Zhoumiao He

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my github page
my personal page

EDUCATION

Sichuan University
B.E. of Software Engineering   *2017.09-2021.06*
- GPA: 3.74/4

Sichuan University
Ph.D. of Software Engineering   *since 2021.09*
- Advisor: Prof. Jianwei Zhang

RESEARCH INTERESTS

- Three-dimensional Topography; Complex Surface Characterization; Computational Imaging

PUBLICATIONS

- **Z. He**, P. Zhou, J. Zhu, and J. Zhang, "Improved shape-from-focus reconstruction for high dynamic range freedom surface," Optics and Lasers in Engineering, vol. 170, p. 107784, 2023.
- J. Zhu, C. Zhu, P. Zhou, **Z. He** and D. You, "An Optimizing Diffusion Kernel-Based Binary Encoding Strategy With Genetic Algorithm for Fringe Projection Profilometry," in IEEE Transactions on Instrumentation and Measurement, vol. 71, pp. 1-8, 2022, Art no. 7003708, doi: 10.1109/TIM.2022.3168900.

EXPERIENCES AND AWARDS

research experiences
- Majoring in software engineering, proficient in programming languages. Research focus is on **multimedia technology**, with studies in imaging principles and techniques, digital image processing, and computer graphics   *2017-2019*
- Participated in the **Internet of Things(IoT) and AI** Summer School at Ulster University (UK) and studied topics including machine learning, neural networks, and IoT devices   *2019.08*
- Utilized **deep learning** to perform feature learning and processing on digital images, digital audio, and video files. Implemented applications such as infant speech demand analysis, sleep posture detection, and AI-based automated grading   *2020*
- **Conducted research on three dimensional-measurement, including techniques like Fringe Projection Profilometry (FPP) and Shape from Focus(SFF). Aimed to study measurement methods for high-dynamic microstructures with complex surface topography**.   *2021-2023*

competitions
- **National Third Prize** of the 13th National Student Software Innovation Competition,   *2020.06*
- **National Second Prize** of the 11th China Student Service Outsourcing Competition,   *2020.08*
- **National Third Prize** of 2020 WeChat Small Program Application Development Competition,   *2020.08*
- **National Third Prize** and **Huawei Special Prize** of the "Huawei Cup" Third China Graduate Student Artificial Intelligence Innovation Competition [General Industrial Defect Detection Solution],   *2021.12.*

awards
- Outstanding Students of Sichuan University,   *2018.11*
- Outstanding Graduates of Sichuan Province,   *2021.04*

Teaching
- Teaching Assistant: Vitual System (311290010), Sichuan University, University Immersion Program   *2021*

SKILLS

Programming
- (commonly used) Matlab, Python, Java, C;
- (others) C++, JavaScript, Html/CSS