

Yubo Huang

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Education

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| Laurentian University
MSc Computational Sciences - Course based | September 2023 – Present
Sudbury, Ontario, Canada |
| Beijing University of Posts and Telecommunications
Master of Engineering in Materials Science and Engineering <ul style="list-style-type: none">Advised by Prof. Zhaofeng He, Prof. Peipei Li, and Prof. Liuyu Xiang.GPA 3.79/4, Academic Scholarship 2022, 2021, and 2020Computer Science Courses: Java Programming 84, Advanced Operating Systems 90, Natural Language Processing and Applications 87, Data Mining Experiment 80, and AI Computing Systems 92 | September 2020 – June 2023
Beijing, China |
| Beijing University of Posts and Telecommunications
Bachelor of Science in Applied Physics <ul style="list-style-type: none">GPA 76.86/100, Rank 43/55Computer Science Courses: The C Programming Language 80, Data Structures 74, Computational Physics and Practice 81, and Scientific Computing and Fortran 91 | September 2016 – June 2020
Beijing, China |
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Publications

- Yubo Huang**, Jia Wang, Peipei Li, Liuyu Xiang, Peigang Li, and Zhaofeng He. Generative Iris Prior Embedded Transformer for Iris Restoration. 2023 IEEE International Conference on Multimedia and Expo (ICME), Brisbane, Australia, 2023, pp. 510-515, doi: 10.1109/ICME55011.2023.00094.
- 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.
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Internship Experience

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| New Studios Media Group, Inc.
Test Intern, Entertainment Team <ul style="list-style-type: none">Detected and located software vulnerabilities and maintained documentation and servers. | January 2021 – March 2021
Beijing, China |
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Student Work

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| Beijing University of Posts and Telecommunications
Member of The Folk Orchestra, High-level Art Troupe <ul style="list-style-type: none">Played the Erhu, a traditional Chinese instrument. | September 2018 – April 2019
Beijing, China |
| Beijing University of Posts and Telecommunications
Captain of School of Science and School of Cyberspace Security Basketball Team <ul style="list-style-type: none">Led the team to train and compete. | September 2018 – December 2018
Beijing, China |
| Beijing University of Posts and Telecommunications
Deputy Minister of Art, Student Union, School of Science <ul style="list-style-type: none">Choreographed and directed a drama representing School of Science.Recruited and organized the School of Science Choir.Organized School of Science Singer Competition. | September 2017 – June 2018
Beijing, China |
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Skills

Programming Languages: Python, Java, C, Fortran, HML, CSS, JavaScript
Tech Skills: Image Restoration, Iris Recognition, Web Application Development
English Language Proficiency: IELTS 6.0 (08/JAN/2023), International Language Academy of Canada (ILAC) level 17