Jianqiang Chen

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Date of Birth: 6 May 1998; Place of Birth: Sanmenxia, China

EDUCATION

September 2013 – June 2016

High School's degree

Xi'an Gaoxin No.1 High School
Tangyan Road No.23, Gaoxin District, Xi'an, P.R.China

September 2016 – June 2020

Bachelor's degree in Measurement and Control Technology and Instrument

Department of Precision Instrument, Tsinghua University
Haidian District, Beijing, 100084, P.R.China
www.tsinghua.edu.cn/en/
010-62793001

- GPA: 3.42/4.00

September 2017 – June 2020

Second Bachelor's degree in Economics

School of Economics and Management, Tsinghua University

September 2020 – June 2023

Master's degree in Electronic and Information Engineering

Department of Precision Instrument, Tsinghua University

- GPA: 3.62/4.00
- Laboratory: Engineering Research Center for Navigation Technology
- Thesis: Research on Pedestrian Navigation Technology Based on Multi-node Sensors
- Supervisor: Associate Professor Meifeng Guo

September 2023 – present

Doctoral degree candidate in Precision Engineering

Department of Precision Engineering, The University of Tokyo
7-3-1, Hongo, Bunkyo-Ku, Tokyo, Japan
www.u-tokyo.ac.jp/en/

- Laboratory: Mobile Robotics Laboratory
- Supervisor: Professor Jun Ota

RESEARCH EXPERIENCE

October 2017 – September 2018

Pressure sensor and displacement sensor based on paper

Department of Precision Instrument, Tsinghua University

- Design sensors that use conductive coatings to detect displacement and stress

November 2018 – March 2019

Microsphere cleaning device for biological detection

School of Medicine, Tsinghua University

- Simulate the flow of fluid in cleaning device with Comsol
- Design a software for the cleaning device to help users control system

March 2020 – August 2023

Pedestrian navigation

Department of Precision Instrument, Tsinghua University
Engineering Research Center for Navigation Technology

- Embedded system of pedestrian navigation
- Pedestrian motion state recognition algorithm
- Establishment of pedestrian motion state database

September 2023 – present

Nursing Education System

Department of Precision Engineering, The University of Tokyo
Mobile Robotics Laboratory

- Build nursing education system to help educate nurses how to treat patients
- otalab.race.t.u-tokyo.ac.jp/en/

ADDITIONAL INFORMATION

Publication

X. Zhao, C. Wang, J. Chen, B. Zhou and R. Zhang, "Design of miniaturized MEMS gyro north finder based on two-phase axial flux PMSM," 2022 IEEE International Instrumentation and Measurement Technology Conference (I2MTC), 2022, pp. 1-6, doi: 10.1109/I2MTC48687.2022.9806647.

J. Chen, J. Zhu and M. Guo, "An SVM-Based Pedestrian Gait Recognition Algorithm Using a Foot-Mounted IMU," 2022 IEEE 5th International Conference on Electronics Technology (ICET), 2022, pp. 1085-1090, doi: 10.1109/ICET55676.2022.9825019.

J. Chen, G. Liu, and M. Guo, "Data Fusion of Dual Foot-Mounted INS Based on Human Step Length Model," Sensors, vol. 24, no. 4, Art. no. 4, Jan. 2024, doi: 10.3390/s24041073.

Patent

"A pedestrian action recognition algorithm, system, processing equipment and storage medium". CN Patent application 202111401775.6, filed November 2021. Patent Pending.

"A horizontal attitude measurement method, system, processing equipment and storage medium". CN Patent application 202111373775.X, filed November 2021. Patent Pending.

Languages

English - TOEFL: 105

Current Scholarship

The University of Tokyo Felloship

Interests and Hobbies

Basketball, Computer Game, Hiking

Travel history

South Korea(October 2018); Thailand(April 2019); Japan(January 2020);