Mr. Chengshuo Xia

Nationality: Chinese
Tel: 080-8808-9527 **Email:** csxia@keio.jp

EDUCATION

2019.09 ~ Keio University (Postgraduate-Ph.D), Computer science; (advisor: **Yuta Sugiura)**

2019.06. Xidian University (Master), Controlling theory and controlling engineering

2018.09. **Loughborough University** (Msc.), Electronic and electrical engineering

2016.06, **Xi'an University of Technology** (Bachelor), Automation.

PROFESSIONAL EXPERIENCES

- 2021.05 ~ UCLA, HiLab, **Visiting student** (Remotely), (advisor: Yang Zhang)
- 2020.11 ~ 2022.09 National Institute of Advanced Industrial Science and Technology (AIST), **Research Assitant**
- 2019.9 ~ 2021.03 Japan Science and Technology Agency (JST) PRESTO Project, **Research Assistant**

PUBLICAITONS

Journal papers:

[5] **Chengshuo Xia*,** Ayane Saito***,** Yuta Sugiura. Using the Virtual Data-driven Measurement to Support the Prototyping of Hand Gesture Recognition Interface with Distance Sensor. *Sensors and Actuators A: Physical.* (accepted) (* authors contribute equally)

[4] **Chengshuo Xia,** Yuta Sugiura**.** Wearable Accelerometer Layout Optimization for Activity Recognition Based on Swarm Intelligence and User Preference. *IEEE Access,* 9,166906 - 166919

[3] **Chengshuo Xia,** Yuta Sugiura**.** Optimizing Sensor Position with Virtual Sensor in Human Activity Recognition System Design. *Sensors*, 21, (20), 6893

[2] **Chengshuo Xia**, Daxing Zhang, Witold Pedrycz, Yingmin Zhu and Yongxian Guo. Models for Microbial Fuel Cells: A critical review. *Journal of Power Sources*. 373(2018):119 131 (IF= 9.127).

[1] **Chengshuo Xia**, Daxing Zhang, Witold Pedrycz, Kangqi Fan and Yongxian Guo. Human Body Heat Based Thermoelectric Harvester with Ultra-Low Input Power Management System for Wireless Sensors Powering. *Energies*. 12.20(2019): 3942.

Conference papers:

[2] **Chengshuo Xia**, Yuta sugiura. Wearable Accelerometer Optimal Positions for Human Motion Recognition. IEEE 2nd Global Conference on Life Sciences and Technologies (LifeTech), Kyoto, 2020.

[1] **Chengshuo Xia**, Yuta sugiura. A Study of Wearable Accelerometers Layout for Human Activity Recognition. Asian CHI Symposium 2020. **(Best paper award).**

Poster and Extended Abstract:

[3] **Chengshuo Xia,** XinRui Fang and Yuta Sugiura. "VoLearn: An Operable Motor Learning System with Audiotory Feedback".In The Adjunct Publication of the 34th Annual ACM Symposium on User Interface Software and Technology (UIST '21 Adjunct), October 10–14, 2021 (CCF B)

[2] **Chengshuo Xia**. Optimal Sensor Position: Exploring the Interface Between the User and Sensor in Activity Recognition System. ACM CHI Extended Abstract. 2021. (CCF A)

[1] **Chengshuo Xia**, Yuta Sugiura**.** From Virtual to Real World: Applying Animation to Design the Activity Recognition System. ACM CHI Extended Abstract. 2021. (CCF A)

Domestic Conference (Japanese):
[1] 加藤花歩, <u>Chengshuo Xia</u>, 杉浦裕太. 顔画像情報を利用した運動識別システム. エンタテインメントコンピューティングシンポジウム 2020 論文集. **(Best paper award).**

ACADEMIC SERVICE

PC member:
CHI 2022 Late-breaking work

Reviewer:
IEEE Sensors Journal/IEEE Access/Scientific Reports
ACM IMWUT/ISS/DIS/Ubicomp/ICMI/VRST/CHI/SUI

AWARDS

Year	Award
2020	EC2020. 最優秀論文賞
2020	Asian CHI Symposium. Best Paper Award
2020	
2018	Outstanding Postgraduate of Xidian University
2018	China National Scholarship for Postgraduate
2016	Outstanding Graduate of XAUT
2015	TI Cup, National Undergraduate Electronic Design Contest: The Third Prize

INVITED TALK

• 2021.03. The Application of Virtual Sensor with Human Activity Recognition in Human-Computer Interaction. (Chinese). IWHEC Human-Technology-Future, Forum

Reference

• **Yuta Sugiura**, Associate Professor
  Faculty of Science and Technology, Keio University, Japan

• **Mitsunori Tada**, Group Director
  Artificial Intelligence Research Center, Digital Human Research Group
  National Institute of Advanced Industrial Science and Technology (AIST), Japan

• **Yang Zhang,** Assistant Professor
  University of California, Los Angeles, USA