DONG HUO

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Targeting an internship position in Summer/Fall 2022

EDUCATION

University of Alberta, Canada *Sept 2018 - Now*
Ph.D., Computing Science

Harbin Institute of Technology, China *Sept 2014 - Jun 2018*
B.Eng., Software Engineering

RESEARCH INTERESTS

Image Restoration (Deblurring, Super-Resolution, Denoising, Hyperspectral Reconstruction), Image Segmentation, Multi-modal Fusion, Structured Light, Medical Image Processing.

WORK EXPERIENCE

Computer Graphics Lab, University of Alberta *Jun 2019 - Now*
Advisor: Prof. Herb Yang
Title: Research Assistant
Research topics: Image Processing (Deblurring, Super-Resolution, Denoising), and Hyperspectral Image Reconstruction

Quicktron Robotics, China *Jul 2016 – Aug 2016*
Advisor: Lei Luo
Title: Algorithm Engineer Internship
Research topics: Time-sequence Prediction

TEACHING EXPERIENCE

CMPUT 174 - Introduction to the Foundations of Computation I, University of Alberta *Fall 2018 - Fall 2021*
Instructor: Sadaf Ahmed
Title: Teaching Assistant
Teaching topics: Python, Pygame

CMPUT 175 - Introduction to the Foundations of Computation II, University of Alberta *Winter 2019 - Winter 2022*
Instructor: Osmar Zaiane
Title: Teaching Assistant
Teaching topics: Python, Data Structure

TECHNICAL SKILLS

Programming: Python, Pytorch, TensorFlow
Software : Latex, PyCharm

PUBLICATIONS

1. **Dong Huo**, Abbas Masoumzadeh, Herb Yang, "Blind Non-Uniform Motion Deblurring using Atrous Spatial Pyramid Deformable Convolution and Deblurring-Reblurring Consistency", in the IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshop (CVPRW), 2022
2. **Dong Huo**, Abbas Masoumzadeh, Rafsanjany Kushol, Herb Yang, "Blind Image Deconvolution Using Variational Deep Image Prior", in the IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2022 (Under Review)
3. **Dong Huo**, Jian Wang, Yiming Qian, Herb Yang, "Glass Segmentation with RGB-Thermal Image Pairs", in the IEEE Transactions on Image Processing (TIP), 2022 (Under Review)

4. **Dong Huo**, Herb Yang, "Blind Image Super-Resolution with Spatial Context Hallucination", Arxiv, 2020
5. Rafsanjany Kushol, Abbas Masoumzadeh, **Dong Huo**, Sanjay Kalra, Herb Yang, "ADDFormer: Alzheimer's Disease Detection from structural MRI using Fusion Transformer", in the IEEE International Symposium on Biomedical Imaging (ISBI), 2022

PATENT

1. Tonghua Su, Bin Li, **Dong Huo**, "High Efficient Method and System for Tumor labeling on Medical Image", China patent CN2018107992792.
2. Tonghua Su, Lijuan Yu, **Dong Huo**, "Deep-learning-Based System for Diagnostic report Generation from Medical Image", China patent CN2018107589994.

AWARD

- Honorable Mention of American Mathematical Modeling Contest 2017
- The First Prize of the National Mathematical Modeling Contest of Heilongjiang Province 2016
- The Second Prize of National Undergraduate IOT Design Contest in Northeastern China Division 2015