Yubo Huang

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Education

Laurentian University Sep 2023 – Present
Master of Science in Computational Sciences - Course based Sudbury, Ontario, Canada

Beijing University of Posts and Telecommunications Sep 2020 – Jun 2023
Master of Engineering in Materials Science and Engineering Beijing, China

- Advised by Prof. Zhaofeng He, Prof. Peipei Li, and Prof. Liuyu Xiang.
- GPA 3.79/4, Academic Scholarship 2022, 2021, and 2020
- Computer Science Courses: Java Programming 84, Advanced Operating Systems 90, Natural Language Processing and Applications 87, Data Mining Experiment 80, and AI Computing Systems 92

Beijing University of Posts and Telecommunications Sep 2016 – Jun 2020
Bachelor of Science in Applied Physics Beijing, China

- GPA 76.86/100, Rank 43/55
- Computer Science Courses: The C Programming Language 80, Data Structures 74, Computational Physics and Practice 81, and Scientific Computing and Fortran 91

Publications

Yubo Huang, Jia Wang, Peipei Li, Liuyu Xiang, Peigang Li, and Zhaofeng He. Generative Iris Prior Embedded Transformer for Iris Restoration. In 2023 IEEE International Conference on Multimedia and Expo (**ICME**), Brisbane, Australia, 2023 (**Oral**).

- Proposed an iris restoration method called Gformer, a U-shaped network with an encoder-decoder structure. Connected the encoder and the decoder with the iris feature modulator.
- Employed Transformer blocks in the encoder, pretrained generative iris prior, and embedded it to the decoder.
- Conducted extensive experiments whose results showed that our Gformer outperforms state-of-the-art methods for restoring iris images that suffered complex degradation and improving recognition performance.

Internship Experience

New Studios Media Group, Inc. Jan 2021 – Mar 2021
Test Intern, Entertainment Team Beijing, China

- Detected software vulnerabilities.

Student Work

Beijing University of Posts and Telecommunications Sep 2018 – Apr 2019
Member of The Folk Orchestra, High-level Art Troupe Beijing, China

- Played the Erhu, a traditional Chinese instrument.

Beijing University of Posts and Telecommunications Sep 2018 – Dec 2018
Captain of School of Science and School of Cyberspace Security Basketball Team Beijing, China

- Led the team to train and compete.

Beijing University of Posts and Telecommunications Sep 2017 – Jun 2018
Deputy Minister of Art, Student Union, School of Science Beijing, China

- Choreographed and directed a drama representing School of Science.
- Recruited and organized the School of Science Choir.
- Organized School of Science Singer Competition.

Skills

Programming Languages: Python, Java, C, Fortran, HTML, CSS, JavaScript
Tech Skills: Image Restoration, Iris Recognition, Web Application Development