

WANG, Chongyu

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Education

- Zhejiang University (ZJU)** 2018.9-2022.7
Electrical and Computer Engineering—Bachelor of Engineering
Curriculum GPA: 3.79/4.00
- University of Illinois at Urbana-Champaign (UIUC)** 2018.9-2022.7
Electrical and Computer Engineering—Bachelor of Science
Curriculum GPA: 3.74/4.00

Publication

Liu Tianyu, Junyu Chang, Chongyu Wang, Liangjing Yang, *Specular Reflections Detection and Removal Based on Deep Neural Network for Endoscope Images*, accepted by 2021 43rd Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC).

Research Experience

- Specular Reflections Detection and Removal Based on Deep Neural Network for Endoscope Images**
Instructor: Prof. Liangjing Yang 2020.3-2021.7
- Aimed to detect and restore specular reflections caused by metal instruments or smooth tissue membrane during surgical operations based on Deep Neural Network.
 - Proposed a novel model based on deep learning framework, known as Surgical Fix Deep Neural Network (SFDNN), to detect the reflection points in a surgical video.
- Knowledge Extraction and Retrieval of Diesel Engine Event Report in Nuclear Power Plant Based on National Language Processing** 2020.3-present
Project leader of this National Student Research Training Program, Instructor: Prof. Hongwei Wang
- Built a nuclear corpus based on the diesel-related event reports provided by Qinshan Nuclear Power Station.
 - Proposed a novel statistics-based Chinese keyphrase extraction model.
 - Plan to build a search engine system for event reports based on the extracted keyphrase.

Course Experience

- Teaching Assistant** 2021.9-present
Teaching Assistant in Computer Systems & Programming Course
- Working with Prof. Pavel Loskot and Prof. Steve Lumetta
- Bomberman Game Based on FPGA** 2020.8-2021.1
Digital Systems Laboratory Course Final Project, Instructor: Prof. Chushan Li
- Used Intel FPGA development board and Quartus to develop a Bomberman game.
 - The main logic of the game and interfaces was written by SystemVerilog.
- The Basic Implementation of Operating System based on x86 architecture** 2021.1-2021.5
Computer Systems Engineering Course Final Project, Instructor: Prof. Steven S. Lumetta
- Implemented the real-time clock (RTC) and its virtualization, created a terminal driver to handle the keyboard input, wrapped System Call, and allocated memory and implement paging, including initialization of paging and map the virtual and physical address during scheduling.

Honors & Awards

- Second Prize of The 11th Chinese Mathematics Competitions 2019.12