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	HongKong, China
PhD in Creative Media, Supervisor: Dr. Kening Zhu, Co-supervisor: Prof. Hongbo Fu	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

City University of Hong Kong	HongKong, China
Research Assistant	$Aug.\ 2021-Aug.\ 2022$
Huawei Technologies Co., Ltd.	Shenzhen, China
Research Engineer Intern	$Oct.\ 2020-Apr.2021$
Tsinghua University	Beijing, China
Visiting Student, Supervisor: Dr. Chun Yu	$Dec.\ 2019-Apr.\ 2020$
City University of Hong Kong	HongKong, China
Research Assistant	$Jan. \ 2017 - Aug. \ 2018$

PUBLICATIONS

IMWUT /	Taizhou Chen, Tianpei Li, Xingyu Yang, Kening Zhu. 2022. EFRing: Enabling
UbiComp 2023	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 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

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

TVCG /	Taizhou Chen, Lantian Xu, Xianshan Xu and Kening Zhu, GestOnHMD: En-
${f IEEE\ VR\ 2021}$	abling 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.

CHI Symposium 2020	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.

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 Auto completion 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 202, 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

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 (ChineseCHI) 2022/2023

Annual Conference on Tangible Embedded and Embodied Interaction 2023

Talk

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

$DupRobo:\ an\ interactive\ robotic\ platform\ for\ phyiscal\ block-based\ autocompletion$

• 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

2022/11/10 updated