Conference on Human Factors in Computing Systems 2019/2020/2021/2022/2023
The Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT) 2022
ACM SIGGRAPH 2022

ACM SIGGRAPH Asia 2018/2020/2021,

IEEE Conference on Virtual Reality and 3D User Interfaces (IEEE VR) 2020/2021

IEEE International Symposium on Mixed and Augmented Reality (ISMAR) 2022

The ACM International Conference on Mobile Human-Computer Interaction (MobileHCI) 2020/2023

ACM International Conference on Multimodal Interaction (ICMI) 2020/2021

ACM Interactive Surfaces and Spaces Conference (ISS) 2020/2021/2022

ACM Conference on Intelligent User Interfaces (IUI) 2020/2021/2022

ACM Spatial User Interaction (SUI) 2020

ACM International Symposium on Wearable Computers (ISWC) 2018

International Symposium of Chinese CHI (Chinese CHI) 2022/2023

Annual Conference on Tangible Embedded and Embodied Interaction 2023

TALK

Multimodal and Embodied User Interface for Natural Human-Computer Interaction

• Invited Speaker, Department of Computer Science, Shantou Univ. May. 2023, Shantou, China

GestOnHMD: Enabling Gesture-based Interaction on Low-cost VR Head-Mounted Display

- Graphics And Mixed Environment Symposium (GAMES) Sept. 2021, Online
- IEEE VR Conference Presentation Mar. 2021, Online

DupRobo: Interactive Robotic Autocompletion of Physical Block-based Repetitive Structure

• INTERACT 2019 Sept. 2019, Paphos, Cyprus

HapTwist: creating interactive haptic proxies in virtual reality using low-cost twistable artefacts

• CHI 2019 May. 2019, Glasgow, UK

Investigating different modalities of directional cues for multi-task visual-searching scenario in virtual reality

• VRST 2018 Dec. 2018, Tykyo, Japan

DupRobo: an interactive robotic platform for physical block-based autocompletion

• SIGGRAPH Asia 2017 Dec. 2017, Bangkok, Thailand

TEACHING

Teaching Assistant

SM1103A Introduction to Media Computing 2018/19 Semester A

2019/20 Semester A

Lecturer

CS4187 Computer Vision for Interactivity 2018/19 Semester A

2019/20 Semester A 2020/21 Semester A

2023/05/11 updated